1. Horizon Linux Multi-Session Farms

Linux can and has been a fundamental platform for developers to work from. From a licensing perspective, in many cases organization like to keep costs down in favour and would then consider Linux as an alternative. The Linux integration with VMware Horizon is not well documented. Like the Windows Operating system where we have both Virtual Desktop infrastructure and RDS Published applications, Linux too has a Virtual Desktop and Application based offering. In this session we will look at the RDS equivalent of Linux, that being Linux Multi-Session. One of the objectives in this guide is take you through step by step to deploy a Linux based Multi-Session Farm and then have Published Applications.

Full credit to Rahul Jha in the EUC-Livefire team to bring together the underlying requirements to make this work

Part 1. Preparing an Ubuntu base for Horizon Linux Multi -Session for Site 1

We will complete the following tasks

- We domain join the Linux Master
- We configure TrueSSO for Linux Master
- We install the Horizon Agent

Section 1. Domain joining the Linux Master



- 1. On your Control Center server
 - Open your Site 1 Chrome Browser
 - On the Favourite Bar
 - select the vcenter-01a shortcut
 - Under Getting Started
 - select the LAUNCH VSPHERE CLIENT area



- 2. In the VMware vSphere client area
 - In the **username** area
 - enter administrator@vsphere.local
 - In the **password** area
 - enter VMware1!
 - At the bottom of the screen
 - Select LOGIN

	ropilere		I GIT IIT OIL CITY II OFFITCITICS					
		<	🔠 LinuxMaster-1a		r 🖗 🖒	ACTIONS		
[]]	ð) (1	3 0	Summary Monitor	Configure	Permissions	Datastores	Networks Snapshots	Upp
	- - - - - - - - - - - - - - - - - - -	p-replica-17a5c p-replica-bc4df	Guest OS		Virtual Ma	achine Details	;	ACT
	8	p-template-68				Power Status	Powered On	
	🖨 L	.inuxMaster-1a			C-A	Guest OS	🔥 Ubuntu Linux (64-I	bit)
	🔂 R	RDSBLR-1			[H]	VMware Tools	Running, version:12320 (Guest
	🔂 R	RDSBLR-2	x				0	
	ලිට R	RDSH-01a				DNS Name (1)	linuxmaster-la	
	🗇 U	JAG-HZN-01a						
	🔂 U	JAG-HZN-01b	C Ubuntu			IP Addresses (2)	fe80::487c:3f73:f341:e59	9
	🔂 V	W10EXT-01a	LAUNCH REMOTE CONS		<u> </u>	Encryption	Not encrypted	
	ST V	V10Master-01a						

- 3. In the **VMware vSphere** client
 - In the Hosts & Clusters Inventory
 - select the LinuxMaster-1a virtual machine
 - Note: Power on the LinuxMaster-1a if it's off
 - In the Virtual Machine Details area
 - Next to IP Addresses (2)
 - make a note of YOUR specified assigned DHCP IP address
 - Note: In the example its 172.16.10.151
 - Minimize your Site 1 Chrome Browser



- 4. On the **ControlCenter** server desktop
 - Select and launch the Putty shortcut

🕵 PuTTY Configuration		? ×
Category:		
Session Logging Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Serial	Basic options for your PuTTY se Specify the destination you want to conner Host Name (or IP address) 172.16.10.151 Connection type: Raw O Telnet O Riogin O SSH Load, save or delete a stored session Saved Sessions LinuxMaster-1a Default Settings LinuxMaster-1a esxi-02a.euc-livefire.com nsxmgr-01a.euc-livefire.com vcsa-01a.euc-livefire.com Close window on exit: Always Never O Only on close	ssion ct to Port 22 Serial Load Save Delete lean exit
About Help	Open	Cancel

- 5. In the **Putty Configuration** window
 - under Host Name (or IP address)
 - enter Your DHCP IP address for LinuxMaster-1a
 - under Saved Sessions
 - enter LinuxMaster-1a
 - in the Saved Sessions area under Load
 - select Save
 - select Open

PuTT	Y
Contr 2	<pre>P 172.16.10.151 - PuTTY login as: vmware vmware@172.16.10.151's password:</pre>
R Wi	

- next to login as:
 - enter vmware
- next to password:
 - enter VMware1!
- with your **keyboard**
 - select ENTER

P vmware@linuxmaster-1a: ~	
<pre>vmware@linuxmaster-la:~\$ sudo nano /etc/hosts [sudo] password for vmware:</pre>	

- 7. In the **Putty window**
 - enter sudo nano /etc/hosts
 - next to **password for vmware**:
 - enter VMware1!

P vmware@linuxmaster-1	a: ~
GNU nano 6.2	/etc/hosts
127.0.0.1	localhost
127.0.1.1	linuxmaster-la.euc-livefire.com linuxmaster-la
<pre># The following ::1 ip6-loca fe00::0 ip6-loca ff00::0 ip6-mcas ff02::1 ip6-alls ff02::2 ip6-alls</pre>	lines are desirable for IPv6 capable hosts alhost ip6-loopback alnet stprefix hodes routers

- 8. In the **Putty window**
 - Verify in line 2 that we have already appended
 - linuxmaster-1a.euc-livefire.com
 - linuxmaster-1a
 - With your keyboard

press CTRL + X

vmware@linuxmaster-la:~\$ sudo apt install samba krb5-config krb5-user winbind libpam-winbind libnss-winbind
Reading package lists Done
Building dependency tree Done
Reading state information Done
krb5-config is already the newest version (2.6+nmulubuntul).
libnss-winbind is already the newest version (2:4.15.13+dfsg-Oubuntul.1).
libpam-winbind is already the newest version (2:4.15.13+dfsg-0ubuntu1.1).
samba is already the newest version (2:4.15.13+dfsg-Oubuntul.1).
winbind is already the newest version (2:4.15.13+dfsg-Oubuntu1.1).
krb5-user is already the newest version (1.19.2-2ubuntu0.1).
0 to upgrade, 0 to newly install, 0 to remove and 84 not to upgrade.
vmware@linuxmaster-1a:~\$

- 9. In the **Putty** window
 - Install the winbind and samba packages
 - enter the following command
 - sudo apt install samba krb5-config krb5-user winbind libpam-winbind libnsswinbind
 - If prompted for Password, enter VMware1!
 - If not, press Y to install.
 - validate that **winbind** is already installed and its the newest version
 - sudo apt install tdb-tools
 - If prompted for Password, enter VMware1!



10. In the **Putty** window

enter the following command sudo nano /etc/samba/smb.conf

- next to password for vmware:
 - enter VMware1!



- 11. In the **Putty** window
 - with your Keyboard, move your Cursor down until its two spaces below [global]

Global Setti:	ngs
[global] 🚽	
<pre>security = ads realm = EUC-LIVEFIRE.COM workgroup = EUC-LIVEFIRE.COM idmap uid = 10000-20000 idmap gid = 10000-20000 winbind enum users = yes winbind enum groups = yes template homedir = /home/%D/%U template shell = /bin/bash client use spnego = yes client ntlmv2 auth = yes encrypt passwords = yes winbind use default domain = yes restrict anonymous = 2 kerberos method = secrets and keytab winbind refresh tickets = true</pre>	
^G Help [∧] O Write Out [∧] W Wh	ere

• **Copy** the following from below

security = ads realm = EUC-LIVEFIRE.COM workgroup = EUC-LIVEFIRE.COM idmap uid = 10000-20000 idmap gid = 10000-20000 winbind enum users = yes winbind enum groups = yes template homedir = /home/%D/%U template shell = /bin/bash client use spnego = yes client ntlmv2 auth = yes encrypt passwords = yes winbind use default domain = yes restrict anonymous = 2 kerberos method = secrets and keytab winbind refresh tickets = true

• Paste in your Putty console



- 13. In the **Putty** window
 - Using your **keyboard**,
 - move your Cursor down, until you find workgroup = WORKGROUP
 - Replace WORKGROUP with EUC-LIVEFIRE
 - As shown in the screenshot above



- 14. To Save the smb.conf
 - Using your **keyboard**,
 - Enter CTRL + X
 - Press Y
 - Press Enter to exit

```
🖉 vmware@linuxmaster-1a: /
```

vmware@linuxmaster-1a:/\$ vmware@linuxmaster-1a:/\$	sudo	systemctl	restart	smbd.service	
		¢			

15. Retsart smbd.service

sudo systemctl restart smbd.service

```
[sudo] password for vmware:
vmware@linuxmaster-1a:~$ sudo nano /etc/samba/smb.conf
vmware@linuxmaster-1a:~$ sudo nano /etc/krb5.conf
```

16. In the **Putty** window

• enter the following command

sudo nano /etc/krb5.conf



- 17. In the **Putty** window
 - In the [libdefaults] section
 - using your keyboard, move the cursor below default_realm = EUC-LIVEFIRE.COM
 - paste the following one by one
 - dns_lookup_realm = true
 - dns_lookup_kdc = true



- 18. In the **Putty** window
 - using your Keyboard, move your Cursor down until you find {realms}
 - leave your Cursor over the ATHENA.MIT.EDU
 - with your Keyboard
 - press ENTER
 - press the TAB key
 - move your Cursor one row up

[real	lms]
	<pre>EUC-LIVEFIRE.COM = { kdc = controlcenter.euc-livefire.com admin_server = controlcenter.euc-livefire.com }</pre>
	ATHENA.MIT.EDU = {

- Above ATHENA.MIT.EDU
 - type in the following

EUC-LIVEFIRE.COM = {

kdc = controlcenter.euc-livefire.com

admin_server = controlcenter.euc-livefire.com

}



20. In the **Putty** window

- move your Cursor down to {domain_realm}
- Open a new row, between {domain_realm} and .mit.edu = ATHENA.MIT.EDU



21. In the **Putty** window

- Below {domain_realm}
 - type the following

euc-livefire.com = EUC-LIVEFIRE.COM .euc-livefire.com = EUC-LIVEFIRE.COM



- using your Keyboard
- enter CTRL + S to save
- enter CTRL + X to exit

vmware@linuxmaster-1a:~\$ sudo nano /etc/nsswitch.conf

- 23. In the **Putty** window
 - enter the following command

sudo nano /etc/nsswitch.conf

🧬 vmware@linuxm	aster-1a: ~	
GNU nano	6.2	
# /etc		
# # Evan	Defeue	NII Name
# If s	Belore	-refere
# `inf		witch"
passwd:	files sys	temd
group:	files sys	temd
shadow:	files	
gshadow:	files	
hostat	filos mdn	c4 minimol
notworke:	files mun	.54_IIITIIIIaT
networks.	IIIes	
protocols:	db files	
	After	
# `info li	bc "Name Servi	ce Switch"
passwd:	files wi	nbind
group:	files wi	nbind
shadow:	files wi	nbind
gshadow:	files	
hosts:	files md	ns4_minimai
networks:	files	

24. In the **Putty** window

- change the following to
 - Next to:
 - passwd: files winbind
 - group: files winbind

- shadow: files winbind
- To Save
 - Type CTRL + S
- To Exit
 - Type CTRL + X

```
vmware@linuxmaster-la:~$ sudo nano /etc/nsswitch.conf
vmware@linuxmaster-la:~$ sudo nano /etc/nsswitch.conf
vmware@linuxmaster-la:~$ sudo kinit administrator
Password for administrator@EUC-LIVEFIRE.COM:
vmware@linuxmaster-la:~$
```

- 25. In the **Putty** window
 - enter the following command
 - sudo kinit administrator
 - with your **keyboard**
 - Press Enter
 - Next to Password for administrator@EUC-LIVEFIRE.COM:
 - type VMware1!

```
Vmware@linuxmaster-la:~$ sudo klint doministrator
Password for administrator@EUC-LIVEFIRE.COM:
vmware@linuxmaster-la:~$ sudo klist
Ticket cache: FILE:/tmp/krb5cc_0
Default principal: administrator@EUC-LIVEFIRE.COM
Valid starting Expires Service principal
06/03/23 17:53:56 07/03/23 03:53:56 krbtgt/EUC-LIVEFIRE.COM@EUC-LIVEFIRE.COM
renew until 07/03/23 17:53:25
vmware@linuxmaster-la:~$
```

- enter the following command
 - sudo klist
 - with your keyboard
 - Press ENTER



- 27. In the **Putty** window
 - · enter the following command

sudo net ads keytab create -U administrator

- Next to Password for [EUC-LIVEFIRE.COM\administrator]:
 - type VMware1!

```
vmware@linuxmaster-1a:~
vmware@linuxmaster-1a:~$ sudo net ads join -U administrator
Password for [EUC-LIVEFIRE\administrator]:
Using short domain name -- EUC-LIVEFIRE
Joined 'LINUXMASTER-1A' to dns domain 'euc-livefire.com'
vmware@linuxmaster-1a:~$
```

28. In the **Putty** window

enter the following command

sudo net ads join -U administrator

- Next to Password for [EUC-LIVEFIRE.COM\administrator]:
 - type VMware1!



29. In the **Putty** window

enter the following command

sudo systemctl restart winbind.service

🛃 vmware@linuxmaster-1a: ~
vmware@linuxmaster-1a:~\$ wbinfo -u
administrator
guest
krbtgt
jill
mark
tom
fernando
kim
rowan
kevin
sandra
admin1
admin2
tim
laura
Jackie
craig
vmware@linuxmaster-la:~\$

- 30. In the **Putty** window
 - enter the following command

wbinfo -u

- with your keyboard
 Press Enter

🖉 vmware@linuxmaster-1a: ~ mware@linuxmaster-1a:~\$ wbinfo -g domain computers enterprise admins domain admins domain users domain guests group policy creator owners ras and ias servers read-only domain controllers cloneable domain controllers key admins dnsupdateproxy helpdesk it support marketing developers /mware@linuxmaster-1a:~\$

- 31. In the **Putty** window
 - enter the following command
 - wbinfo -g
 - with your keyboard
 - Press Enter



• enter the following command

sudo reboot

- next to [sudo] password for vmware:
 - type VMware1!
 - Press Enter



33. In the **Putty window (inactive)**

- select the top left corner icon
- From the drop down menu
 - select Restart Session

developers
adsyncadmins
adsyncoperators
adsyncbrowse
adsyncpasswordset
vmware@linuxmaster-1a:~\$ sudo reboot
vmware@linuxmaster-1a:~\$
🚰 login as: vmware
🚰 vmware@172.16.10.189's password: 📒

- 34. In the **Putty** window
 - next to login as :
 - enter **vmware**
 - with your *keyboard*
 - press ENTER
 - next to password :
 - enter VMware1!

• with your *keyboard*

• press ENTER

Section 2. Configure TrueSSO for Ubuntu Desktop

Enable ESM Apps to receive additional future security updates See https://ubuntu.com/esm or run: sudo pro status Last login: Mon Apr 10 11:26:56 2023 from 192.168.110.10 vmware@linuxmaster-1a:~\$ sudo apt install libpam-pkcs11 [sudo] password for vmware:

- 1. On your Ubuntu desktop,
 - To install the pkcs11 support package
 - In the Putty session enter
 - sudo apt install libpam-pkcs11
 - when prompted for password
 - enter VMware1!



