

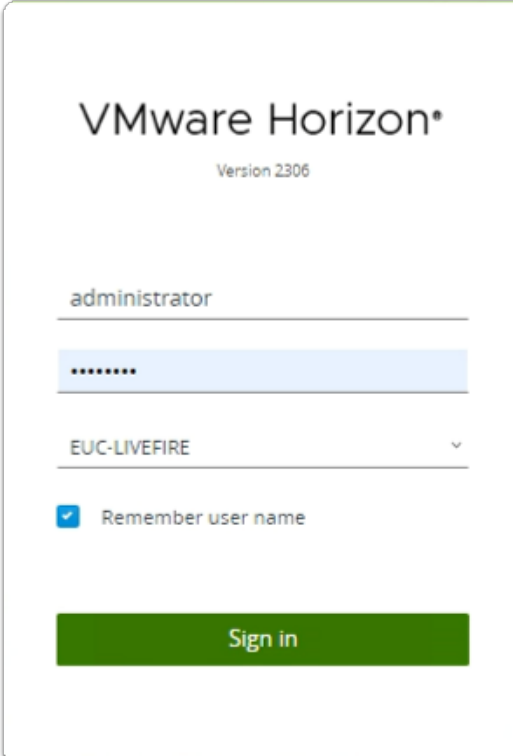
3. Configuring Horizon Cloud Pod Architecture

i In this section we will be enabling VMware Horizon Cloud Pod Architecture for a Multi-site implementation.
In a previous lab you have already enabled a **3rd Global Load-balancer** which is a requirement

Part 1. Cleaning up Local Entitlements for Desktop Pools

To complete our Day 1 Tasks, our Desktop Pools were configured with local entitlements. Specific Local Entitlements will be cleared on both Site 1 and Site 2.
We will clean this out before we start off with implementing VMware Horizon Cloud Pod Architecture

Step 1. Cleaning out Local Entitlements on Site 1



VMware Horizon*

Version 2306

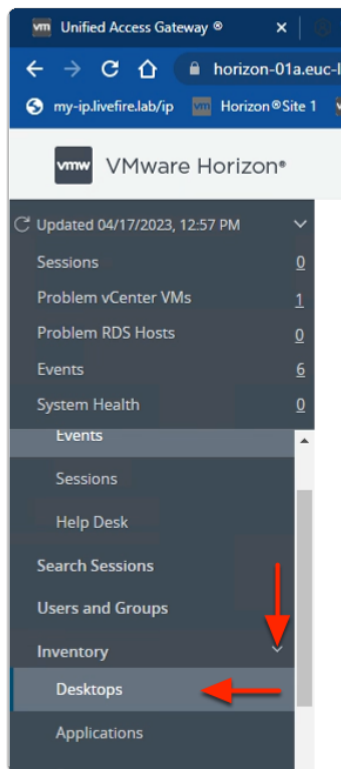
administrator

EUC-LIVEFIRE

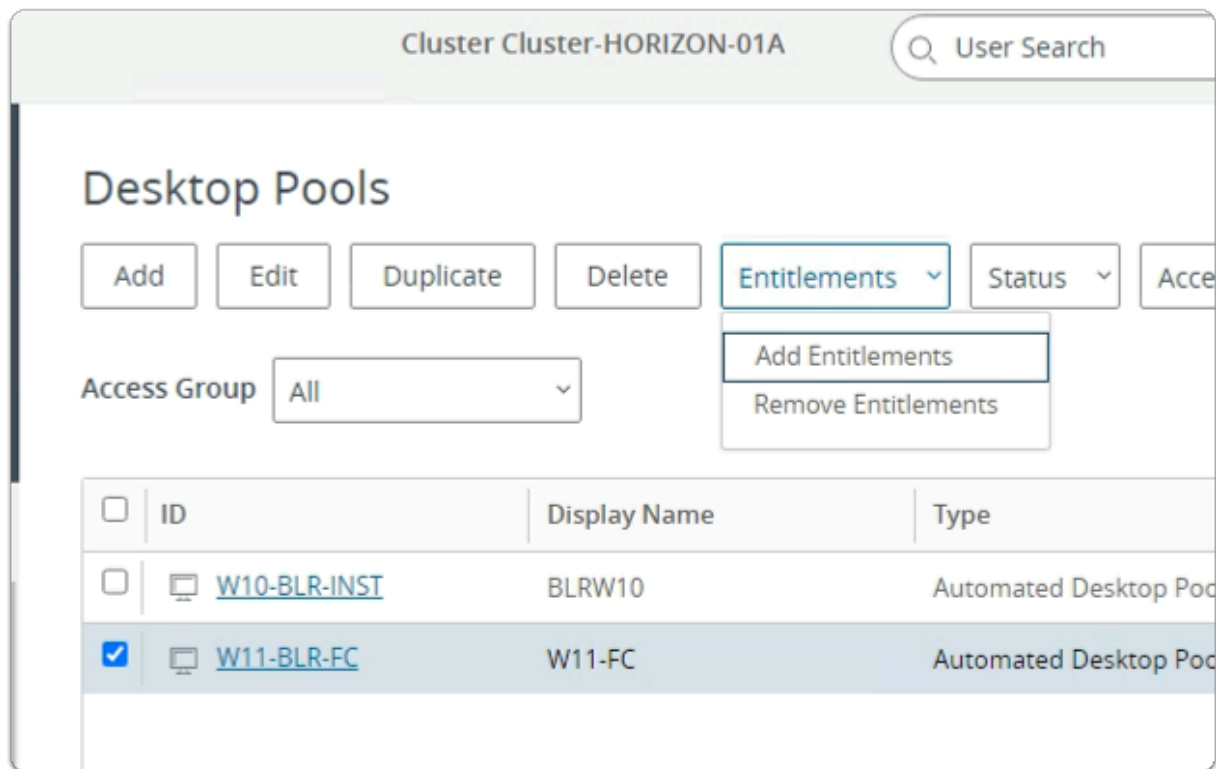
☒ Remember user name

Sign in

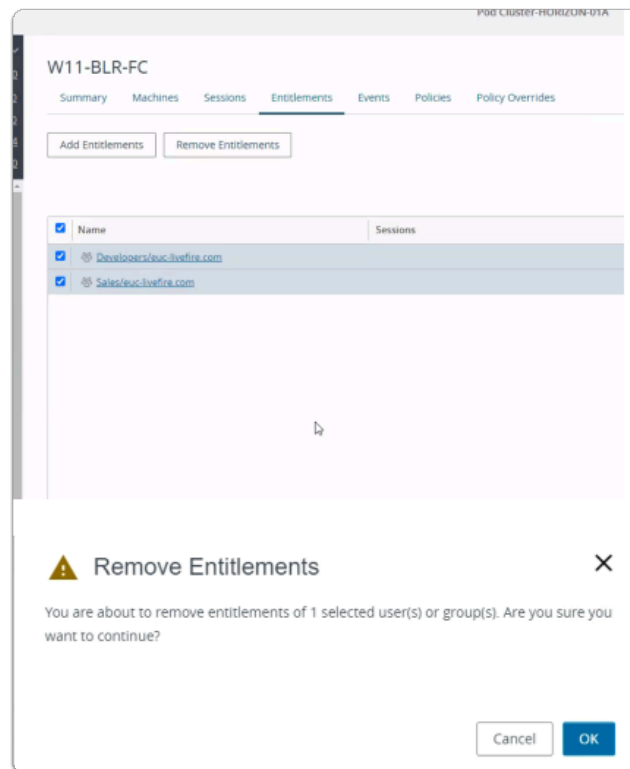
1. On your ControlCenter server
 - Open your **site 1** browser
 - In the **favourites bar**
 - select the **Horizon** shortcut
 - In the **VMware Horizon** login page
 - In the **Username** area
 - enter **administrator**
 - In the **Password** area
 - enter **VMware1!**
 - select **Sign in**



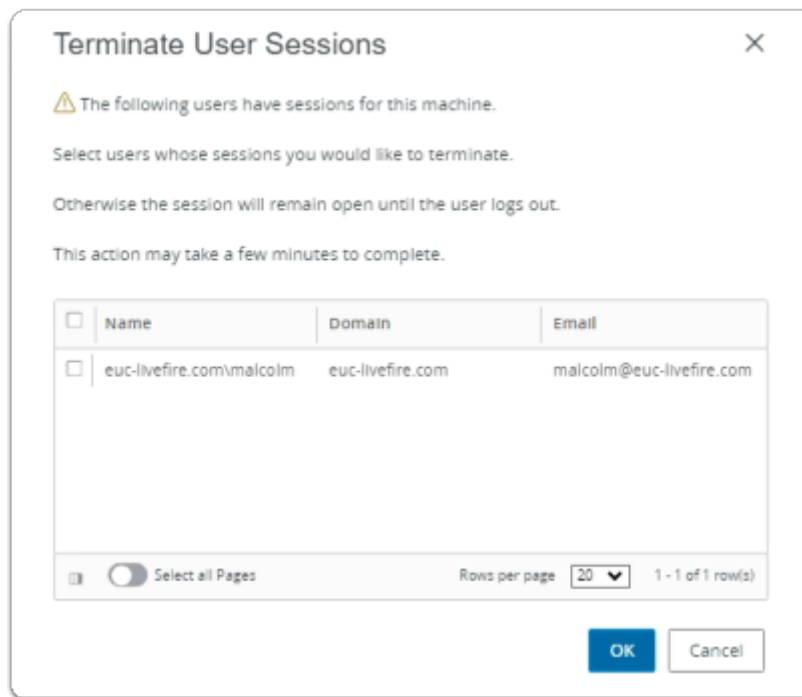
2. In the **Horizon Admin Console**
 - In the **Side Menu pane**
 - expand **Inventory**
 - select **Desktops**



3. In the **Desktop Pools** area
 - next to **W11-BLR-FC**
 - select the **Checkbox**
 - next to **Entitlements**
 - from the **dropdown**
 - select **Remove Entitlements**