- 2. On your Ubuntu desktop,
 - to Install the libnss3-tools package
 - In the Putty session enter
 - sudo apt install libnss3-tools
 - with your keyboard
 - Press ENTER (no password required)



- 3. On your ControlCenter server
 - select the **START** button
 - In the Menu
 - select Window Administrative tools

uick Copy Pas	ste	Me Copy path Paste shortcut	Move to •	Copy to •	Delete	Rename	New folder
Clipbo	ard			Org	anize		N
~ ↑ 🗄 י	С	ontrol Panel > Syst	em and s	Security	> Admi	nistrative	Tools
	^	Name	^			D	ate modified
Quick access							
Desktop 🖈		Remote Des	ktop Sen	/ices		2/	7/2022 11:26 A
		Terminal Ser	vices			9/	/15/2018 7:19 A
Downloads 🚿		🛃 Active Direc	tory Adm	ninistrativ	ve Center	r 9/	/15/2018 7:13 A
Documents 🖈		😹 Active Direc	tory Dom	nains and	Trusts	9/	/15/2018 7:14 🗚
Pictures		🎅 Active Direc	tory Mod	dule for V	Vindows	Po 9/	/15/2018 7:13 4
icons		🕞 Active Direc	tory Sites	and Ser	vices	9/	/15/2018 7:13 🖌
Site1		ह Active Direc	tory User	rs and Co	mputers	9/	/15/2018 7:14 🛛
Site2		🂦 ADSI Edit				9/	/15/2018 7:13 A
Surtem 22		🚡 Certification	Authori	ty		9/	/15/2018 7:13 🛛
Systemsz		訡 Component	Services			9/	/15/2018 7:12 🖌
his PC		╊ Computer N	lanagem	nent		9/	/15/2018 7:12 4
3D Objects		🎦 Defragment	and Opt	imize Dri	ves	9/	/15/2018 7:12

4. In the Administrative Tools area

• select Certificate Authority



- 5. In the Certificate Authority console
 - select & right-click CONTROLCENTER-CA
 - in the *drop menu*
 - select Properties

CONTROLCENTER-CA	Properties			?	×
Extensions	Storage		Certificate N	Managers	3
Enrolment Agents	Auditing	Recover	y Agents	Sec	urity
General	Policy Mo	dule	Exit	Module	
Certification authority	(CA)				
Name:	CONTROLCE	NTER-CA			
CA certificates:					
Certificate #0					
Certificate #0					
		_			
			View C	ertificate	
Cryptographic setting	qs				_
Denviden	M	V- C	Dente	d	
Provider.	MICrosoft Soft	ware ney 51	orage Provi	der	
Hash algorithm:	SHA256				
riddir digold in.	0111200				
OK	Cance	4	Apply	He	do
	Carlos		, hbhil	110	h
Certificate					
a certificate					
Consol and a					
General Details Cer	til cation Path				
	_				
Certificat	te Information				

- 6. In the **CONTROLCENTER-CA** Properties
 - select View Certificate
 - In the Certificate window
 - select the **Details** tab

General	Details Ce	ertification Path		
Show:	<all></all>		\checkmark	
Field			Value	^
📴 Ver	rsion		V3	
📄 Ser	rial number		53721658515620874c4ba6c1	
📑 Sig	nature algori	ithm	sha256RSA	
📄 Sig	nature hash	algorithm	sha256	
E Iss	uer		CONTROLCENTER-CA, euc-liv	
📴 Val	id from		Monday, March 1, 2021 4:54:	
🔄 Va	id to		Sunday, March 1, 2026 5:04:2	~
LICE INT				
		Ed	it Properties. Copy to File.	

- 7. In the **Certificate** > **Details** tab
 - select Copy to File....



8. In the Certificate Export Wizard

- Welcome page
- select Next

÷	F Certificate Export Wizard	
	Export File Format Certificates can be exported in a variety of file formats.	
	Select the format you want to use:	
	DER encoded binary X.509 (.CER)	
	O Base-64 encoded X.509 (.CER)	
	Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)	
	Include all certificates in the certification path if possible	
	O Personal Information Exchange - PKCS #12 (.PFX)	
	Include all certificates in the certification path if possible	
	Delete the private key if the export is successful	
	Export all extended properties	
	Enable certificate privacy	
	 Microsoft Serialized Certificate Store (.SST) 	
	Next Cancel	

- 9. In the **Certificate Export Wizard**
 - Export File Format page
 - next to DER encoded X.509 (.CER)
 - select the radio button
 - select Next

					×
←	🐓 Certificate Ex	port Wizard			
	File to Export				
	Specify the	name of the file you w	ant to export		
	File name:				
	C:\certifica	ites\certificate.cer		Browse	
	•				
					1
				Next Can	cel

- 10. In the Certificate Export Wizard
 - File to Export page
 - select Browse
 - browse to C:\certificates\
 - next to File name:
 - enter certificate
 - select Save
 - select Next

🚰 Certificate Export Wizard	
Completing the Certifica	ate Export Wizard
You have successfully completed the O	Certificate Export wizard.
You have specified the following setting	ngs:
File Name	C:\certificates\certificate.cer
Export Keys	No
Include all certificates in the certifica File Format	ition path No DER Encoded Binary X.509 (*.cer)
L	
	5

- 11. In the Certificate Export Wizard
 - Completing the Certificate Export Wizard page
 - select Finish
 - to close the The export was successful message and Export wizard
 - select Ok
 - to close the **Certificate** window
 - select OK
 - to close the CONTROLCENTER-CA Properties window
 - select OK
 - Close the Certsrv admin console

Alama	Cize Changed	Dialate	Owner	
🌆 Login			_	×
New Site administrator@vsphere.local@vcsa-01a.euc esxi-02a.euc-livefire.com vmware@172.16.60.191	Session File protocol: SFTP	Password:	Port number: 22 Advanced	
< >>				
Tools Manage	🔁 Login 🔻	Close	Help	
Show Login dialog on startup and when the last	session is closed			

- 12. On your ControlCenter server
 - Launch your WinSCP client
 - below Host name:
 - enter your IP address
 - below Username
 - enter vmware
 - below Password
 - enter VMware1!
 - select Login



- 13. In the WinSCP client
 - select the UP arrow twice

mote H	lelp)	
Jeue 🝷		Transfer Settings Default	
2 9	6		
• +	»	Download - 📝 Edit - 🗶 🛃	Pro
	c	Name	
ry	2 2 1	 w bin boot cdrom dev etc home lib32 lib64 libx32 lost-found metia mpt opt proc root run sbin 	
		snap	
6	-	SIV	
		ays tmp usr	
		var swapfile	2,693,

14. In the WinSCP client

• select and open the **tmp** folder

C:\	certifica Share	ates	View						
a)	Paste	א ₪ ₽	Cut Copy path Paste shortcut	Move to •	Copy to •	X Delete	■] Renam	e New folder	nev T Eas
CI	ipboard				Org	anize			New
1	> Tł	his P	C > Local Disk	: (C:) >	certificat	es			
000		I	Name	^				Date modif	ied
		l	🐺 certificate.co	er				4/18/2023 7	:59 AM
ads nts	7 7 7		🥦 Wildcard202	23.pfx			i	2/17/2023 3	8:08 PM
	Я								

15. On the Controlcenter server

- From the desktop, Taskbar
 - Open the folder Icon
 - browse to C:\ > Certificates

📙 tmp 🔹 🚰 🔻 🗑 🔹 🖛 🔹 📩 🔂 🏠 🏠 Find Files 🗧								
😭 Download 🔹 📝 Edit 🔹 🗙 🚮 🕞 Properties 📑 New 🔹 🕂 📄 👿								
/tmp/								
Name	Size	Changed	Rights	Owner				
t		3/3/2023 11:27:59 AM	rwxr-xr-x	root				
hsperfdata_root		4/18/2023 9:18:27 AM	rwxr-xr-x	root				
snap-private-tmp		4/17/2023 3:49:15 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:57 PM	rwx	root				
systemd-private-744f		4/18/2023 9:18:19 AM	rwx	root				
systemd-private-744f		4/13/2023 1:28:50 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:50 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:50 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:50 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:49 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:49 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:49 PM	rwx	root				
systemd-private-744f		4/13/2023 1:28:53 PM	rwx	root				
tracker-extract-3-files		4/17/2023 3:49:14 PM	rwx	gdm				
tracker-extract-3-files		4/17/2023 3:49:14 PM	rwx	vmware				
VMwareDnD		4/13/2023 1:28:49 PM	rwxrwxrwt	root				
vmware-root		4/18/2023 9:18:42 AM	rwx	root				
vmware-root_682-269		4/13/2023 1:28:50 PM	rwx	root				
🛱 certificate.cer 🛛 🚽 🗕	2 KD	4/18/2023 7:59:45 AM	rw-rw-r	vmware				
certificate.pem	2 KB	4/18/2023 8:05:36 AM	rw-rr	root				
krb5cc_0	2 KB	4/18/2023 7:38:03 AM	rw	root				
pam_pkcs11.conf	11 KB	4/12/2023 6:31:55 AM	rw-rw-r	vmware				

- 16. On the Controlcenter server
 - From the **C:\Certificates** folder
 - select and drag certificate.cer to WinSCP /tmp/ folder

Provide a start with the start of the start
vmware@linuxmaster-1a:/tmp\$ ls
certificate.cer 🔶
hsperfdata_root
krb5cc_0
snap-private-tmp
systemd-private-744fcbddef994257aad3b8d48751ddd4-cold
systemd-private-744fcbddef994257aad3b8d48751ddd4-Mode
systemd-private-744fcbddef994257aad3b8d48751ddd4-powe
systemd-private-744fcbddef994257aad3b8d48751ddd4-swit
systemd-private-744fcbddef994257aad3b8d48751ddd4-syst
vmware@linuxmaster-1a:/tmp\$

- 17. On your Ubuntu desktop,
 - to Locate the root CA certificate that you downloaded,
 - In the Putty session enter the following commands
 - cd /tmp
 - **|s**
 - you should see the **certificate.cer** certificate

vmware@linuxmaster-1a:/tmp\$ sudo openssl x509 -inform der -in /tmp/certificate.cer -ou	at /tmp/certificate.pem
vmware@llnuxmaster-la:/tmp5 ls certificate.cer certificate.pem hsperfdata_root krb5cc_0 snap-private-tmp	systemd-private-744fcbc systemd-private-744fcbc systemd-private-744fcbc systemd-private-744fcbc tracker-extract-3-files
systemd-private-744fcbddef994257aad3b8d48751ddd4-colord.service-sru993 systemd-private-744fcbddef994257aad3b8d48751ddd4-ModemManager.service-hsbLRj	tracker-extract-3-files VMwareDnD
systemd-private-744fcbddef994257aad3b8d48751ddd4-power-profiles-daemon.service-tlAKNM systemd-private-744fcbddef994257aad3b8d48751ddd4-switcheroo-control.service-fChunv systemd-private-744fcbddef994257aad3b8d48751ddd4-systemd-logind.service-ES9bIG	vmware-root vmware-root_682-2697467
vmware@linuxmaster-1a:/tmp\$ vmware@linuxmaster-1a:/tmp\$	

- 18. On your Ubuntu desktop,
 - · Convert the CER file to . PEM format
 - This will also serve to validate the file format
 - In the Putty session enter the following commands
 - sudo openssl x509 -inform der -in /tmp/certificate.cer -out /tmp/ certificate.pem
 - Once the file is converted, run the following command to validate
 - Is

<pre>tracker-extract-3-files.1000 tracker-extract-3-files.128 VMwareDnD vmware-root vmware-root_647-3988163046 vmware@linuxmaster-1a:/tmp\$ sudo mkdir -p /e [sudo] password for vmware: vmware@linuxmaster-1a:/tmp\$</pre>	tc/pki/nssdb
wmware-root_647-3988163046	4/10/2023 11:50:4

- 19. On your Ubuntu desktop,
 - Make an/etc/pki/nssdb directory to contain the system database
 - In the Putty session enter
 - sudo mkdir -p /etc/pki/nssdb
 - If prompted for password for **vmware**:
 - enter VMware1!

vmware@linuxmaster-la:/tmp\$ sudo certutil -A -d /etc/pki/nssdb -n "root CA cert" -t "CT,C,C" -i /tmp/certificate.pem vmware@linuxmaster-la:/tmp\$

- 20. On your Ubuntu desktop,
 - to Use the certutil command to install the root CA certificate to the system database/etc/ pki/nssdb
 - In the Putty session enter
 - sudo certutil -A -d /etc/pki/nssdb -n "root CA cert" -t "CT,C,C" -i /tmp/ certificate.pem

```
vmware@linuxmaster-1a:/tmp$ mkdir -p /etc/pam_pkcs11/cacerts
vmware@linuxmaster-1a:/tmp$ sudo cp /tmp/certificate.pem /etc/pam_pkcs11/cacerts
vmware@linuxmaster-1a:/tmp$
```

- 21. On your Ubuntu desktop,
 - Copy the root CA certificate to the/etc/pam_pkcs11/ca certs directory.
 - In the Putty session enter

mkdir -p /etc/pam_pkcs11/cacerts

sudo cp /tmp/certificate.pem /etc/pam_pkcs11/cacerts



- 22. On your Ubuntu desktop,
 - To Create a hash link for the root CA certificate. .
 - In the Putty session enter

cd /etc/pam_pkcs11/cacerts

sudo pkcs11_make_hash_link



Section 3: Deploying the Linux Horizon Agent



- 1. On your ControlCenter server
 - from the Desktop
 - launch the WinSCP shortcut

🌆 Login	-	- 🗆 X
New Site administrator @vsphere.local@vcsa-01a.euc-livef esxi-02a.euc-livefire.com	Session File protocol: SFTP Host name:	Port number:
	172.16.10.151 User name: Password: vmware ••••••••• Save ▼	Advanced
< >>		/
Tools Manage Manage	E Login Close	Help
Continue connecting to an unknown server and host key to a cache? The server's bot key uses on found in the coche. You have no	r A	
the server is the computer you think it is. The server's Ed25519 key details are:	gan	
Algorithm: ssh-ed25519.255 SHA-256: 00dE8grPmfIHKia6oXG7m5IO57mgeT3v5P0O+V MD5: 38:83:57:9b:bc:96:01:d9:e7:3a:9c:d7:1d:c2:68:90	NQOyVg=	
If you trust this host, press Yes. To connect without adding host cache, press No. To abandon the connection press Cancel. Copy key finger:	prints to dipboard	
Yes 💌 No Cancel	Help	

- 2. In the **WinSCP** window
 - In the left pane
 - select New Site
 - In the right pane, under
 - Host name:
 - enter your LinuxMaster IP
 - User name:
 - enter **vmware**
 - Password:
 - enter VMware1!
 - Select Login
 - In the **Warning** window
 - select Yes

	•			
	τo	vmware •		
» -	+ "	🛛 📄 Download 👻 📝 Edit	- X 🛃	Properties
		/home/vmware/		- (2)
	C	Name	Size	Changed
rectory	2	±		3/3/2023 11:2
r	2	Desktop		3/3/2023 11:3
r	1	Documents		3/3/2023 11:3
		Downloads		3/3/2023 11:3
		Music		3/3/2023 11:3
		Pictures		3/3/2023 11:3
		Public		3/3/2023 11:3
		snap		3/3/2023 11:3
		Templates		3/3/2023 11:3
		Videos		3/3/2023 11:3

- 3. In the **WinSCP** window
 - In the right pane Navigate to
 - from the dropdown denoted as 1
 - Select /<root>
 - Home > vmware > Downloads
 - Open Downloads



- 4. On the ControlCenter server desktop
 - Open the **software** shortcut
 - Open the Horizon > Linux folder
 - Select > right-click > VMware-horizonagent-linuxx86_64-2306-8.10.0-21968037.tar.gz file
 - select Copy
 - Switch back to WinSCP

2 94	Downloa	d • 🚰 • 🟹 •	[◆ • •]		Find Files	
: <u>+</u>	/home/vmwa	re/Downloads/	🛪 🛍 4	Properties T New •		
C 7 2 2 1	Name		Size	Changed 3/3/2023 11:49:02 AM	Rights rwxr-x	
	C	Go To Refresh Add Path Filter Copy Pat New Paste Static Cur	to Bookma h to Clipbo	Ctrl+R arks Ctrl+R Ctrl+Alt+F Ctrl+Alt+F Ctrl+V Ctrl+V mands		2
Tran	Upload file	: 'VMware-hori ware/Downlo	zonagen ads/*.*	t-linux-x86_64-2306-8	3. 10.0-21968037.tar.g:	z' to remote director
	ansfer in ba	ckground (add	l to trans	sfer queue) OK	Cancel	Help

- 5. In the **WinSCP** window
 - In the **right pane**
 - **select** and **right-click** to launch the menu
 - select Paste
 - In the **Upload** window
 - select OK
 - Switch back to your Putty session

🚰 vmware@linuxmaster-1a: ~
<pre>vmware@linuxmaster-la:~\$ sudo reboot [sudo] password for vmware:</pre>
🚰 login as: vmware 🚰 vmware@172.16.10.151's password: 📕

- If required
- Next to login as:
 - type vmware
- next to password:
 - type VMware1!

```
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Wed Apr 5 17:25:42 2023 from 192.168.110.10
vmware@linuxmaster-la:~$ sudo apt install open-vm-tools-desktop open-vm-tools
[sudo] password for vmware:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
open-vm-tools is already the newest version (2:12.1.0-1~ubuntu0.22.04.1).
```

- 7. In the **Putty** Console
 - enter the following command:

sudo apt install open-vm-tools-desktop open-vm-tools

- with your keyboard
 - press ENTER
- next to password for vmware:
 - enter VMware1!
- from the output
 - validate that **open-vm-tools** is installed and you have the latest version