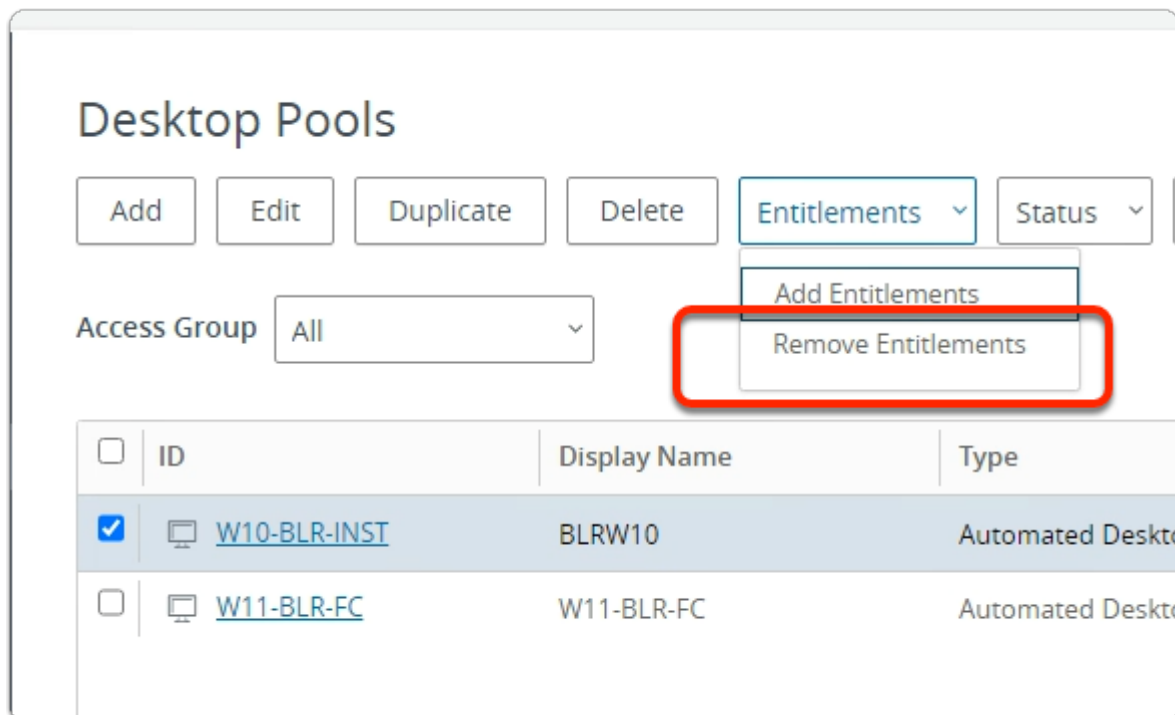


4. In the **Remove Entitlements** window
 - next to
 - **Developers/euc-livefire.com**
 - **Sales/euc-livefire.com**
 - select the **checkbox**
 - select **OK**
 - when prompted with the **Remove Entitlements** window
 - select **OK**



5. Please Note

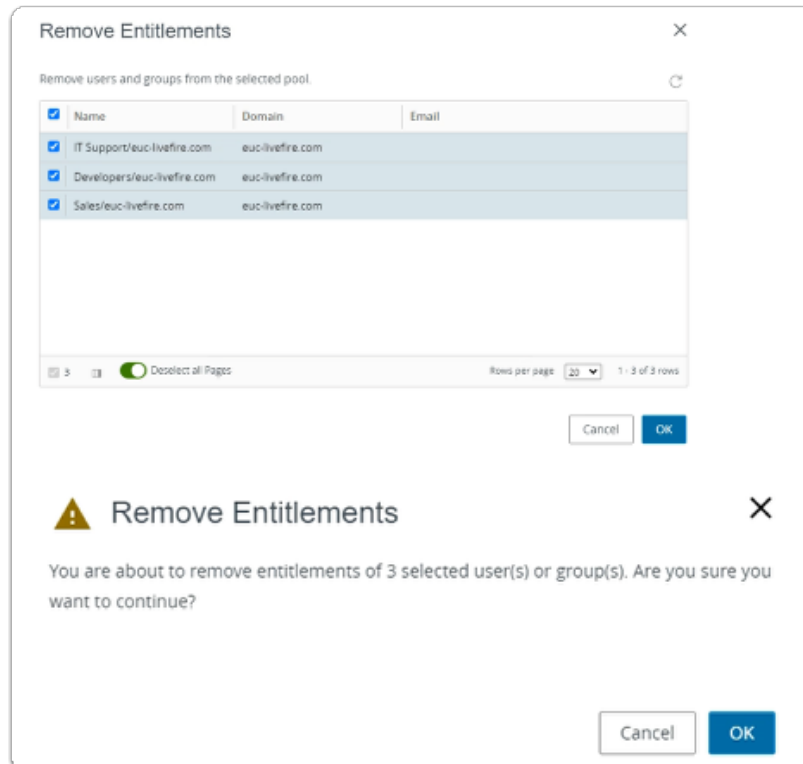
- If prompted to **Terminate User Sessions**
 - select **OK**



6. In the **Desktop Pools** area

- next to **W10-BLR-INST**
 - select the **Checkbox**
- next to **Entitlements**

- from the **dropdown**
 - select **Remove Entitlements**



7. In the **Remove Entitlements** window
 - next to
 - **Developers/euc-liveware.com**
 - **Sales/euc-liveware.com**
 - **IT Support/euc-liveware.com**
 - select the **checkbox**
 - select **OK**
 - when prompted with the **Remove Entitlements** window
 - select **OK**

×

Terminate User Sessions

⚠

The following users have sessions for this machine.

Select users whose sessions you would like to terminate.

Otherwise the session will remain open until the user logs out.

This action may take a few minutes to complete.

<input type="checkbox"/>	Name	Domain	Email
<input type="checkbox"/>	euc-liveware.com\malcolm	euc-liveware.com	malcolm@euc-liveware.com

☰

Select all Pages

Rows per page

20

1 - 1 of 1 row(s)

OK

Cancel

8. Please Note

- If prompted to **Terminate User Sessions**
 - select **OK**

Step 2. Cleaning out Local Entitlements on Site 2

VMware Horizon®

Version 2306

administrator

.....

EUC-LIVEFIRE

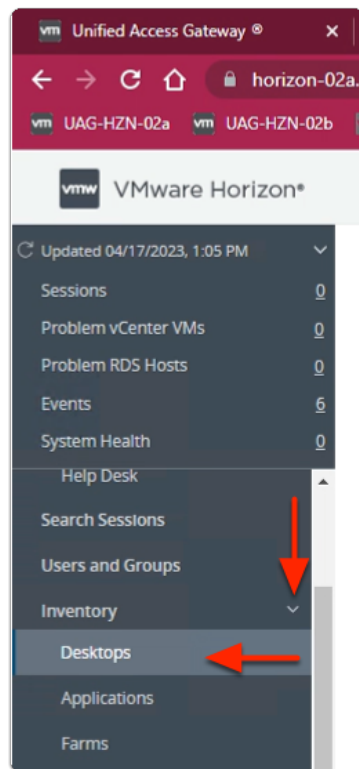
▼

☐

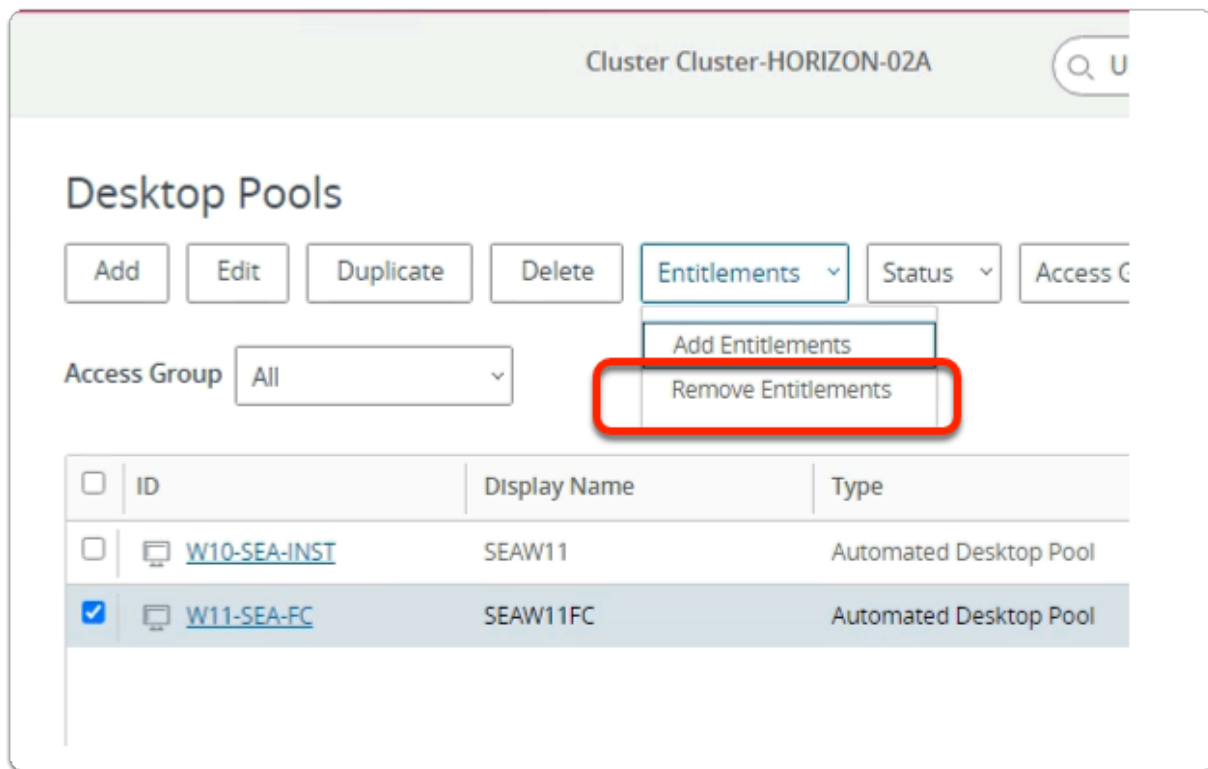
Remember user name

Sign in

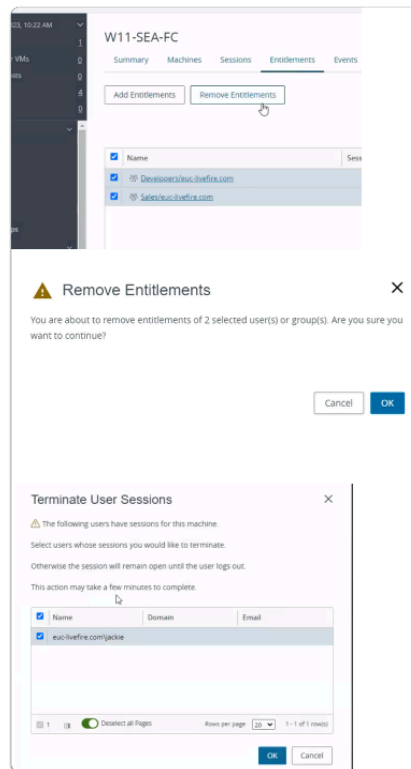
1. On your ControlCenter server
 - Open your **site 2** browser
 - In the **favourites bar**
 - select the **Horizon** shortcut
 - In the **VMware Horizon** login page
 - In the **Username** area
 - enter **administrator**
 - In the **Password** area
 - enter **VMware1!**
 - select **Sign in**



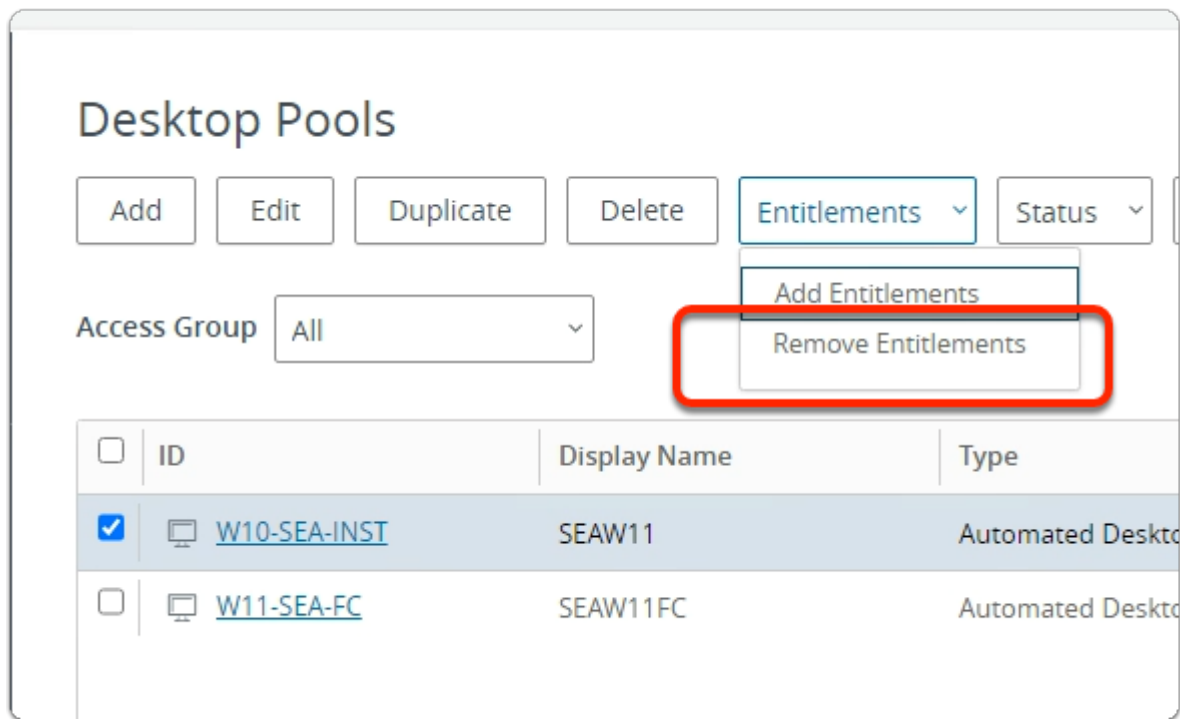
2. In the **Horizon Admin Console**
 - In the **Side Menu pane**
 - expand **Inventory**
 - select **Desktops**



3. In the **Desktop Pools** area
 - next to **W11-SEA-FC**
 - select the **Checkbox**
 - next to **Entitlements**
 - from the **dropdown**
 - select **Remove Entitlements**

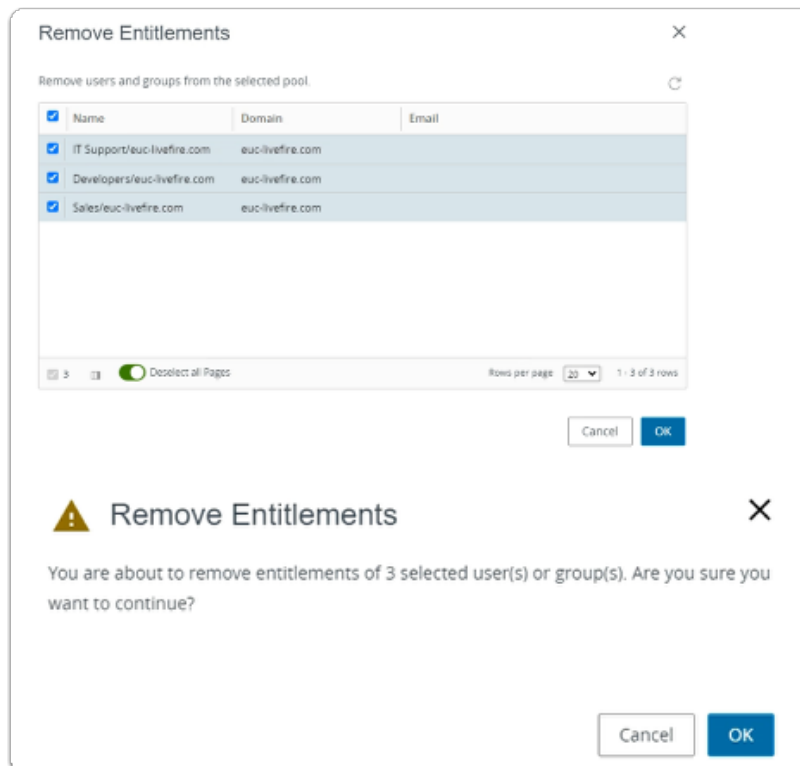


4. In the **Remove Entitlements** window
 - next to
 - **Developers/euc-livefire.com**
 - **Sales/euc-livefire.com**
 - select the **checkbox**
 - select **OK**
 - If prompted **Terminate User sessions**
 - select **OK**
 - In the **Remove Entitlements** window
 - select **OK**

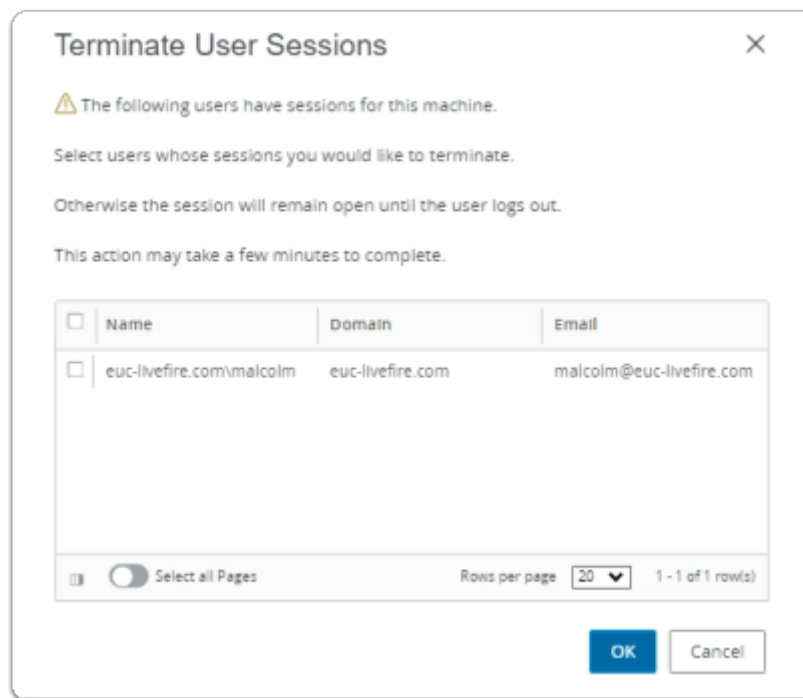


5. In the **Desktop Pools** area

- next to **W10-SEA-INST**
 - select the **Checkbox**
- next to **Entitlements**
 - from the **dropdown**
 - select **Remove Entitlements**



6. In the **Remove Entitlements** window
 - next to
 - **Developers/euc-livfire.com**
 - **Sales/euc-livfire.com**
 - **IT Support/euc-livfire.com**
 - select the **checkbox**
 - select **OK**
 - when prompted with the **Remove Entitlements** window
 - select **OK**

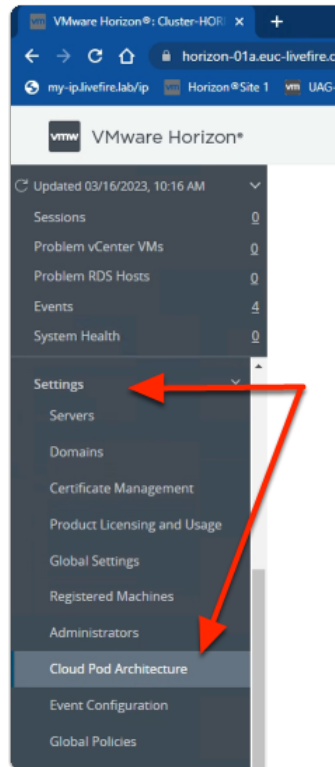


7. Please Note
 - If prompted to **Terminate User Sessions**
 - select **OK**

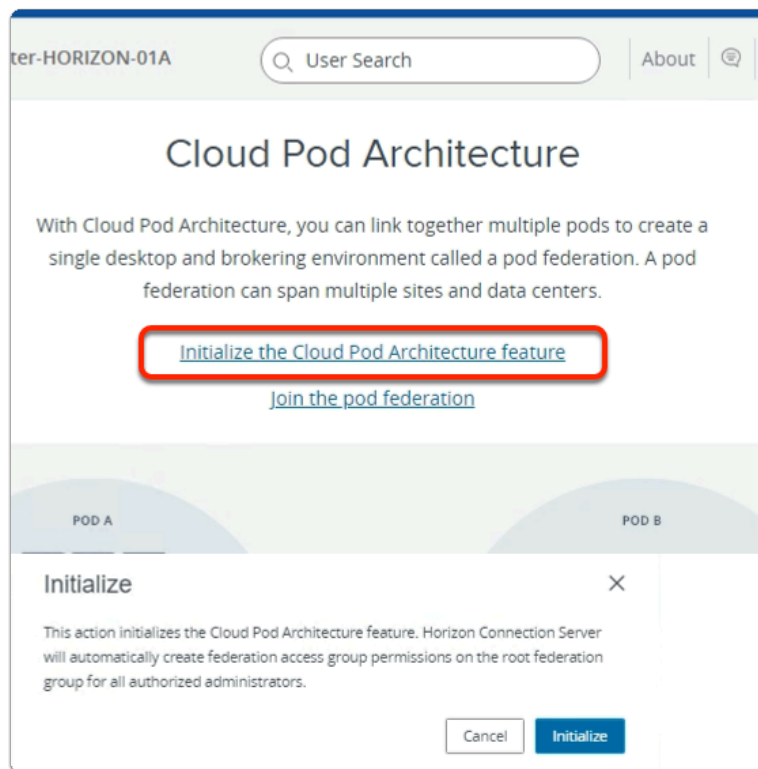
Part 2. Deploying VMware Cloud Pod Architecture for multi-site

We will Initialize VMware Cloud Pod Architecture on Site 1 and do a Federation Join on Site 2