······································		
Processing triggers for man-db (2.10.2-1)		
vmware@linuxmaster-la:/etc/pam_pkcsll/cacerts\$ cd /home/vmware/Downloads/		
vmware@linuxmaster-la:~/Downloads\$ ls -l		
total 127280		
-rw-rw-r 1 vmware vmware 130328034 Jul 18 19:06 VMware-horizonagent-linux-x86_64-2306-8	.10.0-21968037.tar.gz	
vmware@linuxmaster-la:~/Downloads\$ tar -zxvf VMware-horizonagent-linux-x86_64-2306-8.10.0-	-21968037.tar.gz	
VMware-horizonagent-linux-x86_64-2306-8:10.0-21968037/		
VMware-horizonagent-linux-x86_64-2306-8.10.0-2196803//resources/		
VMware-norizonagent-linux-xx6_64-2306-8.10.0-21968037/resources/vnci/		
VMWare-norizonadent-linux-xoc_64-2306-6.10.0-2196803//fesources/vhc1/ubuntu/		
vmwaze-norizonagent-linux-x00_04-200-0.10.0-21960037/resources/vnci/ubuntu/1404/uch-whci	ubuntul/04 tor monifoct	
Whate-horizonagent-linux-x86_64-2306-8 10 0-21968037/resources/vhc//ubuntu/1404/usb-vhci	ubuntu1404 tar natterns	
Wware-horizonagent-linux-x86 64-2306-8.10.0-21968037/resources/whci/ubuntu/1404/usb-whci	-hcd. ko	
VMware-horizonagent-linux-x86 64-2306-8.10.0-21968037/resources/vhci/ubuntu/1404/usb-vhci	-iocifc.ko	
VMware-horizonagent-linux-x86 64-2306-8.10.0-21968037/resources/vhci/ubuntu/1604/		
VMware-horizonagent-linux-x86 64-2306-8.10.0-21968037/resources/vhci/ubuntu/1604/usb-vhci	-ubuntu1604.tar.manifest	
<pre>WWware-horizonagent-linux-x86 64-2306-8 10 0-21968037/resources/whci/ubuntu/1604/usbruhci- WMware-horizonagent-linux-x86 64-2306-8.10.0-21968037/110n/fr/collabui.mo</pre>	ubuntu1604 tar nattarne	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/fr/printerui.mo)	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/l10n/fr/vmwdmGreeter	.mo	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/l10n/ja/		
<pre>VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ja/collabui.</pre>		
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ja/printerui	The package will	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ja/vmwdmGree	extract and look like	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ko/	this when complete	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/l10n/ko/collabui.	this when complete	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ko/printerui.		
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ko/vmwdmGreeter	.mo	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/		
Mware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/collabui.mo		
Mware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/printerui.mo		
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/vmwdmGree	eter.mo	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_TW/		
<pre>VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_TW/collabui.</pre>	mo	
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/l10n/zh_TW/printerui	.mo	
<pre>VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/l10n/zh_TW/vmwdmGree</pre>	ter.mo	
vmware@linuxmaster-1a:~/Downloads\$		

- 8. In the **Putty** Console
 - with your keyboard
 - type
 - cd /home/vmware/Downloads/
 - In the /Downloads\$ path
 - with your keyboard
 - Type Is -I
 - Press ENTER
 - Type tar -zxvf VMware-horizonagent-linuxx86_64-2306-8.10.0-21968037.tar.gz
 - Note: The above command will extract the files from the compressed agent bundle

VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ko/printerui.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/ko/vmwdmGreeter.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/collabui.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/printerui.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_CN/vmwdmGreeter.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_TW/
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_TW/collabui.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_TW/printerui.mo
VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/110n/zh_TW/vmwdmGreeter.mo
vmware@linuxmaster-1a:~/Downloads\$ cd VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/
vmware@linuxmaster-la:~/Downloads/VMware-horizonagent-linux-x86 64-2306-8.10.0-219680378

- 9. In the **Putty** Console
 - /Downloads\$
 - with your **keyboard**
 - type is to list the files
 - type cd VMware-horizonagent-linux-x86_64-2306-8.10.0-21968037/
 Press ENTER



10. In the **Putty** Console

• Install Linux Agent with TrueSSO Mode and Multi-session mode enabled

- In the VMware-horizonagent-linux-x86_64-2303-8.9.0-21434177 folder
 - enter sudo ./install_viewagent.sh --multiple-session -T yes
 - with your keyboard
 - Press ENTER
 - if prompted [sudo] password for vmware:
 - type VMware1!
 - Press ENTER
 - when prompted, Are you sure to install Linux agent (y/n)?
 - type Y
 - Press ENTER

If you have any questions or issues regardin You must restart your system for the configu Installation done vmware@linuxmaster-1a:~/Downloads/VMware-hor

- 11. Once the agent installation is complete,
 - Message will show up
 - Installation Done



- 12. In the **Putty** Console
 - type

sudo nano /etc/vmware/viewagent-custom.conf

Press ENTER



13. In the **Putty** Console

- NANO console
 - using your keyboard, **scroll down** to the bottom of this window
below #AppEnable=FALSE

- enter
 OfflineJoinDomain=samba
 NetbiosDomain=EUC-LIVEFIRE
- using your keyboard
 - To SAVE
 - Press CTRL + S
 - To EXIT
 - Press CTRL + X

| Clipbo | ard | Paste shortcut | to• t | o • • •
Organize | tolder | New |
|--------|------|--|--------------------|---------------------|--------------|-----------|
| • | Netw | ∕ork > horizon |)1a.euc-live | fire.com > softwa | are > Horizo | n > Linux |
| iess | | Name | er | | ~ | |
| ade | 4 | pam_pkcs ¹ | ,
() | | | 1 |
| ents | * | 📋 VMware-h | Edit wi | th Notepad++ | | tar.gz |
| | * | | ピ Share
Restore | e previous versions | | |
| | | | Send to |) | > | |
| 32 | | | Cut
Copy | | | |
| | | | Create | shortcut | | |
| cts | | | Delete | | | |
| • | | | Renam | e | | |
| ents | | | Proper | ties | | |
| ads | | in the second seco | | | | - |
| | | | | | | |
| l | | | | | | |

14. On **ControlCenter** server

- On the taskbar
- Launch the folder icon
- Browse to \\horizon-01a.euc-livefire.com\software\Horizon\Linux
- In your File Explorer window
- select and copy pam_pks11.conf



15. On **ControlCenter** server

- switch to WinSCP
- In WinSCP
 - browse to /tmp folder
 - In the TMP folder
 - paste pam_pkcs11.conf

```
wmware@linuxmaster-1a:/tmp$ sudo cp pam_pkcs11.conf /etc/pam_pkcs11/
vmware@linuxmaster-1a:/tmp$
vmware@linuxmaster-1a:/tmp$
```

16. In your Putty session

cd /tmp

sudo cp pam_pkcs11.conf /etc/pam_pkcs11/

🧬 vmware@linuxmaster-1a: /tmp



- 17. In your Putty session, modify the permission of **pam_pkcs11.conf** that we just copied in step 16
 - sudo chmod 777 /etc/pam_pkcs11/pam_pkcs11.conf
 - Is -I /etc/pam_pkcs11/pam_pkcs11.conf

| 🖑 vmware@linuxmaster-1a: ~/Downloads/VMware-horizonagent-linux-x86_64-2303-8.9.0-21434177 | |
|---|-------------------------------------|
| vmware@linuxmaster-la:~/Downloads/VMware-horizonagent-linux-x86_64-2303-8.9.0-21434 | 177\$ sudo chmod 644 /etc/krb5.conf |
| vmware@linuxmaster-la:~/Downloads/VMware-horizonagent-linux-x86_64-2303-8.9.0-21434 | 177\$ ls -1 /etc/krb5.conf |
| -rw-rr 1 root root 3076 Apr 18 08:35 /etc/krb5.conf | _ |
| vmware@linuxmaster-1a:~/Downloads/VMware-horizonagent-linux-x86_64-2303-8.9.0-21434 | 177\$ |
| | |
| | |

- 18. Set the access permissions for the /etc/krb5.conf configuration file to 644
 - sudo chmod 644 /etc/krb5.conf
 - Is -l /etc/krb5.conf

Section 4. Predefining settings for seamless app launches

Many applications on first launch require a range of configurations. We will mitigate these challenges with the following command line functions



- 1. In the Putty Console
 - enter sudo -i
 - with your *keyboard*
 - press ENTER
 - when prompted for password for vmware:

• enter VMware1!

```
Last login: Wed Apr 5 16:37:21 2023 from 192.168

vmware@linuxmaster-1a:~$ sudo -i

[sudo] password for vmware:

root@linuxmaster-1a:~# cd /etc/

root@linuxmaster-1a:/etc# mv skel ske.bak

root@linuxmaster-1a:/etc#
```

- 2. In the Putty Console
 - enter cd /etc/
 - with your *keyboard*
 - press ENTER
 - enter mv skel skel.bak
 - with your *keyboard*
 - press ENTER

```
Last login: Wed Apr 5 16:37:21 2023 from 192.168.110.10

vmware@linuxmaster-1a:~$ sudo -i

[sudo] password for vmware:

root@linuxmaster-1a:~# cd /etc/

root@linuxmaster-1a:/etc# mv skel ske.bak

root@linuxmaster-1a:/etc# cp -R /home/vmware skel

root@linuxmaster-1a:/etc# ls skel

Desktop Documents Downloads Music Pictures Public snap Templates Videos

root@linuxmaster-1a:/etc#
```

3. In the **Putty Console**

- enter cp -R /home/vmware skel
 - with your *keyboard*
 - press ENTER
- enter **Is skel**
 - with your *keyboard*
 - press ENTER

```
root@linuxmaster-la:/etc# ls skel
Desktop Documents Downloads Music Pictures Public
root@linuxmaster-la:/etc# chown root:root -R skel
root@linuxmaster-la:/etc# reboot
```

4. In the **Putty Console**

- enter chown root:root -R skel
 - with your *keyboard*

- press ENTER
- enter **reboot**
 - with your *keyboard*
 - press ENTER

| <mark>ب چ</mark> ھ | PuTTY (inactive) | |
|--------------------|-------------------|--------|
| ē | Restore | |
| | Move | .* |
| | Size | |
| - | Minimize | |
| | Maximize | |
| x | Close | Alt+F4 |
| | Event Log | |
| | New Session | |
| | Restart Session | |
| | Duplicate Session | |
| | Saved Sessions | > |
| | CI | |

- 5. In the **Putty window (inactive)**
 - select the top left corner icon
 - From the drop down menu
 - select Restart Session

| developers |
|---------------------------------------|
| adsyncadmins |
| adsyncoperators |
| adsyncbrowse |
| adsyncpasswordset |
| vmware@linuxmaster-1a:~\$ sudo reboot |
| vmware@linuxmaster-1a:~\$ |
| 🛃 login as: vmware |
| 🚰 vmware@172.16.10.189's password: |
| |

6. In the **Putty** window

- next to login as :
 - enter **vmware**
 - with your *keyboard*
 - press ENTER
- next to **password**:
 - enter VMware1!
 - with your *keyboard*
 - press ENTER

Part 2. Configuring Horizon to Deploy a Linux Multi-Session Farm for Site 1

Introduction. We will configure the following

- Configure the Linux Farm for Site 1
- The Site 2 Farm Configuration has already been done

Configuring the Linux Farm

| S Welcome to VMware vSphere × + | | | | | |
|--|--|--|--|--|--|
| ← → C ① ^a vcenter-01a.euc-livefire.com | | | | | |
| 📀 my-ip.livefire.lab/ip 🔚 Horizon®Site 1 🐜 UAG-HZN-01a 🐜 UAG-HZN-01b 🔼 Avi Vantage Control 📟 HZN Cloud 📀 vcenter-01a 🔘 U | | | | | |
| vmware [.] | | | | | |
| Getting Started | | | | | |
| LAUNCH VSPHERE CLIENT | | | | | |
| Documentation | | | | | |
| VMware vSohere Documentation Center | | | | | |

- 1. On your **ControlCenter** server
 - Open your Site 1 Chrome Browser
 - In the Favourites Bar
 - select the vcenter-01a shortcut
 - Under Getting Started
 - select LAUNCH VSPHERE CLIENT

| here | |
|------------|------------|
| here | |
| | |
| | |
| | |
| | |
| entication | |
| | |
| | entication |

- 2. In the VMware vSphere client
 - In the **Username** area
 - type administrator@vsphere.local
 - In the **Password** area
 - type VMware1!
 - Select LOGIN



- 3. In the VMware vSphere client
 - Hosts & Clusters Inventory
 - Right Click and ShutDown the LinuxMaster
 - Once the VM is Powered off
 - Right- click LinuxMaster-1a
 - In the Menu, select Snapshots > Take Snapshot...

| Take snapshot | × |
|---|---------------------|
| Name | Horizon Linux Agent |
| Description | |
| | |
| Include virtual machine's mem | lory |
| Quiesce guest file system(req | uires VM tools) |
| | |
| | CANCEL |

4. In the **Take snapshot** window

1. Horizon Linux Multi-Session Farms

- Next to Name
 - Type Horizon Linux Agent
- At the bottom of the window
 - select CREATE

| 🛃 vSphere - LinuxMaster-1a - Sumr 🗙 🧑 New Tab |
|--|
| |
| 🕤 my-ip.livefire.lab/ip 🔤 Horizon®Site 1 🚺 UAG-HZN-01a 媡 UAG-H |
| |
| |
| |
| |
| |

- 5. On your Site 1, Chrome Browser
 - In the Favourites Bar
 - select the Horizon Site 1 shortcut

| | Version 2212 |
|----------------------------|--------------|
| administra | tor |
| •••••• | |
| EUC-LIVEFIR | E v |
| Rememb | er user name |

- 6. In the Horizon Login Console
 - In the **Username** area
 - enter administrator

- In the **Password** area
 - enter VMware1!
- select Sign In



- 7. In the VMware Horizon Admin Console
 - Expand Inventory
 - Select Farms
 - In the Farms area
 - Select Add

| Add Farm | |
|----------------------|---|
| 1 Туре | Automated Farm (1) Manual Farm (1) |
| 2 vCenter Server | |
| Storage Optimization | |

- 1. Type area
 - Accept the default
 - In the bottom right corner
 - Select Next

| Add Farm | |
|------------------------|---------------------------------------|
| 🗸 Туре | Instant Clone (j) |
| 2 vCenter Server | vCenter Server |
| | vcenter-01a.euc-livefire.com |
| 3 Storage Optimization | |

- 9. In the **Add Farm** wizard
 - 2. vCenter Server area
 - Accept the default
 - In the bottom right corner
 - Select Next

| Add Farm | |
|--|--|
| 🗸 Туре | Storage Policy Managemer |
| | Use VMware Virtual SAN |
| vCenter Server 3 Storage Optimization | Do not use VMware Virtual SAN Virtual SAN is not available beca Use Separate Datastores for Re |

3. Storage Optimization area

- Accept the default
- In the bottom right corner
 - Select Next

| Add Farm - LinuxBLRFar | m |
|---|--|
| ✓ Type✓ vCenter Server | Asterisk (*) denotes required
* ID
LinuxBLRFarm
Description |
| Storage Optimization | |
| 4 Identification and Settings | Access Group |

- 11. In the **Add Farm** wizard
 - 4. Identification and Settings area
 - Configure the following:-
 - Under ***ID**
 - enter LinuxBLRFarm

| P | re-launch Session Timeout (Applications Only) 🚯 |
|---|---|
| | Never ~ |
| E | mpty Session Timeout (Applications Only) |
| [| Immediate ~ |
| v | Vhen Timeout Occurs |
| ſ | Log Off |
| L | ogoff Disconnected Sessions |
| | ogoff Disconnected Sessions Immediate ~] Bypass Session Timeout |
| | ogoff Disconnected Sessions
Immediate ~
] Bypass Session Timeout ①
Ilow Session Collaboration |
| | ogoff Disconnected Sessions Immediate Bypass Session Timeout Ilow Session Collaboration Enabled equires VMware Blast Protocol. |
| | ogoff Disconnected Sessions Immediate Bypass Session Timeout Ilow Session Collaboration Enabled Q equires VMware Blast Protocol. Iax Sessions Per RDS Host |
| | ogoff Disconnected Sessions Immediate Bypass Session Timeout Ilow Session Collaboration equires VMware Blast Protocol. Iax Sessions Per RDS Host No More Than |

In the Add Farm wizard
 Identification and Settings area

- Configure the following:-
 - Under Farm Settings
 - Default Display Protocol
 - Blast
 - Allow Users to Choose Protocol
 - No
 - Under Pre-launch Session Timeout (Applications Only)
 - select Never
 - Under Empty Session Timeout (Applications Only)
 - select Immediate
 - Under When Timeout Occurs
 - select Log Off
 - Under Logoff Disconnected Sessions
 - select Immediate
 - Under Max Sessions Per RDS Host
 - select No More Than enter 3
- Select Next

| Add Farm - RDSH25-01a | |
|-----------------------------|--|
| 🗸 Туре | Use Custom Script 📄 Enabled
Include Session Count 🕑 Enab |
| VCenter Server | Asterisk (*) denotes required field
* CPU Usage Threshold |
| Storage Optimization | 0 * Memory Usage Threshold |
| Identification and Settings | 0 * Disk Queue Length Threshold |
| Load Balancing Settings | |
| | OISK Read Latency Inreshold |

- 5. Load Balancing Settings area
 - Accept the default
 - In the bottom right corner
 - Select Next

| Add Farm - LinuxBLRFarm | |
|-----------------------------|---|
| V Type | Asterisk (*) denotes required field
Basic |
| VCenter Server | Enable Provisioning (1) Stop Provisioning on Error |
| Storage Optimization | Virtual Machine Naming * Naming Pattern |
| Identification and Settings | LinuxBLR- |
| Load Balancing Settings | * Maximum Machines |
| 6 Provisioning Settings | Minimum Number of Ready (Provision) |
| vCenter Settings | |

- 6. Provisioning Settings area
 - Configure the following:-
 - Under *Naming Pattern
 - enter LinuxBLR-
 - Under *Maximum Machines
 - enter 2
 - Select Next

| St | torage Optimization | |
|------|--|---|
| | | Default Image |
| Id | lentification and Settings | Asterisk (*) denotes required field |
| | | Golden Image in vCenter |
| Lo | oad Balancing Settings | Browse |
| | | * Snapshot |
| P | rovisioning Settings | Browse |
| | | Virtual Machine Location |
|) v | Center Settings | * VM Folder Location |
| elec | t the virtual machines to be used as | s the golden image for this Automated Farm. |
| elec | t the virtual machines to be used as | s the golden image for this Automated Farm. Operating System All |
| elec | t the virtual machines to be used as | s the golden image for this Automated Farm. Operating System All Y Filter C Path |
| elec | t the virtual machines to be used as Show All Golden Images @ Name @ Avi-SE | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE |
| | t the virtual machines to be used at
Show All Golden Images @
Name
@ Avir-SE
@ RDSH-01a | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/Avi-SE |
| elec | t the virtual machines to be used at
Show All Golden Images
Name
Avir-SE
RDSH-01a
UlnuxMaster-1a | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/ADSH-01a /Region01A/vm/Discovered virtual machine/ADSH-01a /Region01A/vm/Discovered virtual machine/ADSH-01a |
| | t the virtual machines to be used as
Show All Golden Images
Name
Au-SE
O RDSH-01a
O LinuxMaster-1a | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/RDSH-01a /Region01A/vm/Discovered virtual machine/RDSH-01a /Region01A/vm/LinuxMaster-1a /Region01A/vm/LinuxMaster-1a |
| | t the virtual machines to be used as
Show All Golden Images
Name
O Avi-SE
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O LinuxMaster-1a | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/RDSH-01a /Region01A/vm/LinuxMaster-1a /Region01A/vm/LinuxMaster-1a |
| | t the virtual machines to be used as
Show All Golden Images
Name
O Avi-SE
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O LinuxMaster-1a | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/RDSH-01a /Region01A/vm/LinuxMaster-1a /Region01A/vm/LinuxMaster-1a |
| | t the virtual machines to be used as
Show All Golden Images
Anne
AnneSE
RDSH-01a
UinuxMaster-1a | s the golden image for this Automated Farm. Operating System All Y Filter C Path /Region01A/vm/Discovered virtual machine/Avi-SE /Region01A/vm/Discovered virtual machine/RDSH-01a /Region01A/vm/LinuxMaster-1a |

7. vCenter Settings area

- Configure the following:-
 - Under *Golden Image in vCenter
 - Select Browse
 - In the Select Golden Image window
 - next to LinuxMaster-1a
 - select the radio button
 - Select Submit

| * Go | | luired field | | | |
|----------|-------------------------|--------------------------------|-------------------------------------|-------------------|----------------|
| | lden Image in vCe | enter | | | |
| /Reg | gion01A/vm/Linux | Master-1a | | | Browse |
| * Sna | apshot | | | _ | |
| | | | | | Browse |
| Virt | ual Machine | Location | | | |
| | | | | | |
| elect | Default Image | | | |) |
| olden Im | age in vCenter /Region0 | 1A/vm/LinuxMaster-1a | | | |
| e Carbo | n Black scan percentage | reflects the value at the time | the snapshot was taken. Before clon | ing the snapshot, | run the Carbon |
| Snansh | ot Details | the recommended room. | | | C |
| Surban | orbeans | | | | 0 |
| | pshot | Time Created | Carbon Black Scan (% Complete) | Description | |
| Snaj | | | carbon black scarr (re complete) | Description | Path |

7. vCenter Settings area

- Configure the following:-
 - Under *Snapshot
 - Select Browse
 - In the Select Default Image window
 - next to Horizon Linux Agent
 - select the radio button
 - Select Submit

| Default Image | |
|---|--------|
| Asterisk (*) denotes required field | |
| * Golden Image in vCenter | |
| /Region01A/vm/LinuxMaster-1a | Browse |
| * Snapshot | |
| /Horizon Linux Agent | Browse |
| Virtual Machine Location * VM Folder Location | |
| | Browse |
| VM Folder Location | _ |
| Select the folder to store the VM. | |
| Show All Folders
V Di Region01A | |
| Discovered virtual machine | |
| C RDSHFARM01 | |
| E vcls | |
| | Submit |

- 7. vCenter Settings area
 - Configure the following:-
 - Under ***VM Folder Location**
 - Select Browse
 - In the VM Folder Location window
 - select the **Region01A**
 - Select Submit

| /Region01A/vm | Brow | /se |
|---|----------|-----|
| Resource Settings | | |
| Cluster | <u> </u> | |
| | Brow | /se |
| Resource Pool | | |
| | | |
| Select Cluster | | |
| Select Cluster
Select a cluster on which to run the · | | |
| Select Cluster Select a cluster on which to run the Region01A Bangalore | | |
| Select Cluster Select a cluster on which to run the · Cartering Region01A Cartering Bangalore | | |

- 7. vCenter Settings area
 - Configure the following:-
 - Under *Cluster
 - Select Browse
 - In the **Select Cluster** window
 - select the **Bangalore**
 - Select Submit

| Resource Settings | |
|--|--------|
| * Cluster | |
| /Region01A/host/Bangalore | Browse |
| * Resource Pool | |
| | Browse |
| * Datastores | |
| Clieb Decourses as a set of | |
| Resource Pool | |
| Select a resource pool to use for this Farm. | |
| Bangalore | |
| | |
| Submit Cancel | |

- 7. vCenter Settings area
 - Configure the following:-
 - Under *Resource Pool
 - Select Browse
 - In the **Resource Pool** window
 - select the **Bangalore**
 - Select Submit

| * Reso | urce Pool | | |
|-----------------------|--|---|-------------------|
| /Regio | n01A/host/Bangalore/Resources | | |
| * Data | stores | | |
| Click Br | owse to select. | | |
| Networ | ſk | | |
| | | | |
| Sel | ect Instant Clone | Datastores | |
| 001 | oot motant orono | Dutuotoroo | |
| Selec | t the instant clone datastore: | to use for this Auto | oma |
| can b | e selected. | | |
| | | | |
| | | | |
| | Datastore | Capacity (GB) | F |
| | Q Q Cambusta | 500.75 | |
| - | | 599.75 | 2 |
| | | | |
| | | | |
| 🛦 w | arning | | × |
| | | | |
| You have s following. | selected a local datastore for your instant | clone farm. Please note the | |
| 1. If yo | u are deploying instant clones on a single | ESXI host with local datastor | re, you |
| two | st configure a cluster containing that single
or more ESXI hosts with local datastores, : | ESXI host. If you have a clus
select the local datastore fro | iter of
m each |
| of th | he hosts in the cluster. Instant clone creati
ation, VMWare High Availability, and vSobe | on fails otherwise.
re Distributed Resource Schi | eduler |
| (DRS | 5) are not supported. | | |
| 3. We i
driv | recommend that you use direct solid-stati
es may not have the throughput required | t Disks (SSDs), Local spinning
by instant clones. | -disk |
| | | _ | |
| | | Cancel | OK |
| | | | |

- 7. vCenter Settings area
 - Configure the following:-
 - Under ***Datastores**
 - Select Browse
 - In the **Resource Pool** window
 - next to CorpLun01a
 - select the radio button
 - Select Submit
 - In the Warning window
 - Select OK

| Add Farm - RDSH25-01a | |
|---|--|
| O Type | Default Image Actrix (1) denotes required field Actrix (2) denotes required field Actrix (2) denotes in Universe |
| VCenter Server | Gonesi ininge ini Konier //Region01A/vm/Discovered virtual machine/RDSH-01a Browse |
| Storage Optimization | * Snapshot //baceline Browse |
| Identification and Settings | Virtual Machine Location |
| Load Balancing Settings | * VM Folder Location //Region(13.4/m Browse |
| Provisioning Settings | Resource Settings |
| vCenter Settings | Cluster //Region01A/hos//Bangalore Browce |
| Guest Customization Ready to Complete | Besource heal Inspired history Brokes Brokes Instances Isolaced Brokes |
| | Network Golden image network solected Browce |
| VM Compute Profile Se | ettings |
| Review the default VM Compute | Profile settings and modify if needed. |
| * CPU | |
| * RAM | |
| 4 GB | |
| 2 © | |
| | Cancel Previous Next |

- 7. vCenter Settings area
 - Leave the VM Compute Profile Settings as default
 - Review your configurations
 - In the bottom right corner
 - Select Next

| Add Farm - RDSH25-01a | |
|--|--|
| Type VCenter Server Storage Optimization Identification and Settings | Asterisk (*) denotes required field C
Domain
euc-livefire com(administrator@euc-livefire.com) ~
* AD Contamer
CN=Computers Find Browse
Allow Reuse of Existing Computer Accounts ©
Image Publish Computer Accounts |
| euclivefire.com CH-Configuration CH-Configuration CH-Configuration CH-Foreign-SecurityPrincipals CH-Managed Service Accounts CH-Program Data CH-System CH-System | |
| | Submit |

- 8. Guest Customization area
 - Configure the following:-
 - Under ***AD Container**
 - Select Browse
 - In the AD Container window
 - expand OU=Corp
 - select OU=Computers, OU=Corp
 - Select Submit

| Add Farm - RDSH25-01a | |
|-------------------------------|--|
| 🕑 Туре | Asterisk (*) denotes required field |
| | Domain |
| ✓ vCenter Server | euc-livefire.com(administrator@euc-livefire.com) |
| | * AD Container |
| Storage Optimization | OU=Computers,OU=Corp |
| A Identification and Settings | Alloy Reuse of Existing Computer Accounts (1) |
| identification and settings | Image Publish Computer Account |

- 8. Guest Customization area
 - Configure the following:-
 - Under *AD Container
 - Next to Allow Reuse of Existing Computer Accounts
 - Select the CHECKBOX
 - In the bottom right corner
 - Select Next

| | 10 | PPCUSE At a |
|-----------------------------|--|-----------------------------|
| Туре | 10 | #D0459-019 |
| | Description | |
| worke seve | Access Group | 1 |
| Storage Optimization | Farm Settines | |
| | Darba de Disertas: Desenvol | Villeans Star |
| Identification and Settings | Desault Inspany Protocol | a province (start): |
| | Allow Users to Choose Protocol | Tes |
| Load Balancing Setangs | 30 Renderer | Manage using vSphere Client |
| Provisioning Settings | Pre-launch Session Timeout (Applications Only) | Never |
| | Empty Session Timeout (Applications Only) | immediate |
| vCenter Settings | When Timeout Occurs | Log Off |
| Guest Customization | Lago# Disconnected Sessions | immediate |
| Enadero Complete | Bypass Session Timeout | Disabled |
| | Allow Session Collaboration | Disabled |
| | Load Balancing Settings | |
| | Use Custom Script | Disabled |
| | Include Session Count. | Enabled |
| | CPU Usage Threshold | • |

- 9. Ready to Complete window
 - Review your configuration
 - Select Submit



| VMware Horizo | n* | |
|---|-------------|-------------------------------|
| C Updated 04/05/2023, 5:48 PM
Sessions
Problem vCenter VMs
Problem RDS Hosts | 0
0
0 | Machines
vCenter RDS Hosts |
| System Health | 2
Q | Recover Remove Fre |
| Sessions
Help Desk
Search Sessions
Users and Groups | Î | RDS Host |
| Inventory | ~ | |
| Applications | 1 | |
| Farms
Machines | | |
| | | |

- 25. In VMware Horizon Admin Console
 - under **Inventory**
 - select Machines
 - In the **Machines** area
 - select the **RDS Hosts** tab

| ▼ Filter | C ± |
|----------|-----------|
| | Status |
| | Available |
| | Available |
| | |
| | |

26. In the Machines / RDS area

- scroll to the right
- wait & keep refreshing the page until the **Status** says **Available** for both servers

There is a known bug which we are trying to resolve where both the newly created VMs may have the duplicate IP. However as a workaround, we would need to remove the network adaptor and re-add them for bot the newly created VMs

Part 3. Configuring Horizon Linux Multi-session published applications in VMware Horizon

We first publish applications in Site 1 and repeat the process in Section 2 for Site 2

Section 1. Linux Multi-session assignments with VMware Horizon for Site 1



- 1. In the Horizon Administration Console
 - Select Inventory > Applications

| VMware Horiz | on* | |
|--|---|---|
| C Updated 03/08/2023, 8:05 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health | ✓ ♀ <p< th=""><th>Application Pools Add Duplication Deplication Add Manually Add from Installed Applications</th></p<> | Application Pools Add Duplication Deplication Add Manually Add from Installed Applications |
| Help Desk
Users and Groups
Inventory
Desktops | ~ | Add from App Volumes Manager |
| Farms | | |

- 2. In the **Application Pools** area
 - Select Add
 - Select Add from installed Applications

| | Application Pool Type | |
|--------|-------------------------------|---|
| | Desktop Pool O | RDS Farm |
| | LinuxBLRFarm | |
| | Select installed applicat | ions |
| | 🗆 Name 🚽 | Pa |
| | Files | /u |
| | TeXInfo | /u |
| | dvanced Network Configuration | /usr/bin/nm-connection-editor |
| | sleRiot Solitaire | /usr/games/sol |
| Ar | chive Manager | /usr/bin/file-roller |
| Ba | ackups | /usr/bin/deja-dup |
| Ca | alculator | /usr/bin/gnome-calculator |
| 🗆 🗆 ca | alendar | /usr/bln/gnome-calendar |
| 0 ch | Select all Pages | //usr/bin/gnome_characters
Rows per page 20 ♥ 1 - 20 of 46 rows < < 1 / 3 > 5 |

- 3. In the Add Application Pool wizard
 - 1. Select Applications area

- To display alphabetically
 - select Name
- Under Name
 - Select the **checkbox** next to:-
 - Calculator

| Startup Applications | , |
|------------------------|-------------------------------|
| Startup Disk Creator | /usr/bin/usb-creator-gtk |
| Sudoku | /usr/games/gnome-sudoku |
| System Monitor | /usr/bin/gnome-system-monitor |
| Terminal | /usr/bin/gnome-terminal |
| 3 🔲 💽 Select all Pages | Rows per page |

- 4. In the Add Application Pool wizard
 - 1. Select Applications area
 - To move to page 2 of the menu
 - In the bottom right,
 - select the arrow
 - Under Name
 - select
 - Sudoku
 - Terminal