Deploying VMware Cloud Pod Architecture

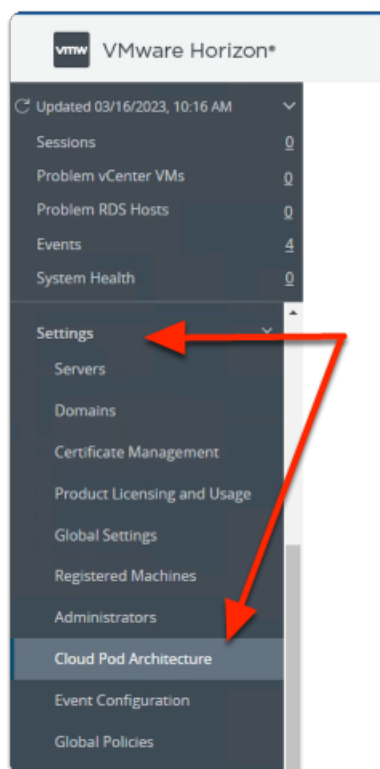


1. On your **Site 1 Browser**
 - In the **Horizon Admin Console**
 - In the **Inventory** pane
 - under **Settings**
 - select **Cloud Pod Architecture**



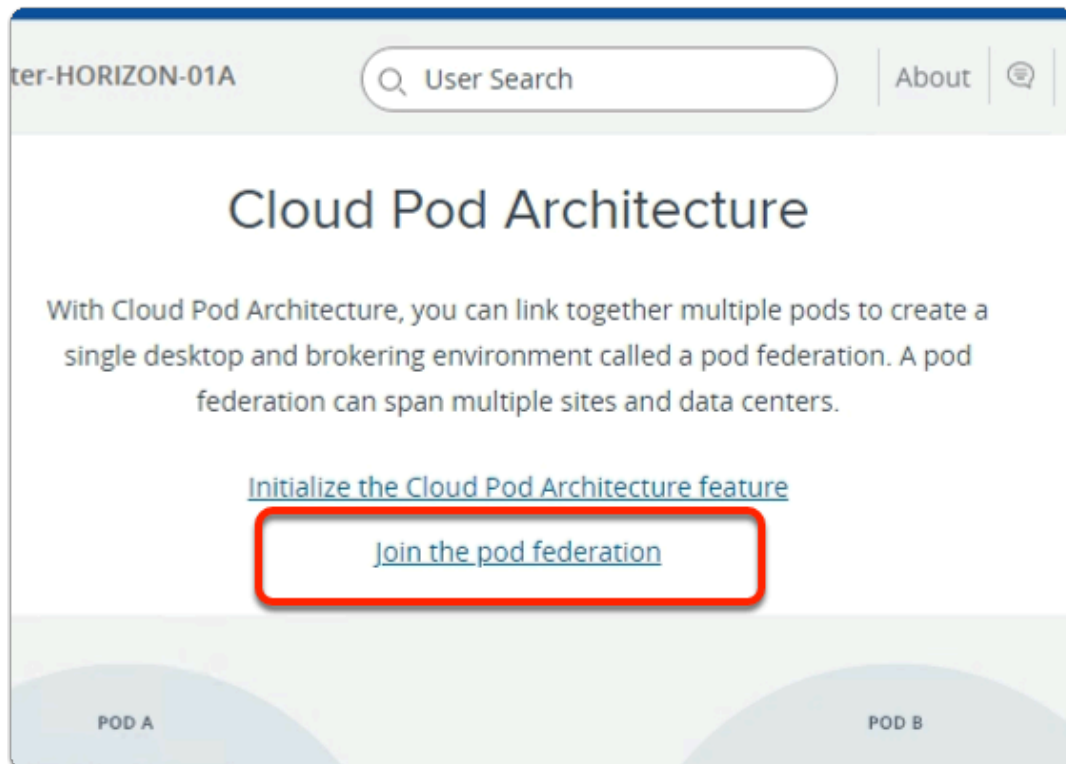
2. In the **Cloud Pod Architecture** window

- select **Initialize the Cloud Pod Architecture feature**
- In the **Initialize** window
 - select **Initialize**



3. On your Site 2 Browser

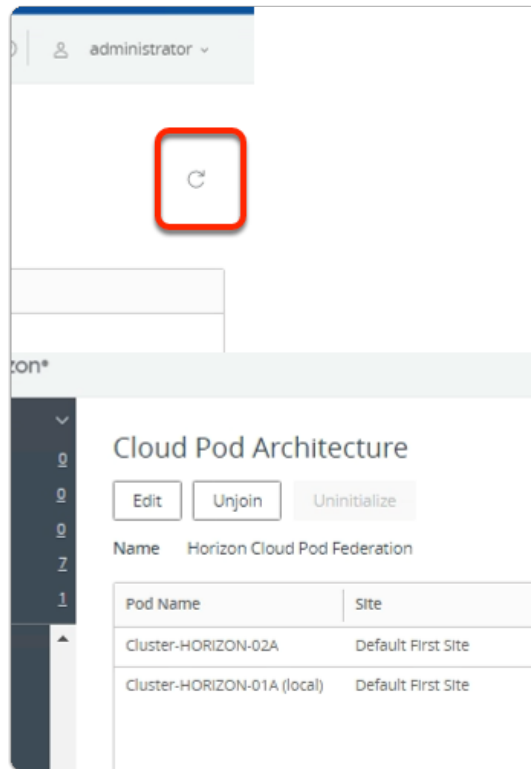
- In the **Horizon Admin Console**
 - In the **Inventory** pane
 - under **Settings**
 - select **Cloud Pod Architecture**



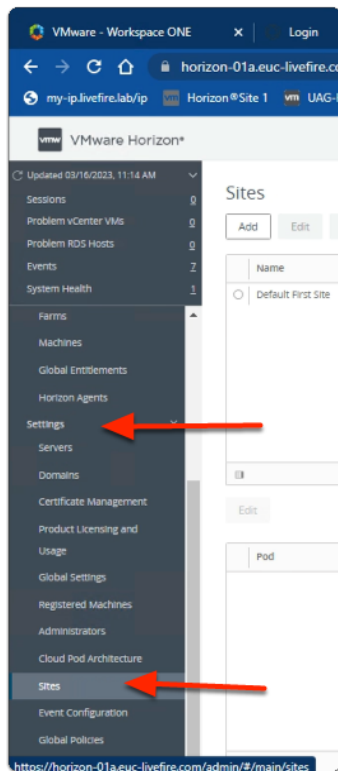
4. In the **Cloud Pod Architecture** window
 - select **Join the pod federation**

5. In the **Join** window
 - under **Connection Server (host name or IP address)**
 - enter **horizon-01a.euc-liveware.com**

- under **User name(domain\username)**
 - enter **euc-livewire.com\administrator**
- under **Password**
 - enter **VMware1!**
- In the bottom right corner
 - select **Join**

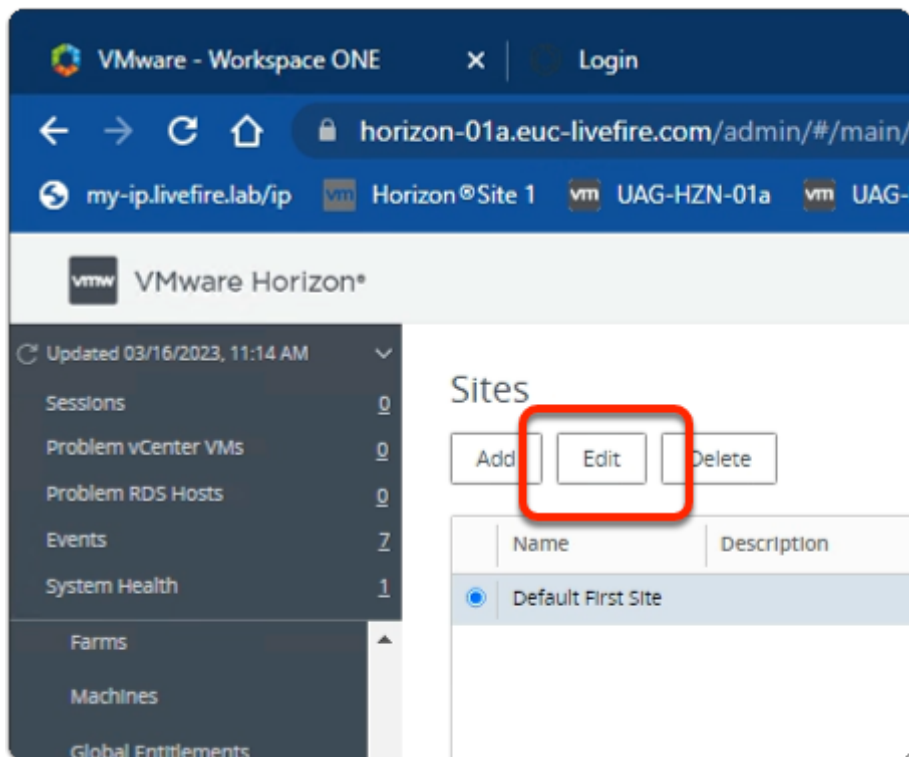


- On your ControlCenter server
 - **Switch back** to your **Site 1 Horizon Admin Console** session
 - In the **Cloud Pod Architecture** window
 - top right corner
 - select **refresh**
 - Note that you have **two Pods** in the same **Default First Site**



7. In the **Horizon Admin Console**

- In the **Inventory** pane
 - under **Settings**
 - select **Sites**



8. In the **Horizon Admin Console**

- In the **Inventory pane**
 - In the **Sites** window
 - next to **Default First Site**
 - select the **radio button**
 - select **Edit**

Edit Site [X]

Asterisk (*) denotes required field

* Name

Description

Cancel OK

9. In the **Edit Site** window
 - next to ***Name**
 - edit **Default First Site**
 - to **Bangalore**
 - select **OK**

VMware Horizon®

Updated 03/16/2023, 11:14 AM

Sessions 0

Problem vCenter VMs 0

Problem RDS Hosts 0

Events 2

System Health 1

Farms 1

Machines

Global Entitlements

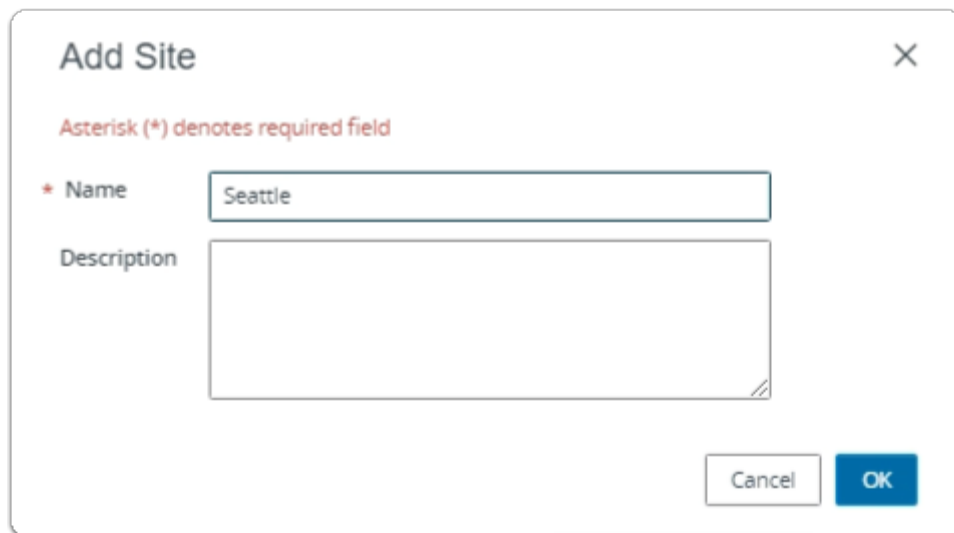
Horizon Admin Console

Sites

Add Edit Delete

	Name	Description	Number of Pods
<input type="radio"/>	Bangalore		2

10. In the **Horizon Admin Console**
 - In the **Inventory pane**
 - In the **Sites** window
 - select **Add**



Add Site [X]