- 5. In the Add Application Pool wizard
 - Select Applications area
 - scroll down
 - select the **checkbox** next to:-
 - Pre-Launch
 - select Next

| Add Application Pool | | | |
|------------------------|-------------------------|---|----------|
| Select Applications | Edit the ID and display | y name for selected applications.
Display Name | Path |
| 2 Edit Applications | Terminal | Terminal | /usr/bir |
| | Calculator | Calculator | /usr/bir |
| | Sudoku | Sudoku | /usr/ga |
| | | | |
| | | | |
| | | | |
| | | | |
| Cancel Previous Submit | | | |

- 6. In the Add Application Pool wizard
 - 2. Edit Applications area
 - Select Submit

| Add Entitlements | | | × |
|---------------------------------|-----------------------------|---------------------|-----|
| Add new users and groups who is | n use the selected pools(). | | |
| Aut Benove | | | |
| O Name | domáin | imal | |
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| B CD records | | Rowt per page 🔯 😺 🔅 | 949 |
| | | | |
| | | Cancel | к |

- 7. In the **Add Entitlements** window
 - select Cancel

In a later exercise, Instead of creating a local Entitlement, we will create a single multisite Global Entitlement

| S my-ip.livefire.lab/ip 🔤 H | orizon®Site ' | 1 🚾 UAG-HZN-01a | UAG-HZN-01 | b <u> </u> Avi Vantag | e Control 🕑 vcenter-01a |
|--|---------------|---------------------------------|------------|--------------------------|-------------------------|
| VMware Horizo | on* | | | Cluster Cl | uster-HORIZON-01A |
| C Updated 04/05/2023, 5:48 PM
Sessions
Problem vCenter VMs | ×
و | Application | Pools | Delay | |
| Problem RDS Hosts
Events
System Health | 2
5
0 | Add Cess Group All | Dupiicate | | Application |
| Sessions | ^ | | S | ource | Display Name |
| Search Sessions | н. | <u>Calculator</u> <u>Sudoku</u> | N | ative Apps
ative Apps | Sudoku |
| Users and Groups
Inventory | ~ | Terminal | N | ative Apps | Terminal |
| Desktops
Applications | а. | | | | |
| Farms
Machines | | | | | |

8. In the **Application Pools area**

• Note the Site 1 published Linux Multi-session applications

Section 2. Linux Multi-session assignments with VMware Horizon for Site 2



- 1. On your ControlCenter server
 - from the **Taskbar**
 - select the Site 2 Browser Profile (red browser)



- 2. In the Site 2 browser profile
 - from the Favourites bar
 - select the Horizon Site 2 shortcut

| ١ | /Mware Horizon® |
|----------|--|
| \wedge | Session timed out, please login again. |
| ad | ministrator |
| | •••• |
| EU | C-LIVEFIRE ~ |
| ~ | Remember user name |
| | |
| | Sign in |

- 3. In VMware Horizon login page
 - in the **Username** area
 - enter administrator
 - in the **Password** area
 - enter VMware1!
 - select Sign in

If login fails, note the message to REFRESH your browser and try again



- 4. In the Horizon Administration Console
 - Select Inventory > Applications

| VMware Horiz | on* | | |
|--|-----------------------|------------------------------|---------|
| C Updated 03/08/2023, 8:05 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health | >
0
0
5
1 | Application Pools | De
v |
| Help Desk
Users and Groups
Inventory
Desktops | -
- | Add from App Volumes Manager | Source |
| Applications
Farms | | | |

- 5. In the Application Pools area
 - Select Add
 - Select Add from installed Applications

| Add Application Pool | |
|---|--|
| Select Applications Edit Applications | Application Pool Type Desktop Pool RDS Farm sea-FARM |
| | Select installed applications |
| | Name Path Additional Drivers /usr/bir |
| | |
| Advanced Network Configuration | /usr/bin/nm-connection-editor |
| AisleRiot Solitaire | /usr/games/sol |
| Archive Manager | /usr/bln/file-roller |
| Backups | /usr/bln/deja-dup |
| Calculator | /usr/bin/gnome-calculator |
| Calendar | /usr/bin/gnome-calendar |
| Characters | /usr/bln/gnome-characters |

6. In the Add Application Pool wizard

1. Select Applications area

- To display alphabetically
 - select Name
- Under Name
 - Select the **checkbox** next to:-
 - Calculator

| | Startup Applications | /usr/bin/gnome-session-propertie |
|-------------|---|----------------------------------|
| | Startup Disk Creator | /usr/bin/usb-creator-gtk |
| | Sudoku | /usr/games/gnome-sudoku |
| | System Monitor | /usr/bin/gnome-system-monitor |
| | Terminal | /usr/bin/gnome-terminal |
| | 3 🔟 🔘 Select all Pages | Rows per page |
| Conr
Non | Pre-Launch
nection Server Restrictions
e Browse | |

- 7. In the Add Application Pool wizard
 - 1. Select Applications area
 - To move to page 2 of the menu
 - In the bottom right,
 - select the arrow
 - Under Name
 - select
 - Sudoku
 - Terminal



- 8. In the Add Application Pool wizard
 - Select Applications area
 - scroll down
 - select the **checkbox** next to:-
 - Pre-Launch
 - select Next

| Add Application Pool | | | |
|------------------------|-------------------------|---|----------|
| Select Applications | Edit the ID and display | name for selected applications.
Display Name | Path |
| 2 Edit Applications | Terminal | Terminal | /usr/bir |
| | Calculator | Calculator | /usr/bir |
| | Sudoku | Sudoku | /usr/ga |
| | | | |
| | | | |
| | | | |
| | | | |
| Cancel Previous Submit | | | |

- 9. In the Add Application Pool wizard
 - 2. Edit Applications area
 - Select Submit

| Add Entitlements | | × | | |
|---------------------------------|-----------------------------|-----------------------|--|--|
| Add new users and groups who is | in use the selected pools0. | | | |
| Aut Remove | | | | |
| O Name | Dormáin | imal | | |
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| | | | | |
| | | Cancel OK | | |

- 10. In the **Add Entitlements** window
 - select Cancel
In a later exercise, Instead of creating a local Entitlement, we will create a single multisite Global Entitlement

| VMware Horizon®: Cluster-HOR | 🗙 🛃 vSphere - LinuxMast | er-2a - Snap 🗙 📔 | ÷ | |
|---|---|-------------------|----------------------------|------------------|
| ← → C 🏠 🔒 horizo | n-02a.euc-livefire.com/admir | n/#/main/apppoo | ls | |
| 🚾 UAG-HZN-02a 🛛 🚾 UAG-HZN- | 02b 🔤 Horizon ® Site 2 🚺 | Avi Vantage Contr | ol 🚱 vcenter-02a 🗧 | VRA 🔃 Carbo |
| VMware Horizon* | | | Cluster Clu | ster-HORIZON-02A |
| C [™] Updated 04/06/2023, 10:04 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health
2 | Application Pools Add Edit Duplicate Access Group All | Delete Enti | tlements Y Application Ico | n ~ More ~ |
| Monitor 🗸 🔶 | D ID | Source | Display Name | Pool or Farm |
| Dashboard | Calculator | Native Apps | Calculator | sea-FARM |
| Events | Sudoku | Native Apps | Sudoku | sea-FARM |
| Sessions | Terminal | Native Apps | Terminal | sea-FARM |
| Help Desk
Search Sessions | | | | |

11. In the Application Pools area

• Note the Site 2 published Linux Multi-session applications

In preparation for Part 4, switch to your Horizon Admin Console on Site 1

Part 4. Configuring Global Entitlements for the Multisession Assignments

In a multi-site setup, USABILITY of Enterprise applications can be critical. Users require a seamless user experience. As part of Cloud Pod Architecture we are able to setup Global Entitlements that give administrators the ability, to entitle users to Applications and Desktops in a multi-site scenario. This makes the application more USABLE in an Enterprise.

In Part 4, we fulfill the first steps in setting up a multi-site solution

Section 1. Configuring Global Entitlements for Published Applications on Site 1

| VMware Horizon*
Version 2212 |
|---------------------------------|
| administrator |
| ••••• |
| EUC-LIVEFIRE ~ |
| Remember user name |
| |
| Sign in |
| |

- 1. On your Site 1 Browser
 - Horizon Admin Console login
 - In the **Username** area
 - enter administrator
 - In the **Password a**rea
 - enter VMware1!
 - select Sign in



- 2. In the Horizon Admin console
 - Menu pane
 - below Inventory
 - select Global Entitlements

Step 1. Adding Calculator to Global Entitlements for Site 1



1. In the Global Entitlements area

select Add



- 2. In the Add Global Entitlement window
 - next to :
 - 1. **Type**
 - Next to Application entitlement a
 - select the radio button
 - In the bottom right-corner
 - select Next

| Add Global Entitlement | |
|----------------------------|--|
| Type Name and Policies | General
Asterisk (*) denotes required field
* Name
Enterprise Corp Calculator |
| 3 Users and Groups | Display Name
Calculator |
| Ready to Complete | Federation Access Group (1) |
| | Description |

- 3. In the Add Global Entitlement window
 - next to :
 - 2. Name and Policies
 - under Name
 - enter Enterprise Corp Calculator
 - under **Display Name**
 - enter Calculator

| Add Global Entitlement | | |
|------------------------|---|---|
| | Scope ① | • |
| 🕗 Туре | All Sites | |
| | Within Site | |
| Name and Policies | Within Pod | |
| | Use Home Site @ | |
| Unarr and Groups | Entitled user must have Home Site | |
| | Automatically Clean Up Redundant Sessions @ | |
| Ready to Complete | Default Display Protocol | |
| | VMware Blast ~ | |
| | Allow Users to Choose Protocol | |
| | No | |
| | Pre-Launch () | |
| | Client Restrictions | |
| | Multi-Session Mode @ | |
| | Disabled ~ | |
| | Cancel Previous Next | |
| | Ŧ | |
| Cancel Previous | Next | |

- 4. In the Add Global Entitlement window
 - next to :
 - 2. Name and Policies
 - under **Policies** > **Scope**
 - select the **radio button**
 - All Sites
 - under **Default Display Protocol**
 - from the dropdown
 - select VMware Blast
 - below Allow Users to Choose Protocol
 - from the **dropdown**
 - select NO
 - next to Pre Launch
 - select the Checkbox
 - In the bottom right-corner
 - select Next

| Add Global Entitlement | |
|------------------------|--|
| 🕑 Туре | Add users or groups to the global entitlement. |
| Name and Policies | User Name C |
| 3 Users and Groups | hin hin |
| Ready to Complete | NO |

- 5. In the Add Global Entitlement window
 - next to :
 - 3. Users and Groups
 - under Add users or groups to the global entitlement
 - select Add

| Fin | d User or Gr | roup | | | | | | > |
|------|--------------|----------------------|------|--------------|-------------|-----|-----------------------------|--------|
| Туре | | | | Users 🗹 | Groups | | | |
| Dom | ain | | Enti | re Directory | | | | |
| Vam | e/User Name | | Star | ts with | | , s | Sales | |
| Desc | ription | | Star | ts with | | | | |
| Fir | Name | User Name | | Email | Description | | In Folder | |
| | Sales | Sales/euc-livefire.o | om | Linan | Description | | euc-livefire.com/Corp/Sales | |
| | - an Date | ert al Daver | | | | | | |
| 1 | 1 🔟 💽 Dese | ect all Pages | | | | | Rowsperpage 20 V 1-1 of 1 | row(s) |
| | | | | | | | Cancel | ОК |

- 6. In the **Find User or Group** window
 - in line with **Name/User Name**
 - next to **Starts with**
 - enter Sales

under Description

- select Find
- under Name
 - next to sales
 - select the checkbox
- in the bottom right-corner
 - select OK

| Add Global Entitlement | | | | |
|------------------------|-------------------------------|-------------------|-------|--------------------------------------|
| 🕑 Туре | Add users or groups to the gi | obal entitiement. | | |
| Name and Policies | User Name | Domains | Email | |
| 3 Users and Groups | Sales | euc-livefire.com | | |
| Ready to Complete | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Select all Pages | | | Rows per page 20 ¥ 1 - 1 of 1 row(s) |
| | | | | Cancel Previous Next |

- 7. In the Add Global Entitlement window
 - next to :
 - Users and Groups
 - under Add users or groups to the global entitlement
 - select Add

| | Group | | | | , |
|---------------------|-----------------------------|------------------|-------------|--|---------|
| ype | | 🖌 Users 🔽 G | iroups | | |
| Oomain | | Entire Directory | | | ~ |
| lame/User Name | | Starts with | ~ | developers | |
| escription | | Starts with | Ŷ | | |
| Find | | | | | |
| | | | | | |
| | | | | | |
| Name | User Name | Email | Description | In Folder | |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |

- 8. In the **Find User or Group** window
 - in line with Name/User Name
 - next to Starts with
 - enter **Developers**
 - under Description
 - select Find
 - under Name
 - next to **sales**
 - select the checkbox
 - in the bottom right-corner
 - select OK

| Add Global Entitlement | | | | <u>`````````````````````````````````````</u> | | | | | |
|------------------------|---|------------------|-------|--|--|--|--|--|--|
| 🕗 Туре | Add users or groups to the global entitlement. Add Remove | | | | | | | | |
| Name and Policies | User Name | Domains | Email | | | | | | |
| 3 Users and Groups | Sales Developers | euc-livefire.com | | | | | | | |
| Ready to Complete | | | | Smutinernase 20 M 1, 2 of 2 mus | | | | | |
| | a seeconsepts | | | nows per page 20 V 1 - 2 of 2 rows | | | | | |
| | | | | Cancel Previous Next | | | | | |

- 9. In the Add Global Entitlement window
 - select Next

| Add Global Entitlement | | |
|------------------------|---|----------------------------|
| 🕑 Туре | Name | Enterprise Corp Calculator |
| | Display Name | Calculator |
| Name and Policies | Federation Access Group | 1 |
| Users and Groups | Connection Server Restrictions | None |
| | Category Folder | None |
| 4 Ready to Complete | User Assignment | Floating |
| | Scope | All Sites |
| | Use Home Site | Disabled |
| | Automatically Clean Up Redundant Sessions | Disabled |
| | Default Display Protocol | VMware Blast |
| | Allow Licere to Choose Protocol | Var |
| | | Cancel Previous Finish |

- 10. In the Add Global Entitlement window
 - 4. Ready to Complete section
 - in the bottom right-corner
 - select Finish

| lorizor | ۴ | Pod Cluster-H | IORIZON-01A |
|---------|---|--|---|
| АМ | ↓ <p< th=""><th>Global Entitlements Add Edit Delete Fede Access Group All Name Image: Comp Full Clone Desktop Image: Enterprise Comp Instant Clone</th><th>ration Group
Display Name
Developers
Enterprise_De</th></p<> | Global Entitlements Add Edit Delete Fede Access Group All Name Image: Comp Full Clone Desktop Image: Enterprise Comp Instant Clone | ration Group
Display Name
Developers
Enterprise_De |
| | 1 | C Enterprise Corp Calculator | Calculator |

11. In the Global Entitlements area

• select Enterprise Corp Calculator

| S my-ip.livefire.lab/ip 🔤 Hori | izon®Site 1 | l ym l | JAG-HZN | -01a 🗹 | m UAG- | HZN-01b | 🔼 Avi | i Van |
|--------------------------------|-------------|--------|---------|---------|--------|---------|----------|-------|
| VMware Horizon | ۴ | | | | | | Clu | ster |
| C Updated 04/06/2023, 10:24 AM | ~ | | | | | | | |
| Sessions | <u>0</u> | Ente | erpris | e Co | rp Ca | lculat | or | |
| Problem vCenter VMs | Q | Sum | mary | Local I | Pools | Users a | and Grou | ıps |
| Problem RDS Hosts | <u>0</u> | | | | | · · · · | | |
| Events | <u>6</u> | Edit | | | | | | |
| System Health | <u>0</u> | | | | | | | |
| Sessions | ^ | Gene | eral | | | | | |
| Hain Dack | | Name | | | | | | |

12. In the **Enterprise Corp Calculator** window

• select the Local Pools tab

| VMware Horizor | 1° | | | Cluste |
|---|------------------|---|------------------|----------------------|
| ² Updated 04/06/2023, 10:24 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts | >
0
0
0 | Enterpris
Summary | se Corp Ca | Users and Groups |
| Events
System Health
Sessions | <u>6</u>
0 | Add Add Number | r of pools shown | may be less than the |

13. In the Enterprise Corp Calculator window

- In the Local Pools tab area
 - select Add

| G |) Select Pools to
ore about addin | o Add. Only local pools matching certain global entitlement configurations are listed. <u>Learn</u>
<u>g.pools to global entitlements.</u> |
|---|--------------------------------------|---|
| | ID | Display Name |
| | Calculator | Calculator |
| | Sudoku | Sudoku |
| | Terminal | Terminal |
| | | ielect all Pages Rows per page 20 💙 1 - 3 of 3 row |

- 14. In the Assign Pools Enterprise Corp Calculator window
 - under ID
 - next to Calculator
 - select the checkbox
 - select Add



15. In the **VMware Horizon Admin** console

- Note your Global Entitlement now has a local assignment
 - called Calculator
- In menu pane
 - under **Inventory**
 - select Global Entitlements

Step 2. Adding Sudoku to Global Entitlements for Site 1



1. In the **Global Entitlements** area

select Add



- 2. In the Add Global Entitlement window
 - next to :
 - 1. **Type**
 - Next to Application entitlement
 - select the radio button
 - In the bottom right-corner
 - select Next

| Add Global Entitlement | |
|----------------------------|--|
| Type Name and Policies | General
Asterisk (*) denotes required field
* Name
Enterprise Corp Sudoku |
| 3 Users and Groups | Display Name
Sudoku |
| 4 Ready to Complete | Federation Access Group ① |
| | Description |

- 3. In the Add Global Entitlement window
 - next to :
 - 2. Name and Policies
 - under Name
 - enter Enterprise Corp Sudoku
 - under **Display Name**
 - enter Sudoku

| Score O | |
|---|--|
| All Sites Within Site | |
| Within Pod Use Home Site | |
| Entitled user must have Home Site Automatically Clean Up Redundant Sessions | |
| Default Display Protocol VMware Blast Allow Licers to Choose Protocol | × |
| No Pre-Launch | Ÿ |
| Client Restrictions Multi-Session Mode | |
| Disabled ~ | ext |
| | All Sites Within Site Within Pod Use Home Site (*) Entitled user must have Home Site Automatically Clean Up Redundant Sessions (*) Default Display Protocol (*) VMware Blast Allow Users to Choose Protocol No Pre-Launch (*) Client Restrictions (*) Multi-Session Mode (*) Disabled (*) |

- 4. In the Add Global Entitlement window
 - next to :
 - 2. Name and Policies
 - under Policies > Scope
 - select the **radio button**
 - All Sites
 - under **Default Display Protocol**
 - from the **dropdown**
 - select VMware Blast
 - below Allow Users to Choose Protocol
 - from the **dropdown**
 - select NO
 - next to **Pre Launch**
 - select the **Checkbox**
 - In the bottom right-corner
 - select Next

| Add Global Entitlement | |
|------------------------|--|
| 🕗 Туре | Add users or groups to the global entitlement. |
| Name and Policies | User Name |
| 3 Users and Groups | |
| Ready to Complete | No |

- 5. In the Add Global Entitlement window
 - next to :
 - 3. Users and Groups
 - under Add users or groups to the global entitlement
 - select Add

| Fin | d User or G | roup | | | | | > |
|------|-------------|---------------------|------|---------------|-------------|-------|-----------------------------------|
| ype | | | | Users 🛃 G | iroups | | |
| Dom | ain | | Enti | ire Directory | | | |
| lam | e/User Name | | Star | rts with | Ý | Sales | 5 |
| Desc | ription | | Star | rts with | v | | |
| Fir | Name | User Name | | Email | Description | | In Folder |
| | Sales | Sales/euc-livefire. | com | | | | euc-livefire.com/Corp/Sales |
| | | | | | | | |
| | 1 💷 🌑 Dese | ect all Pages | | | | R | owsperpage 20 💙 1 - 1 of 1 row(s) |
| | | | | | | | Cancel |

- 6. In the **Find User or Group** window
 - in line with **Name/User Name**
 - next to **Starts with**
 - enter Sales

under Description

- select Find
- under Name
 - next to sales
 - select the checkbox
- in the bottom right-corner
 - select OK

| Add Global Entitlement | | | | |
|------------------------|-------------------------------|-------------------|-------|--------------------------------------|
| 🕑 Туре | Add users or groups to the gi | obal entitiement. | | |
| Name and Policies | User Name | Domains | Email | |
| 3 Users and Groups | Sales | euc-livefire.com | | |
| Ready to Complete | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Select all Pages | | | Rows per page 20 ¥ 1 - 1 of 1 row(s) |
| | | | | Cancel Previous Next |

- 7. In the Add Global Entitlement window
 - next to :
 - Users and Groups
 - under Add users or groups to the global entitlement
 - select Add

| | Group | | | | , |
|---------------------|-----------------------------|------------------|-------------|--|---------|
| ype | | 🖌 Users 🔽 G | iroups | | |
| Oomain | | Entire Directory | | | ~ |
| lame/User Name | | Starts with | ~ | developers | |
| escription | | Starts with | Ŷ | | |
| Find | | | | | |
| | | | | | |
| | | | | | |
| Name | User Name | Email | Description | In Folder | |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |
| Name Developers | User Name
Developers/euc | Email | Description | In Folder
euc-livefire.com/Corp/Dev | elopers |

- 8. In the **Find User or Group** window
 - in line with Name/User Name
 - next to Starts with
 - enter **Developers**
 - under Description
 - select Find
 - under Name
 - next to **sales**
 - select the checkbox
 - in the bottom right-corner
 - select OK

| Add Global Entitlement | | | | <u>`````````````````````````````````````</u> | | | | | |
|------------------------|---|------------------|-------|--|--|--|--|--|--|
| 🕗 Туре | Add users or groups to the global entitlement. Add Remove | | | | | | | | |
| Name and Policies | User Name | Domains | Email | | | | | | |
| 3 Users and Groups | Sales Developers | euc-livefire.com | | | | | | | |
| Ready to Complete | | | | Smutinernase 20 M 1, 2 of 2 mus | | | | | |
| | a seeconsepts | | | nows per page 20 V 1 - 2 of 2 rows | | | | | |
| | | | | Cancel Previous Next | | | | | |

- 9. In the Add Global Entitlement window
 - select Next

| Add Global Entitlement | | |
|------------------------|--------------------------------|------------------------|
| Type | Federation Access Group | / |
| | Connection Server Restrictions | None |
| Name and Policies | Category Folder | None |
| Users and Groups | Scope | All Sites |
| | Use Home Site | Disabled |
| 4 Ready to Complete | Default Display Protocol | VMware Blast |
| | Allow Users to Choose Protocol | No |
| | Multi-Session Mode | Disabled |
| | Pre-Launch | Enabled |
| | Client Restrictions | Disabled |
| | Users and Groups | euc-livefire.com/Sales |
| | | Cancel Previous Finish |

- 10. In the Add Global Entitlement window
 - 4. Ready to Complete section
 - in the bottom right-corner
 - select Finish

| VMware Horizon* | Pod Clu | ister-HORIZON-01A |
|---|---|--------------------|
| C Updated 05/16/2023, 9:27 AM Sessions G
Problem vCenter VMs G
Problem RDS Hosts G
Events A
System Health 1 | Global EntitlementsAddEditDeleteAccess GroupAll | Federation Group ~ |
| | Name | Display Name |
| Inventory ~ | O Enterprise Corp Full Clone Des | ktop Developers |
| Desktops | O Enterprise Corp Instant Clone | Enterprise_Desktop |
| Applications | O Enterprise Corp Calculator | Calculator |
| Farms | O Enterprise Corp Sudoku | Sudoku |
| Machines | | |
| Clobal Entitlements | | |

- 11. In the **Global Entitlements** window
 - select Enterprise Corp Sudoku

| S my-ip.livefire.lab/ip 🔤 He | orizon®Site 1 | uag-HZN | V-01a 🛛 🗹 | UAG-HZN-01 | b <u> </u> Avi Va |
|--|---------------|-----------|-----------|------------|-------------------|
| VMware Horizo | on* | | | | Cluste |
| C Updated 04/06/2023, 11:10 AM
Sessions | <u>o</u> E | Enterpris | se Corp | o Sudok | u |
| Problem vCenter VMs
Problem RDS Hosts | <u>0</u> | Summary | Local Po | ols User | s and Groups |
| Events
System Health | <u>6</u>
0 | Edit | | | |
| Search Sessions | ^ | General | | | |

- 12. In the Enterprise Corp Sudoku window
 - select the Local Pools tab

| ← → C 🏠 🗎 horizon | -01a.euc-livefire.com/admin/#/main/global_entitlements |
|---|--|
| S my-ip.livefire.lab/ip 🧰 Horizon | ®Site 1 🚾 UAG-HZN-01a 🚾 UAG-HZN-01b 📉 Avi Va |
| VMware Horizon* | Cluste |
| C Updated 04/06/2023, 11:10 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health | Enterprise Corp Sudoku
Summary Local Pools Users and Groups |
| Search Sessions
Users and Groups | Number of pools shown may be less than the ID |
| Desktops | |

13. In the Enterprise Corp Sudoku window

- In the Local Pools tab area
 - select Add

| Assi | ign Pools - | Enterprise Corp Sudoku | × |
|--------|---------------------------------------|--|-----------|
| G
E |) Select Pools to
ore about adding | Add. Only local pools matching certain global entitlement configurations are listed. Learn pools to global entitlements. | |
| | ID | Display Name | |
| | Sudoku | Sudoku | |
| | | | |
| | 1 🔟 💭 Se | iect all Pages Rows per page 20 🕶 1 - 2 of 2 rov
Add Canc | vs
:el |

- 14. In the Assign Pools Enterprise Corp Sudoku window
 - under ID

- next to **Sudoku**
 - select the checkbox
- select Add

| vmw VMware Horizon | | |
|---|-------------|--|
| C Updated 04/06/2023, 11:10 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health | 0
0
0 | Enterprise Corp Sudoku Summary Local Pools Users and G Add |
| Search Sessions
Users and Groups
Inventory ~ | Î | Number of pools shown may be less that ID Display Name Sudoku |
| Desktops
Applications
Farms
Machines | | |
| Global Entitlements
Horizon Agents | | |

- 15. In the VMware Horizon Admin console
 - Note your **Global Entitlement** now has a local assignment
 - called Sudoku
 - In menu pane
 - under **Inventory**
 - select Global Entitlements

Step 3. Adding Terminal to Global Entitlements for Site 1



1. In the Global Entitlements area

select Add



- 2. In the Add Global Entitlement window
 - next to :
 - 1. **Type**
 - Next to Application entitlement
 - select the radio button
 - In the bottom right-corner
 - select Next

| Add Global Entitlement | |
|-------------------------------------|--|
| Type Type Name and Policies | General
Asterisk (*) denotes required field
* Name
Enterprise Corp Terminal |
| 3 Users and Groups | Display Name
Terminal |
| 4 Ready to Complete | Federation Access Group ③ |
| | Description |

- 3. In the Add Global Entitlement window
 - next to :
 - 2. Name and Policies
 - under Name
 - enter Enterprise Corp Terminal
 - under Display Name
 - enter Terminal

| Add Global Entitlement | |
|------------------------|---|
| 🥑 Туре | Scope All Sites Within Site |
| 2 Name and Policies | Within Pod Use Home Site |
| Users and Groups | Entitled user must have Home Site Automatically Clean Up Redundant Sessions |
| Ready to Complete | Default Display Protocol VMware Blast |
| | Allow Users to Choose Protocol |
| | Pre-Launch Client Restrictions Multi-Session Mode Disabled |
| | Cancel Previous Next |

- 4. In the Add Global Entitlement window
 - next to :
 - 2. Name and Policies
 - under **Policies** > **Scope**
 - select the **radio button**
 - All Sites
 - under **Default Display Protocol**
 - from the **dropdown**
 - select VMware Blast
 - below Allow Users to Choose Protocol
 - from the **dropdown**
 - select NO
 - next to **Pre Launch**
 - select the **Checkbox**
 - In the bottom right-corner
 - select Next

| Add Global Entitlement | |
|------------------------|--|
| 🕗 Туре | Add users or groups to the global entitlement. |
| Name and Policies | User Name |
| 3 Users and Groups | |
| Ready to Complete | No |

- 5. In the Add Global Entitlement window
 - next to :
 - 3. Users and Groups
 - under Add users or groups to the global entitlement
 - select Add

| Fin | d User or (| Group | | | : |
|-------|-------------|--------------------|------------------|-------------|-----------------------------------|
| ype | | | 🕑 Users 🗹 | Groups | |
| Dom | ain | | Entire Directory | | |
| lam | e/User Name | | Starts with | Ý | Sales |
| Descr | ription | | Starts with | v | |
| Fin | Name | Urer Name | Email | Description | in Folder |
| | Sales | Sales/euc-livefire | com | Description | euc-livefire.com/Corp/Sales |
| | | eselect all Dages | | | Brown page 1 - 1 of 1 mount |
| 1 | | eselect all Pages | | | Rows per page 20 V 1-1 of 1 row(s |
| | | | | | Cancel OK |

- 6. In the **Find User or Group** window
 - in line with **Name/User Name**
 - next to **Starts with**
 - enter Sales

under **Description**

- select Find
- under Name
 - next to sales
 - select the checkbox
- in the bottom right-corner
 - select OK

| Add Global Entitlement | | | | |
|------------------------|-------------------------------|-------------------|-------|--------------------------------------|
| 🕑 Туре | Add users or groups to the gi | obal entitlement. | | |
| Name and Policies | User Name | Domains | Email | |
| 3 Users and Groups | Sales | euc-livefire.com | | |
| Ready to Complete | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Select all Pages | | | Rows per page 20 ¥ 1 - 1 of 1 row(s) |
| | | | | Cancel Previous Next |

- 7. In the Add Global Entitlement window
 - next to :
 - Users and Groups
 - under Add users or groups to the global entitlement
 - select Add

| -in | d User or C | Group | | | | | | |
|------|-------------|-----------------|----------|-----------|-------------|------|-------------------------------|-----|
| ype | | | 🛃 Us | sers 🗹 G | roups | | | |
|)om | ain | | Entire | Directory | | | | Ŷ |
| lam | e/User Name | | Starts | with | ~ | deve | lopers | |
| lesc | ription | | Starts | with | Ŷ | | | |
| Fir | nd | | | | | | | |
| 2 | Name | User Name | | Email | Description | | In Folder | |
| | | Developers/euc- | livefire | | | | euc-livefire.com/Corp/Develop | ers |
| | Developers | | | | | | | |
| | Developers | | | | | | | |
| | Developers | | | | | | | |

- 8. In the **Find User or Group** window
 - in line with Name/User Name
 - next to **Starts with**
 - enter Developers
 - under Description
 - select Find
 - under Name
 - next to **sales**
 - select the checkbox
 - in the bottom right-corner
 - select OK

| Add Global Entitlement | | | | <u>`````````````````````````````````````</u> | | |
|------------------------|---|------------------|-------|--|--|--|
| 🕗 Туре | Add users or groups to the global entitlement. Add Remove | | | | | |
| Name and Policies | User Name | Domains | Email | | | |
| 3 Users and Groups | Sales Developers | euc-livefire.com | | | | |
| Ready to Complete | | | | Smutinernase 20 M 1, 2 of 2 mus | | |
| | a seeconsepts | | | nows per page 20 V 1 - 2 of 2 rows | | |
| | | | | Cancel Previous Next | | |

- 9. In the Add Global Entitlement window
 - select Next

| Add Global Entitlement | | |
|---------------------------------------|--------------------------------|--------------------------|
| 🔗 Type | Name | Enterprise Corp Terminal |
| | Display Name | Terminal |
| Name and Policies | Federation Access Group | 1 |
| Users and Groups | Connection Server Restrictions | None |
| | Category Folder | None |
| Ready to Complete | Scope | All Sites |
| | Use Home Site | Disabled |
| | Default Display Protocol | VMware Blast |
| | Allow Users to Choose Protocol | No |
| | Multi-Session Mode | Disabled |
| | PraJ aunch | Fayabulant |
| | | Cancel Previous Finish |