Asterisk (*) denotes required field

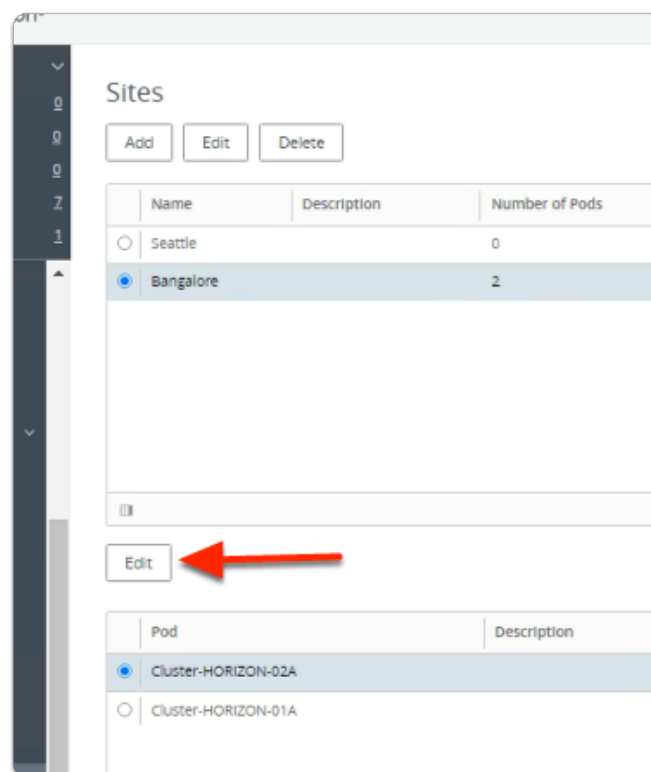
* Name

Description

Cancel OK

11. In the **Add Site** window

- next to *** Name**
 - type **Seattle**
 - select **OK**



Sites

Add Edit Delete

	Name	Description	Number of Pods
<input type="radio"/>	Seattle		0
<input checked="" type="radio"/>	Bangalore		2

Edit

Pod	Description
<input checked="" type="radio"/>	Cluster-HORIZON-02A
<input type="radio"/>	Cluster-HORIZON-01A

12. In the **Sites** window

- next to **Bangalore**
 - select the **radio button**
- under **Pod**
 - next to **Cluster-HORIZON-02A**
 - select the **radio button**

- select **Edit**

Edit Pod [X]

Asterisk (*) denotes required field

* Name: Cluster-HORIZON-02A

Description: [Empty text area]

Site: Seattle [v]

[Cancel] [OK]

- In the **Edit Pod** window
 - next to **Site**
 - from the **dropdown**
 - change **Bangalore**
 - to **Seattle**
 - Select **OK**

Sites

[Add] [Edit] [Delete]

	Name	Description	Number of Pods
<input type="radio"/>	Seattle		1
<input type="radio"/>	Bangalore		1

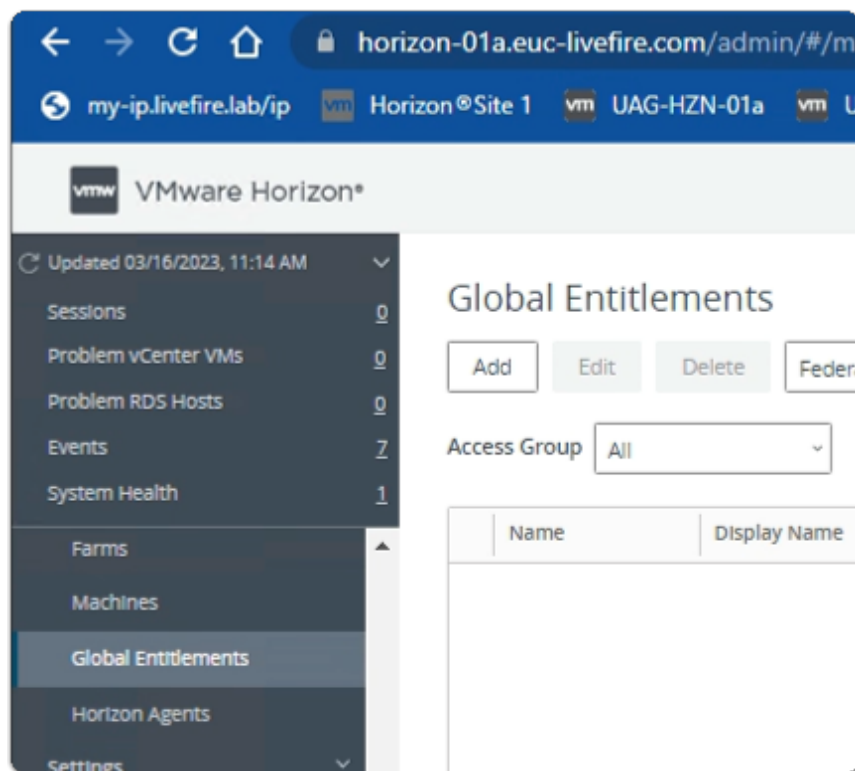
- In the **Sites** window
 - note both **Seattle** and **Bangalore** each have their own POD

Part 3: Enable Global Entitlements for VMware Cloud Pod Architecture for Instant Clone Desktops

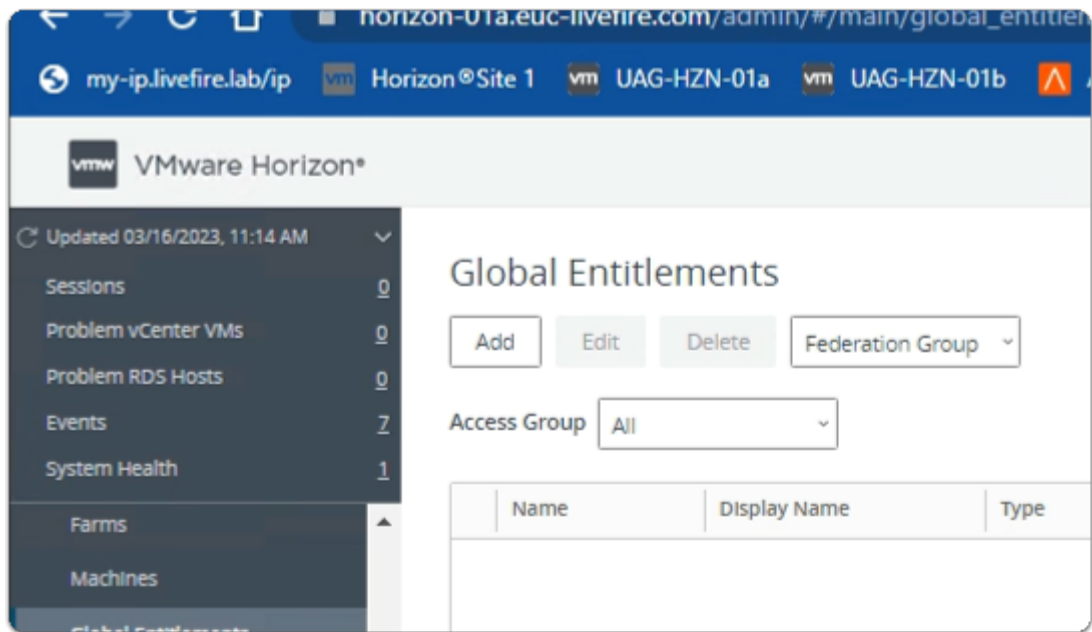
This session is divided into 2 steps

- Step 1. We will configure a Global Desktop Entitlement for Sales on Site 1
- Step 2. We will configure Global Desktop Entitlement for Sales on Site 2

Step 1. Configuring an Instant Clone Global Desktop Entitlement for Developers & Sales on Site 1

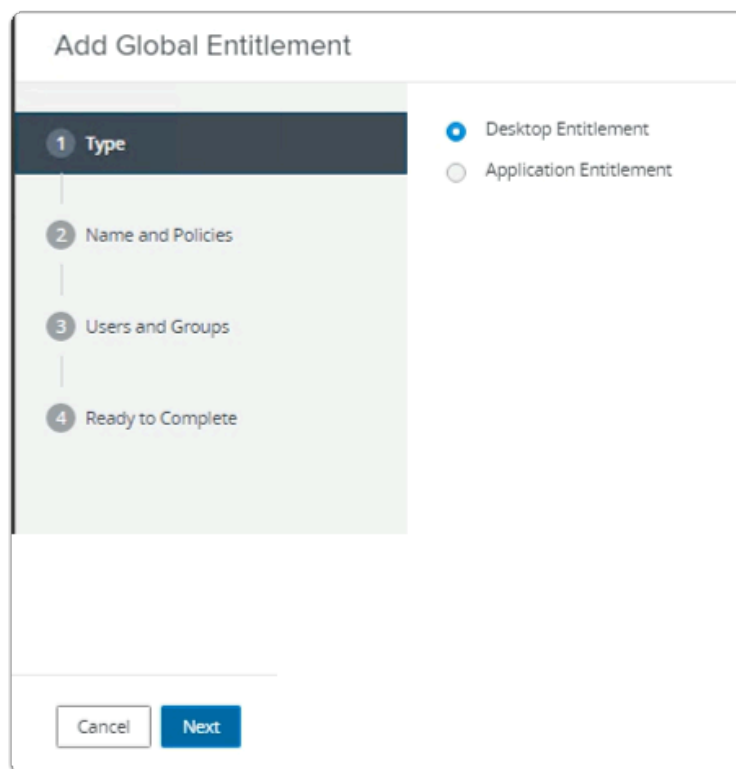


1. On your **ControlCenter** server
 - **Site 1 Chrome Browser**
 - **VMware Horizon Admin Console**
 - In the **Inventory**
 - select **Global Entitlements**



2. In the **Global Entitlements** area

- select **Add**



3. In the **Add Global Entitlement** window

- next to :
 1. **Type**
 - leave **Desktop entitlement** as default
- In the bottom right-corner
 - select **Next**

Add Global Entitlement

✓ Type

2 Name and Policies

3 Users and Groups

4 Ready to Complete

General

Asterisk (*) denotes required field

* Name

Enterprise Corp Instant Clone

This name is already in use.