10. In the Add Global Entitlement window

- 4. Ready to Complete section
 - in the bottom right-corner
 - select Finish

| vmw VMware Horizor | ۹, | Pod Cluster-F | HORIZON-01A |
|--|-----------------------|---|--------------------|
| C Updated 05/16/2023, 9:27 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health | >
0
0
4
1 | Global Entitlements Add Edit Delete Fede Access Group All ✓ | eration Group Y |
| | -
- | Name | Display Name |
| Inventory | ~ | O Enterprise Corp Full Clone Desktop | Developers |
| Desktops | | O Enterprise Corp Instant Clone | Enterprise_Desktop |
| Applications | н. | O Enterprise Corp Calculator | Calculator |
| Farms | н. | O Enterprise Corp Sudoku | Sudoku |
| Machines | | O Enterprise Corp Terminal | Terminal |
| Global Entitlements | | | |
| Settings | ~ | | |

- 11. In the **Global Entitlements** window
 - select Enterprise Corp Terminal

| S my-ip.livefire.lab/ip 🧰 He | orizon®Site 1 | uag-Hzn | V-01a 🛛 🚾 | UAG-HZN-01b | 🔼 Avi Va |
|--|---------------|-----------|-----------|-------------|------------|
| VMware Horizo | on* | | | | Cluste |
| C Updated 04/06/2023, 11:10 AM
Sessions | <u>o</u> E | Enterpris | se Corp | Termina | al |
| Problem vCenter VMs
Problem RDS Hosts | <u>o</u> | Summary | Local Po | ols Users a | and Groups |
| Events
System Health | <u>6</u>
0 | Edit | | | |
| Search Sessions | ^ (| General | | | |

- 12. In the Enterprise Corp Terminal window
 - select the Local Pools tab

| ← → C ☆ 🗎 horizon | on-01a.euc-livefire.com/admin/#/main/global_entitlements |
|---|---|
| S my-ip.livefire.lab/ip 🚾 Horizo | on®Site 1 🛛 🧰 UAG-HZN-01a 🗯 UAG-HZN-01b 📉 Avi Va |
| VMware Horizon* | Cluste |
| C Updated 04/06/2023, 11:10 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts
Events
System Health | Enterprise Corp Terminal Summary Local Pools Users and Groups Add |
| Search Sessions
Users and Groups | Number of pools shown may be less than the |
| Inventory ~
Desktops | |

13. In the Enterprise Corp Terminal window

- In the **Local Pools** tab area
 - select Add

| \ssi | ign Pools | - Enterprise | Corp Terminal | × |
|--------|----------------------------------|--|--|---|
| G
m |) Select Pools
ore about addi | to Add. Only local poo
ng.pools to global ent | Is matching certain global entitlement configurations are listed. Learn itlements. | |
| | ID | Display Name | | |
| | Terminal | Terminal | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 1 🗉 🜑 | Deselect all Pages | Rows per page 20 💙 1 - 1 of 1 rows | 0 |
| | | | Add Cance | 2 |

- 14. In the Assign Pools Enterprise Corp Terminal window
 - under ID

- next to Terminal
 - select the checkbox
- select Add

| VMware Horizon* | _ |
|---|--|
| C Updated 04/06/2023, 10:04 AM Sessions G
Problem vCenter VMs G
Problem RDS Hosts G | Enterprise Corp Terminal Summary Local Pools Users and Gro |
| Events <u>10</u>
System Health <u>2</u>
Users and Groups | Add Delete O Number of pools shown may be less than |
| Inventory
Desktops
Applications
Farms | ID Display Name O Terminal |
| Machines
Global Entitlements
Horizon Agents | |

- 15. In the VMware Horizon Admin console
 - Note your **Global Entitlement** now has a local assignment
 - called Terminal

In preparation for Section 2, switch over to your Site 2 Browser

Section 2. Configuring Global Entitlements for Published Applications on Site 2



|) | VMware Horizon* |
|-----|--------------------|
| | |
| ac | dministrator |
| ••• | |
| EU | JC-LIVEFIRE ~ |
| | Remember user name |
| | |
| | Sign in |

- 1. On your Site 2 Browser
 - Horizon Admin Console login
 - In the **Username** area
 - enter administrator
 - In the **Password a**rea
 - enter VMware1!
 - select Sign in



- 2. In the Horizon Admin console
 - Menu pane
 - below Inventory
 - select Global Entitlements

Step 1. Adding Calculator to Global Entitlements for Site 2



1. In the **Global Entitlements** window

select Enterprise Corp Calculator

| 堙 UAG-HZN-02a 💆 U | AG-HZN-02b | Horizon® Site 2 | <u> Avi Vantage</u> Cor | ntrol 🛃 vce |
|--------------------------------|----------------------------|--------------------------|-------------------------|----------------|
| VMware Horizo | 'n° | | | |
| C Updated 04/06/2023, 10:04 AM | ~ | | | |
| Sessions | Ente | erprise Corp Ca | alculator | |
| Problem vCenter VMs | <u>♀</u> Sum | mary Local Pools | Users and Groups | Home Site Over |
| Problem RDS Hosts | <u>o</u> | | , | |
| Events | 10 Edit | | | |
| System Health | 2 | | | |
| | ▲ Gene | eral | | |
| Users and Groups | Name | | | |
| Inventory | Enterp | rise Corp Calculator | | |
| Desktops | Conne | tion Server Restrictions | | |

- 2. In the Enterprise Corp Calculator window
 - select the Local Pools tab
| VMware Horizor | °۱ | | | Cluste |
|---|---------------------|----------------------|------------------|----------------------|
| ² Updated 04/06/2023, 10:24 AM
Sessions
Problem vCenter VMs
Problem RDS Hosts | ۲
۵
۵ | Enterpris
Summary | Se Corp Ca | Users and Groups |
| Events
System Health
Sessions | <u>6</u>
0_
▲ | Add | r of pools shown | may be less than the |

3. In the Enterprise Corp Calculator window

- In the Local Pools tab area
 - select Add

| e | Select Pools to Add. Only local pools matching certain global entitlement configurations are listed. <u>Learn</u> more about adding pools to global entitlements. | | | | |
|---|---|--------------|--|--|--|
| | ID | Display Name | | | |
| | Calculator | Calculator | | | |
| | Sudoku | Sudoku | | | |
| | Terminal | Terminal | | | |
| | I I Select all Pages Rows per page 20 ♥ 1 · 3 of 3 rows | | | | |

- 4. In the Assign Pools Enterprise Corp Calculator window
 - under ID
 - next to Calculator
 - select the **checkbox**
 - select Add

| VIII UAG-HZN-02a VIII UAG- | HZN-026 🚾 Н | lorizon® Site 2 | <u> Avi Vantage</u> |
|--|----------------------------------|--|--|
| VMware Horizon* | | | |
| C Updated 04/06/2023, 10:04 AM
Sessions
Problem vCenter VMs
Problem RD5 Hosts
Events <u>1</u>
System Health | 2 Enterpri
2 Summary
2 Add | ISE CORD Ca
Local Pools | alculator
Users and Group |
| Users and Groups
Inventory ~
Desktops
Applications | Numb ID Calculat | er of pools shown Display tor Calculat | may be less than the second se |
| Farms
Machines
Global Entitlements | | | |
| Settings ×
Servers
Domains | | | |

- 5. In the VMware Horizon Admin console
 - Note your Global Entitlement now has a local assignment
 - called Calculator
 - In menu pane
 - under Inventory
 - select Global Entitlements

Step 2. Adding Sudoku to Global Entitlements for Site 2



1. In the Global Entitlements window

• select Enterprise Corp Sudoku



- 2. In the Enterprise Corp Sudoku window
 - select the Local Pools tab



3. In the Enterprise Corp Sudoku window

- In the Local Pools tab area
 - select Add

| Assi | ssign Pools - Enterprise Corp Sudoku | | | | |
|----------|--|--|-----------------------|--|--|
| ()
[] | Select Pools to Add. Only local pools matching certain global entitlement configurations are listed. Learn more about adding pools to global entitlements. | | | | |
| | ID | Display Name | | | |
| | Sudoku | Sudoku | | | |
| | 1421 1100 HAR | | | | |
| | 1 🔟 🔘 54 | elect all Pages Rows per page 20 ¥ 1 - | 2 of 2 rows
Cancel | | |

- 4. In the Assign Pools Enterprise Corp Sudoku window
 - under ID
 - next to Sudoku
 - select the checkbox
 - select Add



- 5. In the VMware Horizon Admin console
 - Note your Global Entitlement now has a local assignment
 - called Sudoku
 - In menu pane
 - under Inventory
 - select Global Entitlements

Step 3. Adding Terminal to Global Entitlements for Site 2



1. In the **Global Entitlements** window

select Enterprise Corp Terminal



2. In the Enterprise Corp Terminal window

• select the Local Pools tab



3. In the Enterprise Corp Terminal window

- In the Local Pools tab area
 - select Add



- 4. In the Assign Pools Enterprise Corp Terminal window
 - under ID
 - next to Terminal
 - select the checkbox
 - select Add



- 15. In the VMware Horizon Admin console
 - Note your **Global Entitlement** now has a local assignment
 - called Terminal

Part 5. Integrating Multi-session apps with Workspace ONE Access

In Part 5

- We will create Deep Links that will point to the Published Multi session Applications
- Each Web App link will then be assigned to the relevant security groups

Step 1. Deploying a Deep link for the Enterprise Corp Calculator Global Entitlement



- 1. On your ControlCenter server
 - Open your **Workspace ONE Access**, Admin console URL
 - Under Username
 - enter Administrator
 - Under Password
 - enter VMware1!
 - Select Sign In

| ← → C ☆ ● aw | v-livefirernelmarchdev.vidmpreview | v.com/ws1adminui/#/workspace | /resources/web-apps/list | |
|--|---|---|--|--|
| S my-ip.livefire.lab/ip 🧰 H | orizon®Site 1 🛛 🚾 UAG-HZN-01a 🖇 | 🟧 UAG-HZN-01b 🛛 📉 Avi Vantage | e Control 🚟 HZN Cloud 🛃 vi | |
| Unsupported VMware identity M
New updates available. Learn w | Manager Connectors (versions 19.03.0.1 and
hat's new in <u>Workspace ONE Access SaaS</u> | earlier) will be discontinued soon. Action release notes. Learn what's new in Hub | on Required if your organization is using
Services release notes. | |
| (R) Workspace ONE Acco | ess Q Search for users, groups | s, or applications | | |
| Monitor Accounts Reso | urces actings | | | |
| Web Apps | Web Apps | | | |
| Virtual Apps | Add and configure web applications | | | |
| Virtual Apps Collections | Virtual Apps Collections | | | |
| Policies | NEW | | IORE Y SETTINGS | |
| Global Launcher Preferences | Global Launcher Preferences Application Type | | | |
| | Nicrosoft Event | | Mob Application Link | |

- 2. In the Workspace ONE Access Console
 - select Resources
 - Under the Resources > WEB Apps area
 - select NEW

| New SaaS Application | |
|---|--|
| 1 Definition | Definition |
| 2 Configuration
3 Access Policies
4 Summary | Search ()
OR BROWSE FROM CATALOG
Name * ()
Enterprise Corp Calculator |
| | Description () |

- 3. In the New SaaS Application window
 - 1. In the Definition area
 - under Name
 - enter Enterprise Corp Calculator
 - under Icon

• select **SELECT FILE** ...

| Annalas w Navefals | ter. | | | | 8 | |
|--------------------|-----------------------------|--------------------|----------|-------|-----|--|
| iganize + New Ioli | | B | - | | 0 • | |
| Ouick access | Name | Date modified | lype | Size | | |
| Deskton 🖈 | calculator.png | 4/18/2023 12:32 PM | PNG File | 3 KB | | |
| Dowoloadr at | desktop-developer.jpg | 4/17/2023 6:22 PM | JPG File | 14 KB | | |
| Downloads yr | Enterprise Desktop.jpg | 4/17/2023 5:02 PM | JPG File | 8 KB | | |
| Documents 🖈 | Excel_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Pictures 🖈 | Microsoft Teams_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| Dump | notifications.png | 4/13/2023 1:49 PM | PNG File | 6 KB | | |
| icons | OneDrive_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| Site1 | OneNote_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| System32 | Outlook_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| | PowerPoint_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| This PC | QRCODE.png | 4/14/2023 11:03 AM | PNG File | 11 KB | | |
| 3D Objects | SharePoint_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Desktop | Skype_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Documents | 📧 sudokujpg | 4/18/2023 12:33 PM | JPG File | 7 KB | | |
| L Downloads | terminal.png | 4/18/2023 12:33 PM | PNG File | 1 KB | | |
| Advaire | uag.png | 3/23/2023 11:29 AM | PNG File | 15 KB | | |
| Music | Word_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| E Pictures | Yammer_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Videos | | | | | | |
| Local Disk (C:) | | | | | | |
| Network | | | | | | |
| horizon-01a.euc | | | | | | |
| 💻 tsclient 🔍 🗸 | | | | | | |

- 4. In the **File Explorer** > **Open** window
 - In the Quick Access pane
 - select **Desktop**
 - in the **Desktop** area
 - select software > software > lcons
 - in the **Icons** folder
 - select calculator.png
 - select Open

| New SaaS Application | | × |
|---|--|---|
| 1 Definition
2 Configuration
3 Access Policies
4 Summary | Definition Search Q Q OR BROWSE FROM CATALOS Name * Q Enterprise Corp Calculator | |
| | Description () | |
| | CANCEL | r |

- 5. In the **New SaaS Application** window
 - 1. In the **Definition** area
 - Select NEXT

| New SaaS Application | | | | | |
|----------------------|-------------------|---------------------------------------|--|--|--|
| | 1 Definition | Single Sign-On | | | |
| | 2 Configuration | Authentication Type • (j) | | | |
| | 3 Access Policies | SAML 2.0
OpenID Connect
SAML 11 | | | |
| | 4 Summary | SAML 2.0
Web Application Link | | | |

- 6. In the **New SaaS Application** window
 - 2. In the **Configuration** area
 - below Authentication Type *
 - from the **dropdown**
 - select Web Application Link

| New SaaS Application | |
|------------------------------|---|
| 1 Definition | Single Sign-On |
| 2 Configuration
3 Summary | Authentication Type * (i)
Web Application Link
Target URL *
https://corp.euc-livefire.com/portal/webclient/index.html?applicationName=Calculator |
| | Open in Workspace ONE Web |
| | |
| | CANCEL BACK NEXT |

- 7. In the New SaaS Application window
 - 2. In the **Configuration** area
 - below Target URL *
 - enter the following URL

https://corp.euc-livefire.com/portal/nativeclient/Calculator?action=startsession&desktopProtocol=BLAST&launchMinimized=false

- In the bottom right corner
 - select **NEXT**

| 8 | New SaaS Application | | × |
|---|--|---|---|
| | 1 Definition
2 Configuration
3 Summary | Definition Nume Enterprise Corp Calculator Description Terror For For For For For For For For For | |
| | | Open in Workspace ONE Web
No
CANCEL BACK SAVE & ASSIGN SAVE | 6 |

- 8. In the New Saas Application window,
 - 3. In the **Summary** section
 - Select SAVE & ASSIGN

| Assign | |
|---------------------------------------|-----------------|
| Selected App(s): Enterprise Corp Calc | culator |
| Users / User Groups | |
| Q deve | |
| 路 Developers@euc-livefire.com | Deployment Type |
| | |
| | |
| | |
| 1 | |

- 9. In the **Assign** window
 - Under Users / Groups
 - Enter Devel
 - Select Developers@euc-livefire.com

| Assign | |
|------------------------------------|-----------------|
| Selected App(s): Enterprise Corp C | Calculator |
| Users / User Groups | |
| Q sales | |
| 웡 Sales@euc-livefire.com | Noyment Type |
| 용 Developers@euc-livefire.com | Automatic |
| Selected Users / User Groups | Deployment Type |
| 格 Developers@euc-livefire.com | Automatic ~ |
| ਲ Sales@euc-livefire.com | Automatic ~ |
| | CANCEL SAVE |

10. In the **Assign** window

- Under Users / Groups
 - Enter sales
 - select sales@euc-livefire.com
- Under **Deployment** type
 - From the **dropdowns**
 - Ensure both Sales and Developers are set to
 - Automatic
- In the bottom right corner
 - select SAVE

| ources Integrations Settings | |
|---|----------------------|
| Web Apps
Add and configure web applications. | |
| NEW EDIT ASSIGN DELETE CATEGORIES V MORE V SETTINGS | |
| Application | Туре |
| Enterprise Full Clone Desktops | Web Application Link |
| C 🔰 AirWatch Provisioning | SAML 2.0 |
| Enterprise Corp Calculator | Web Application Link |
| Enterprise Instant Clone Windows 11 Desktops | Web Application Link |
| Image: A second se | Web Application Link |
| Kicrosoft Outlook | Web Application Link |
| Microsoft Powerpoint | Web Application Link |
| a Microsoft Word | Web Application Link |
| | SAML 2.0 |
| | |

- 11. In your **Workspace ONE Access** Console
 - Web Apps interface
 - Note your Enterprise Corp Calculator Web Application Link

Step 2. Deploying a Deep link for the Enterprise Corp Sudoku Global Entitlement



- 1. In the Workspace ONE Access Console
 - under the Resources > WEB Apps area
 - select NEW

| New SaaS Application | |
|---|---|
| 1 Definition | Definition |
| 2 Configuration3 Access Policies4 Summary | Search ()
C
OR BROWSE FROM CATALOG
Name * ()
Enterprise Sudoku
Description ()
Loon () |
| | SELECT FILE |

- 2. In the **New SaaS Application** window
 - 1. In the Definition area
 - under Name
 - enter Enterprise Sudoku
 - under Icon
 - select SELECT FILE ...

| ganize • New fold | der | | | | 800 4 | |
|-------------------|-----------------------------|--------------------|----------|-------|-------|--|
| ^ | Name | Date modified | Туре | Size | | |
| P Quick access | calculator.png | 4/18/2023 12:32 PM | PNG File | 3 KB | | |
| Desktop 🖈 | desktop-developer.jpg | 4/17/2023 6:22 PM | JPG File | 14 KB | | |
| 🕹 Downloads 🖈 | Enterprise Desktop.jpg | 4/17/2023 5:02 PM | JPG File | 8 KB | | |
| 🗟 Documents 💉 | Excel_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Pictures 🖈 | Microsoft Teams_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| Dump | notifications.png | 4/13/2023 1:49 PM | PNG File | 6 KB | | |
| icons | ConeDrive_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| Stel | OneNote_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Catan 17 | Outlook_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Systems2 | PowerPoint_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| This PC | CRCODE.png | 4/14/2023 11:03 AM | PNG File | 11 KB | | |
| 3D Objects | SharePoint_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Desktop | Skype_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Documents | 🖻 sudoku,jpg | 4/18/2023 12:33 PM | JPG File | 7 KB | | |
| Develoads | 🖻 terminal.png | 4/18/2023 12:33 PM | PNG File | 1 KB | | |
| - Downloads | 🖹 uag.png | 3/23/2023 11:29 AM | PNG File | 15 KB | | |
| Music | Word_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Pictures | Yammer_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Videos | | | | | | |
| Local Disk (C:) | | | | | | |
| Network | | | | | | |
| horizon-01a.euc | | | | | | |
| torlient v | | | | | | |

- 3. In the **File Explorer** > **Open** window
 - In the Quick Access pane
 - select **Desktop**
 - in the **Desktop** area
 - select software > software > lcons
 - in the **Icons** folder
 - select sudoku.jpg
 - select Open

| New SaaS Application | | × |
|--|--|---|
| I Definition 2 Configuration 3 Access Policies 4 Summary | Definition Search Q Q OR BROWSE PROM CATALOO Name * Enterprise Sudoku Description | X |
| | | |
| | CANCEL | α |

4. In the New SaaS Application window

- 1. In the **Definition** area
 - Select NEXT

| New SaaS Application | |
|----------------------|--|
| 1 Definition | Single Sign-On |
| 2 Configuration | Authentication Type • (j) |
| 3 Access Policies | SAML 2.0
OpenID Connect
SAML 1.1 |
| 4 Summary | SAML 2.0
Web Application Link |

- 5. In the **New SaaS Application** window
 - 2. In the **Configuration** area
 - below Authentication Type *
 - from the **dropdown**
 - select Web Application Link

| New SaaS Application | |
|----------------------|---|
| 1 Definition | Single Sign-On |
| 2 Configuration | Authentication Type * () |
| 3 Summary | Web Application Link |
| | Target URL •
https://corp.euc-livefire.com/portal/webclient/index.html?applicationName=Sudoku
Open in Workspace ONE Web
No |
| | CANCEL BACK NEXT |

- 6. In the **New SaaS Application** window
 - 2. In the **Configuration** area
 - below Target URL *
 - enter the following URL

https://corp.euc-livefire.com/portal/nativeclient/Sudoku?action=startsession&desktopProtocol=BLAST&launchMinimized=false

- In the bottom right corner
 - select **NEXT**

| New SaaS Application | | × |
|--|--|----|
| 1 Definition
2 Configuration
3 Summary | Definition Name Enterprise Sudoku Description con Categories Categories Configuration Authentication Type None Target URL Integr/Corpueuc-invefire.com/portal/webclient/index.html?applicationName=Sudoku Access Policies Open in Workspace ONE Web No | |
| | CANCEL BACK SAVE & ASSION SAV | τ. |

- 7. In the New Saas Application window,
 - 3. In the **Summary** section
 - Select SAVE & ASSIGN

| Assign | | |
|----------------------------------|-----------------|-----------------|
| Selected App(s): Enterprise Sude | oku | |
| Jsers / User Groups | | |
| Q dev | | |
| 器 Developers@euc-livefire.com | Deployment Type | Entitlement |
| | | rianments found |

- 8. In the **Assign** window
 - Under Users / Groups
 - Enter **Devel**
 - Select Developers@euc-livefire.com

| u | | | |
|-----------------|--|--|--|
| | | | |
| | | | |
| Deployment Type | | Entitlement Type | |
| Automatic | \sim | Include | \sim |
| | | | |
| | | | |
| | U
Deployment Type
<u>Automatic</u> | U
Deployment Type
<u>Automatic</u> | U
Deployment Type Entitlement Type
Automatic <u> Include</u> |

- 9. In the **Assign** window
 - Under Deployment type
 - From the **dropdown**
 - Developers are set to
 - Automatic

| Assign | |
|--|------|
| Application: 'Enterprise Sudoku' added successfully. | |
| Selected App(s): Enterprise Sudoku | |
| Users / User Groups | |
| Q sales | |
| 容 Sales@euc-livefire.com | Depl |
| 8, Developers@euc-livefire.com | A |
| | |

10. In the **Assign** window

- under Users / Groups
 - enter Sales
 - select Sales@euc-livefire.com

| Assign | | |
|--|--------|-----------------|
| Application: 'Enterprise Sudoku' added success | fully. | |
| Selected App(s): Enterprise Sudok | u | |
| Users / User Groups | | |
| Q sales | | |
| Selected Users / User Groups | | Deployment Type |
| 용 Developers@euc-livefire.com | | Automatic |
| 용 Sales@euc-livefire.com | | Automatic |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | CANCEL | SAVE |

11. In the **Assign** window

- Under Deployment type
 - From the **dropdown**
 - Developers are set to
 - Automatic
 - In the bottom right corner
 - select SAVE

| | ex dealer to data, groups, or appreciations |
|----------|---|
| its Reso | urces Integrations Settings |
| ions | Web Apps
Add and configure web applications. |
| | NEW EDIT ASSIGN DELETE CATEGORIES ~ MORE ~ |
| ferences | Application |
| | Enterprise Full Clone Desktops |
| | C SirWatch Provisioning |
| | Enterprise Corp Calculator |
| | Enterprise Instant Clone Windows 11 Desktops |
| | Enterprise Sudoku |
| | Enterprise Terminal |
| | Image: Microsoft Excel |
| | Microsoft Outlook |
| | Microsoft Powerpoint |

- 12. In your **Workspace ONE Access** Console
 - Web Apps interface
 - Note your Enterprise Sudoku Web Application Link

Step 3. Deploying a Deep link for the Enterprise Corp Terminal Global Entitlement



- 1. In the Workspace ONE Access Console
 - under the Resources > WEB Apps area
 - select NEW

| New SaaS Application | |
|--------------------------------------|--|
| 1 Definition | Definition |
| 2 Configuration
3 Access Policies | |
| 4 Summary | Name * ①
Enterprise Terminal
Description ① |
| | Icon ()
SELECT FILE |

- 2. In the **New SaaS Application** window
 - 1. In the Definition area
 - under Name
 - enter Enterprise Terminal
 - under Icon
 - select SELECT FILE ...

| Irganize • New fol | der | | | | 80 - | |
|--------------------|-----------------------------|--------------------|----------|-------|------|--|
| ^ | Name | Date modified | Туре | Size | | |
| A Quick access | calculator pop | 4/18/2023 12:32 PM | PNG File | 3.68 | | |
| Desktop 🖈 | desktop-developes.ipg | 4/17/2023 6-22 PM | IPG File | 14 KB | | |
| 🕂 Downloads 🖈 | Enterprise Desktop.jpg | 4/17/2023 5:02 PM | JPG File | 8 KB | | |
| 🗎 Documents 🖈 | Excel 128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Pictures # | Microsoft Teams 128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| Dump | notifications.png | 4/13/2023 1:49 PM | PNG File | 6 KB | | |
| icons | OneDrive_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| Cited 1 | OneNote_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Site: | Outlook_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| System32 | PowerPoint_128x128.png | 3/6/2023 2:28 PM | PNG File | 4 KB | | |
| This PC | QRCODE.png | 4/14/2023 11:03 AM | PNG File | 11 KB | | |
| 3D Objects | SharePoint_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Desktop | Skype_128x128.png | 3/6/2023 2:28 PM | PNG File | 5 KB | | |
| Documents | 🖹 sudokujpg | 4/18/2023 12:33 PM | JPG File | 7 KB | | |
| Developed | 🧟 terminal.png | 4/18/2023 12:33 PM | PNG File | 1 KB | | |
| Downloads | 🖻 uag.png | 3/23/2023 11:29 AM | PNG File | 15 KB | | |
| Music | Word_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Pictures | Yammer_128x128.png | 3/6/2023 2:28 PM | PNG File | 3 KB | | |
| Videos | | | | | | |
| 🏪 Local Disk (C:) | | | | | | |
| A Network | | | | | | |
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| honzon-01a.euc | | | | | | |
| 💻 tsclient 🔍 🗸 | | | | | | |

- 3. In the **File Explorer** > **Open** window
 - In the Quick Access pane
 - select **Desktop**
 - in the **Desktop** area
 - select software > software > lcons
 - in the **Icons** folder
 - select terminal.png
 - select Open

| New SaaS Application | | × |
|--|--|---|
| 1 Definition 2 Configuration 3 Access Policies 4 Summary | Definition Search Q Q OR BROWSE PROM CATALOS Name Q Enterprise Terminal Description Q | |
| | Icon ()
SELECT FILE
Category () | |
| | CANCEL | а |

4. In the New SaaS Application window

- 1. In the **Definition** area
 - Select NEXT

| New SaaS Application | |
|----------------------|--|
| 1 Definition | Single Sign-On |
| 2 Configuration | Authentication Type • (j) |
| 3 Access Policies | SAML 2.0
OpenID Connect
SAML 1.1 |
| 4 Summary | SAML 2.0
Web Application Link |

- 5. In the **New SaaS Application** window
 - 2. In the **Configuration** area
 - below Authentication Type *
 - from the **dropdown**
 - select Web Application Link

| New SaaS Application | |
|------------------------------|--|
| 1 Definition | Single Sign-On |
| 2 Configuration
3 Summary | Authentication Type • ()
Web Application Link
Target URL • |
| | Open in Workspace ONE Web () |
| | |
| | CANCEL BACK NEXT |

- 6. In the **New SaaS Application** window
 - 2. In the **Configuration** area
 - below Target URL *
 - enter the following URL

https://corp.euc-livefire.com/portal/nativeclient/Terminal?action=startsession&desktopProtocol=BLAST&launchMinimized=false

- In the bottom right corner
 - select NEXT

| New SaaS Application | | × |
|--|--|----|
| 1 Definition
2 Configuration
3 Summary | Definition Name Enterprise Terminal Description kon Categories Configuration Authentication Type None Target URL https://corp.euc-livefire.com/portal/webclient/index.html?applicationName=Terminal Access Policies Open in Workspace ONE Web No | |
| | CANCEL BACK SAVE & ASSION SA | VE |

- 7. In the New Saas Application window,
 - 3. In the **Summary** section
 - Select SAVE & ASSIGN

|) Application: 'Enterprise Terminal' added successfully. | |
|--|-----------------|
| Selected App(s): Enterprise Terminal | |
| Jsers / User Groupe | |
| Q Search for Users or Groups | |
| Selected Users / User Groups | Deployment Type |
| 용 Developers@euc-livefire.com | Automatic |
| | |

- 8. In the **Assign** window
 - Under **Users / Groups**
 - Enter Devel
 - Select Developers@euc-livefire.com

| Deployment Type |
|-----------------|
| Automatic |
| |

- 9. In the Assign window
 - Under Deployment type
 - From the **dropdown**
 - Developers are set to
 - Automatic

| Assign | ``` |
|---|--------------|
| Application: 'Enterprise Terminal' updated su | iccessfully. |
| Selected App(s): Enterprise Term | ninal |
| Users / User Groups | |
| Q sales | |
| 路 Sales@euc-livefire.com | loyment Type |
| 용 Developers@euc-livefire.com | Automatic |

10. In the **Assign** window

- under Users / Groups
 - enter Sales
 - select Sales@euc-livefire.com



- 11. In the Assign window
 - Under **Deployment** type
 - From the dropdown
 - Developers are set to
 - Automatic
 - In the bottom right corner
 - select SAVE

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|--|---|
| (8) Workspace ONE Access | s Q Search for users, groups, or applications |
| Monitor Accounts Resource | ces Integrations Settings |
| Web Apps
Virtual Apps
Virtual Apps Collections | Web Apps
Add and configure web applications. |
| Policies | NEW EDIT ASSIGN DELETE CATEGORIES ~ |
| Global Launcher Preferences | Application |
| | Enterprise Full Clone Desktops |
| | AirWatch Provisioning |
| | Enterprise Corp Calculator |
| | Enterprise Instant Clone Windows 11 Desktops |
| | Enterprise Sudoku |
| | Enterprise Terminal |
| | Microsoft Excel |
| | Microsoft Outlook |
| | Microsoft Powerpoint |

- 12. In your Workspace ONE Access Console
 - Web Apps interface
 - Note your Enterprise Terminal Web Application Link

Part 6 Testing Multi-Session Horizon integration with Workspace ONE Access using CPA Global Entitlements

We will conclude this entire lab with a test to validate the configuration we have implemented

Testing Multi-session Horizon Integration with Workspace ONE Access



- 1. On your Control Center server
 - On your Chrome browser
 - Open up an Incognito session
 - In the address bar enter your Workspace ONE Access tenant url

| Microsoft | |
|------------------------------|------|
| ign in | |
| aig@corpXXX.euc-livefire.com | |
| n't access your account? | |
| | |
| | Next |
| | Next |

- 2. In the **Microsoft Sign in** window
 - enter
 - craig@corpXXX.euc-livefire.com
 - where XXX is your assigned Domain ID

select Next

| ← craig@corp19r.euc-livefire.com
Enter password | | | |
|---|---|--------------------|---------|
| | | Forgot my password | |
| | | | Sign in |
| | | | |
| | | | |
| Microsoft | | | |
| Iviterosoft | | | |
| raig@corp19r.euc-li | vefire.com | | |
| raig@corp19r.euc-li
Stay signed i | vefire.com | | |
| raig@corp19r.euc-li
Stay signed i
Do this to reduce the
o sign in. | vefire.com
n?
number of times you are asked | | |
| raig@corp19r.euc-li
Stay signed i
Do this to reduce the
o sign in.
Don't show this a | vefire.com
n?
e number of times you are asked
again | | |

- 3. In the Microsoft Sign in window
 - Under Enter password
 - enter VMware1!
 - select Sign in
 - In the Stay signed in? window
 - select NO
| • | Favorites VMware Intelligent Hu × + | | | | | | | | | | | | | | |
|---|---------------------------------------|---------|----------|----------|---------|-----------|------|-----------|-----------|---------|-------|---------|--------|-------------|---|
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| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

4. In the web Intelligent Hub

Select Apps



5. In the web Intelligent Hub

- Under New Apps
 - select Enterprise Corp Calculator

| Undo | Basi | c ~ 🔳 | - | • × | |
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- 6. On your ControlCenter session
 - Note your Calculator has launched
 - Feel free to try launch Sudoku & Terminal