Display Name

Enterprise_Desktop

Federation Access Group ⓘ

4. In the **Add Global Entitlement** window
 - next to :
 2. **Name and Policies**
 - under **Name**
 - enter **Enterprise Corp Instant Clone**
 - under **Display Name**
 - enter **Enterprise_Desktop**

2 Name and Policies

3 Users and Groups

4 Ready to Complete

Category Folder

None

Policies

User Assignment ⓘ

☒ Floating

☐ Dedicated

Scope ⓘ

☒ 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

5. In the **Add Global Entitlement** window

- next to :
- 2. **Name and Policies**
 - under **Policies > User Assignment**
 - next to **Floating**
 - select the **radio button**
 - under **Default Display Protocol**
 - from the **dropdown**
 - select **VMware Blast**
- In the bottom right-corner
 - select **Next**

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

Find User or Group

Type: ☒ Users ☒ Groups

Domain: Entire Directory

Name/User Name: Starts with Sales

Description: Starts with

Find

<input checked="" type="checkbox"/>	Name	User Name	Email	Description	In Folder
<input checked="" type="checkbox"/>	Sales	Sales/euc.livefire.com			euc.livefire.com/Corp/Sales

1 ☐ ☒ Deselect all Pages Rows per page: 20 1 - 1 of 1 row(s)

Cancel **OK**

7. 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

✓ Type

✓ Name and Policies

3 Users and Groups

Add users or groups to the global entitlement

Add

Remove

<input type="checkbox"/>	User Name	Domain
<input type="checkbox"/>	Sales	euc-

8. In the **Add Global Entitlement** window

- next to :

3. **Users and Groups**

- under **Add users or groups to the global entitlement**
 - select **Add**

Find User or Group

Type

☒ Users
 ☒ Groups

Domain

Entire Directory

Name/User Name

Starts with

developers

Description

Starts with

Find

<input checked="" type="checkbox"/>	Name	User Name	Email	Description	In Folder
<input checked="" type="checkbox"/>	Developers	Developers/euc-livefire...			euc-livefire.com/Corp/Developers

Cancel

OK

9. 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

Progress: 1. Type, 2. Name and Policies, **3. Users and Groups**, 4. Ready to Complete

Add users or groups to the global entitlement.

Add **Remove**

<input type="checkbox"/>	User Name	Domains	Email
<input type="checkbox"/>	Sales	euc-livewire.com	
<input type="checkbox"/>	Developers	euc-livewire.com	

☐ Select all Pages Rows per page: 20 1 - 2 of 2 rows

Cancel **Previous** **Next**

10. In the **Add Global Entitlement** window
 3. **Users and Groups**
 - in the bottom right-corner
 - select **Next**

Add Global Entitlement

✓ Type

✓ Name and Policies

✓ Users and Groups

4 Ready to Complete

Name	Enterprise Corp Instant Clone
Display Name	Enterprise Desktop
Federation Access Group	/
Connection Server Restrictions	None
Category Folder	None
User Assignment	Floating
Scope	All Sites
Use Home Site	Disabled
Automatically Clean Up Redundant Sessions	Disabled

Cancel

Previous

Finish

11. In the **Add Global Entitlement** window

4. **Ready to Complete** section

- in the bottom right-corner
- select **Finish**

Mware Horizon* Cluster Cluster-HORIZON

04/2023, 10:43 AM

0

1

0

4

0

Global Entitlements

Add

Edit

Delete

Federation Group

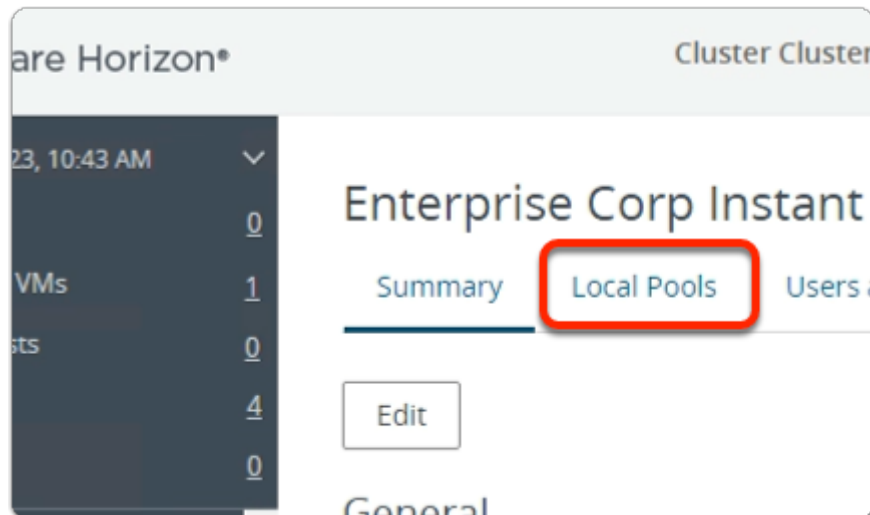
Access Group

All

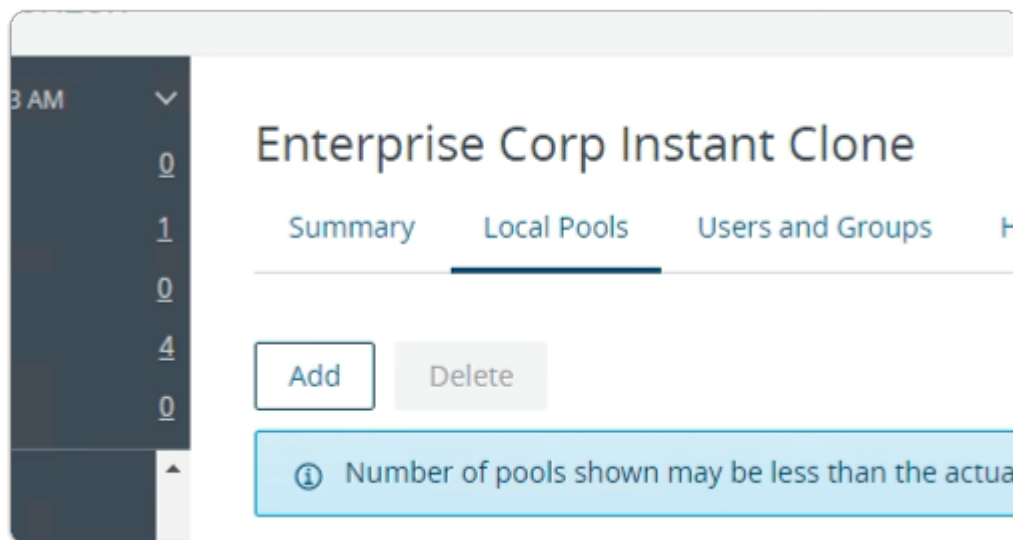
Name	Display Name
<input type="radio"/> Enterprise Corp Instant Clone	Enterprise Desktop

12. In the **Global Entitlements** window

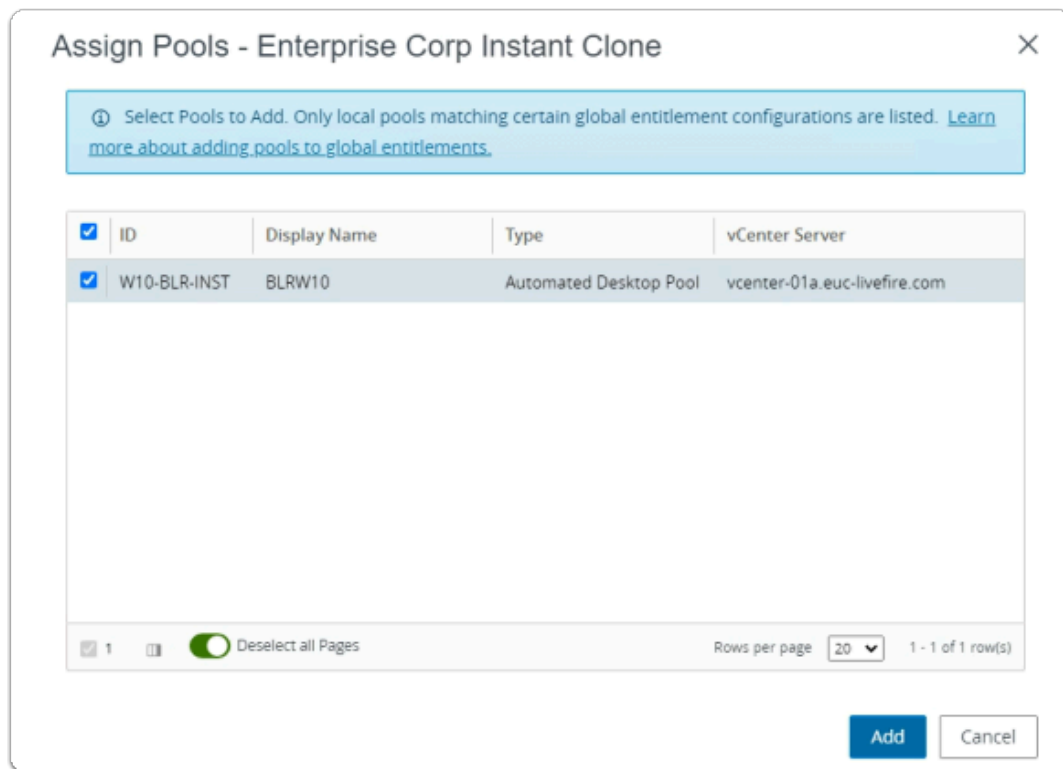
- select **Enterprise Corp Instant Clone**



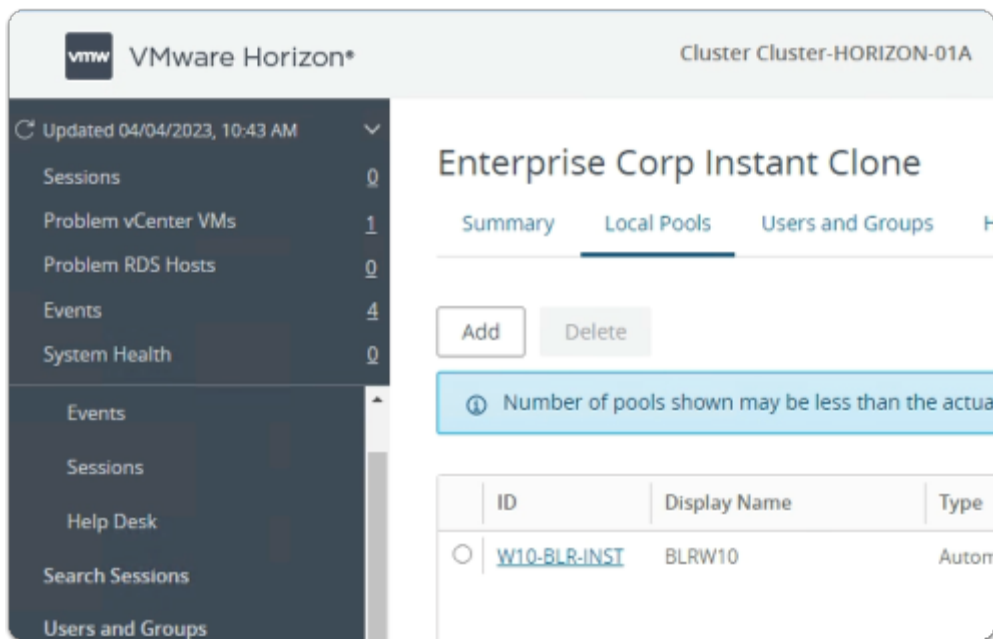
13. In the **Enterprise Corp Instant Clone** window
 - select the **Local Pools** tab



14. In the **Enterprise Corp Instant Clone** window
 - In the **Local Pools** tab area
 - select **Add**



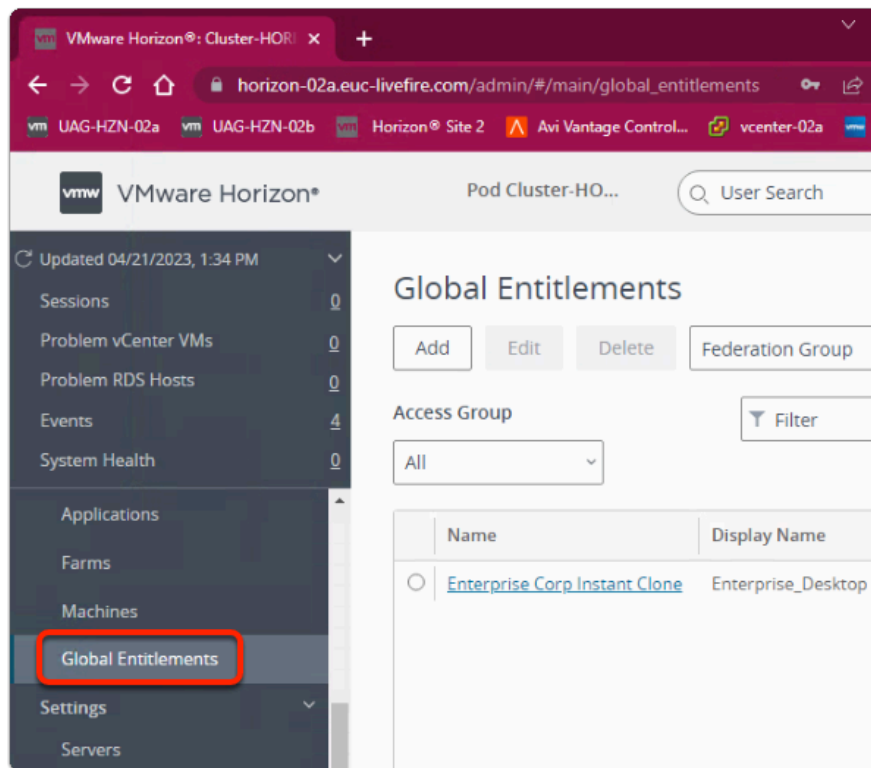
15. In the **Assign Pools - Enterprise Instant Clone** window
 - under **ID**
 - next to **W10-BLR-INST**
 - select the **checkbox**
 - select **Add**



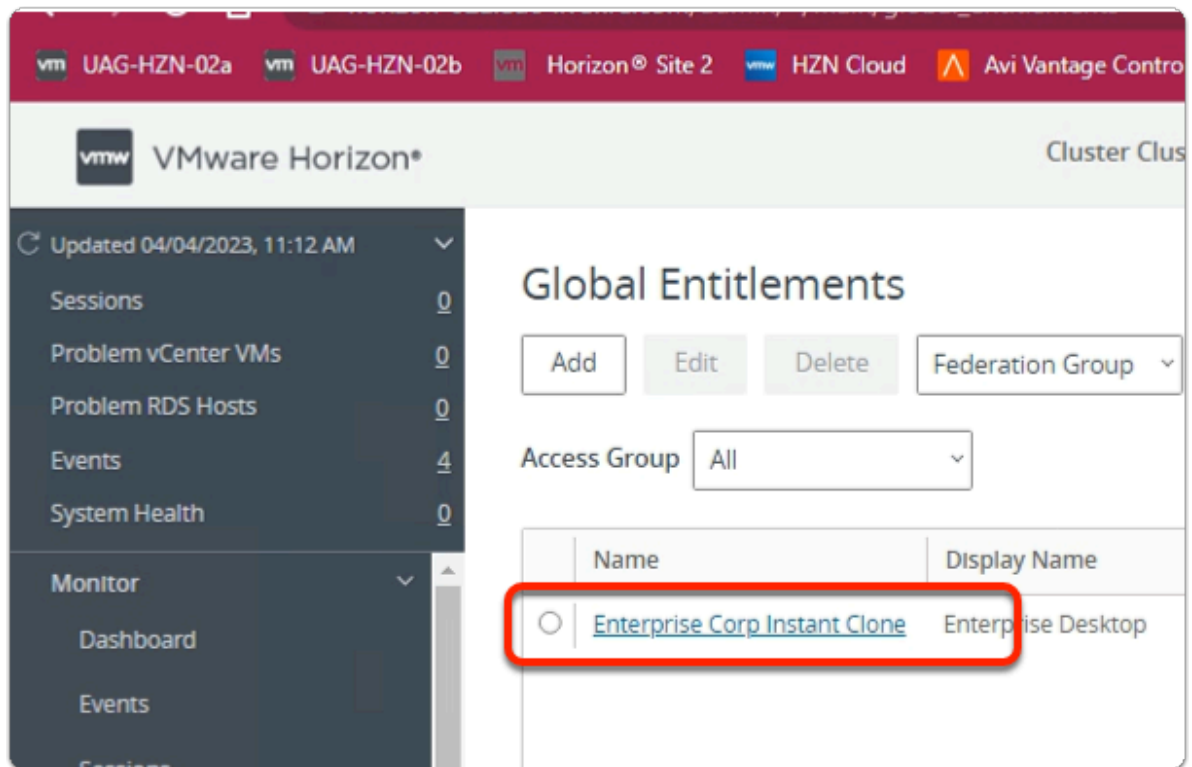
16. In the **Global Entitlements** window
 - Note you now have a Global Desktop Entitlement

- called **Enterprise Corp Instant Clone**

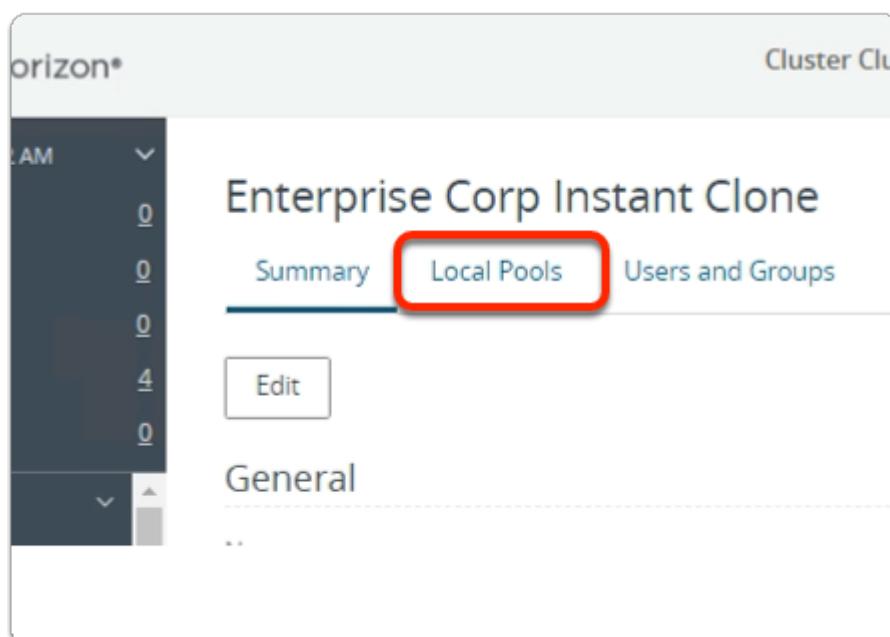
Step 2. Configuring an Instant Clone Global Desktop Entitlement for Developers & Sales on Site 2



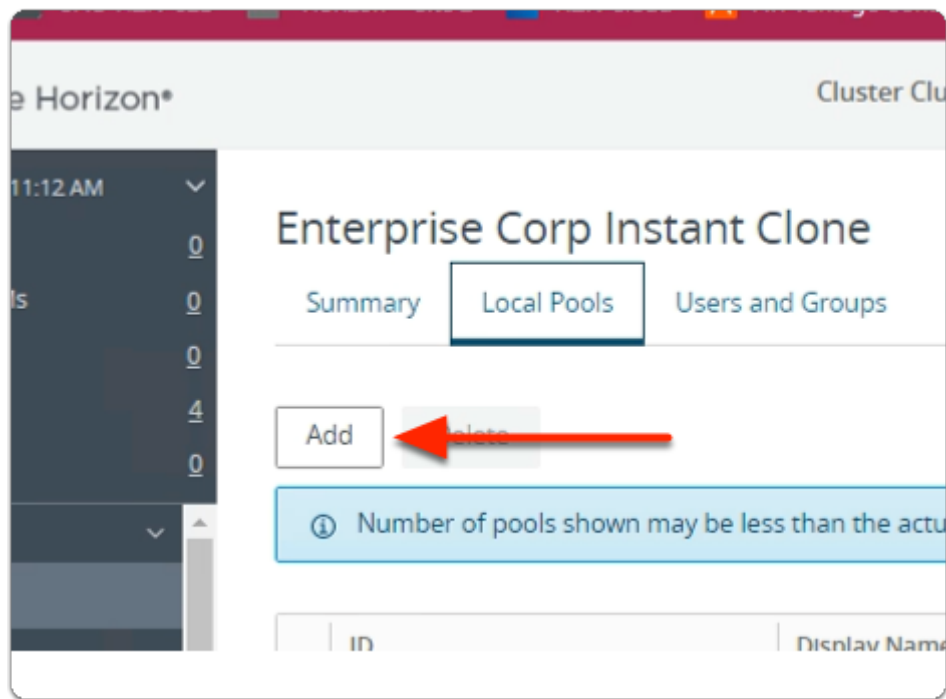
1. On your **ControlCenter** server
 - **Site 2 Chrome Browser**
 - **VMware Horizon Admin Console**
 - In the **Inventory**
 - select **Global Entitlements**



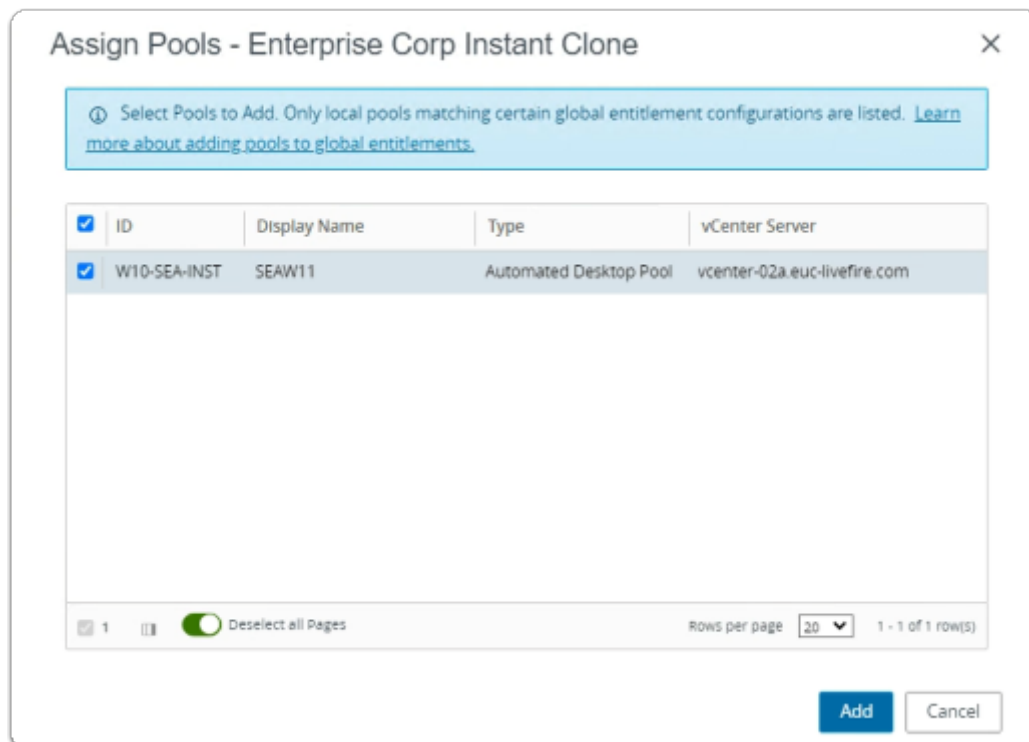
2. In the **Global Entitlements** window
 - select **Enterprise Corp Instant Clone**



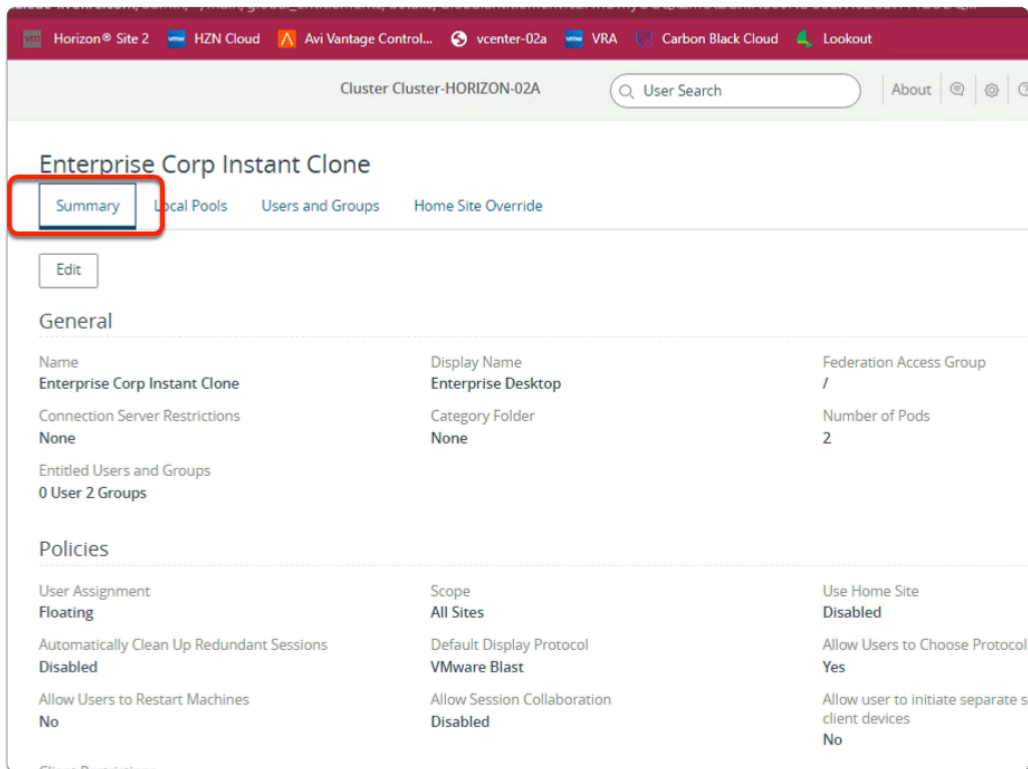
3. In the **Enterprise Corp Instant Clone** window
 - select the **Local Pools** tab



4. In the **Enterprise Corp Instant Clone** window
 - **Local Pools** tab
 - select **Add**



5. In the **Assign Pools - Enterprise Corp Instant Clone** window
 - next to **W10-SEA-INST**
 - select the **checkbox**
 - select **Add**



6. In the **Enterprise Corp Instant Clone** window

- select the **Summary** tab
- Review the configurations

i This concludes the VMware Horizon Cloud Pod Architecture lab.

In the next lab we will integrate VMware Horizon with Workspace ONE Access and test the entire days exercises

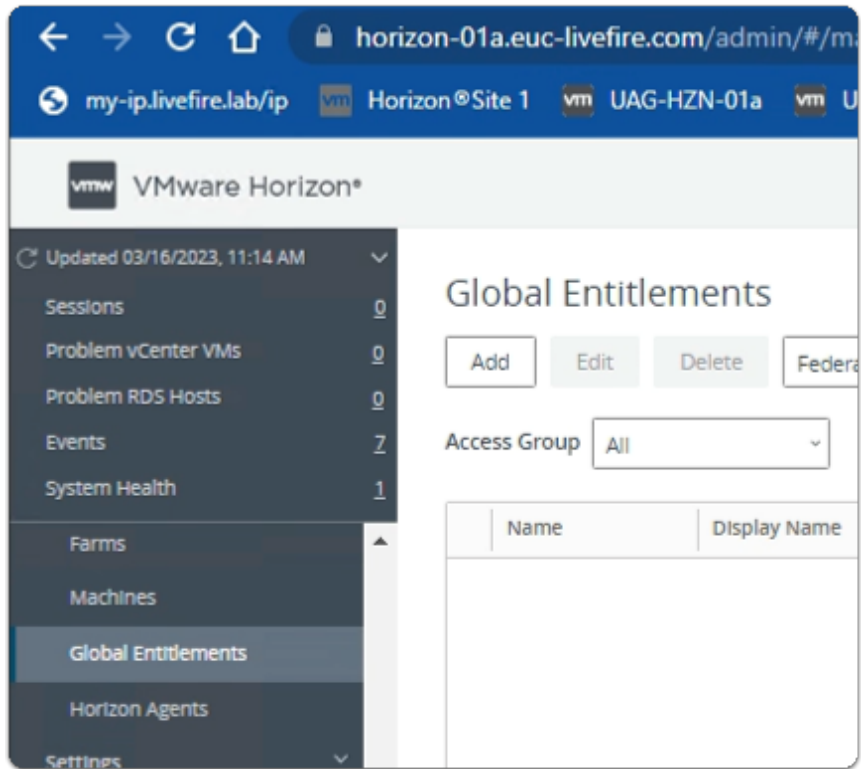
Part 4: Enable Global Entitlements for VMware Cloud Pod Architecture & for Developer Full Clone Desktops

This session is divided into 2 steps

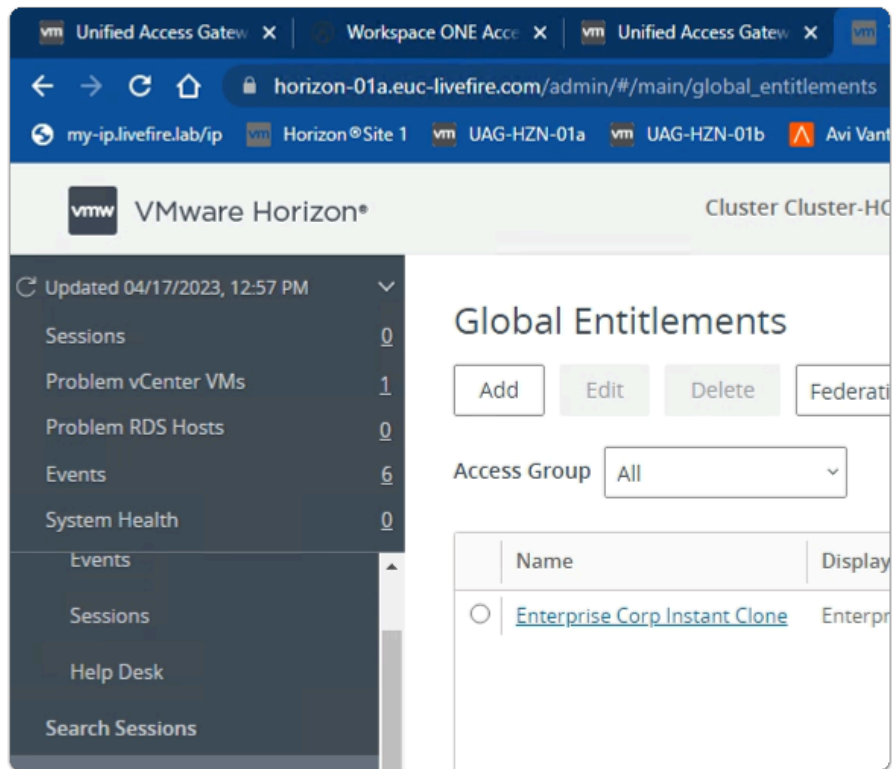
- Step 1. We will configure a Global Desktop Entitlement for Sales on Site 1
- Step 2. We will configure Global Desktop Entitlement for Sales on Site 2

Step 1. Configuring a Full Clone Global Desktop Entitlement for

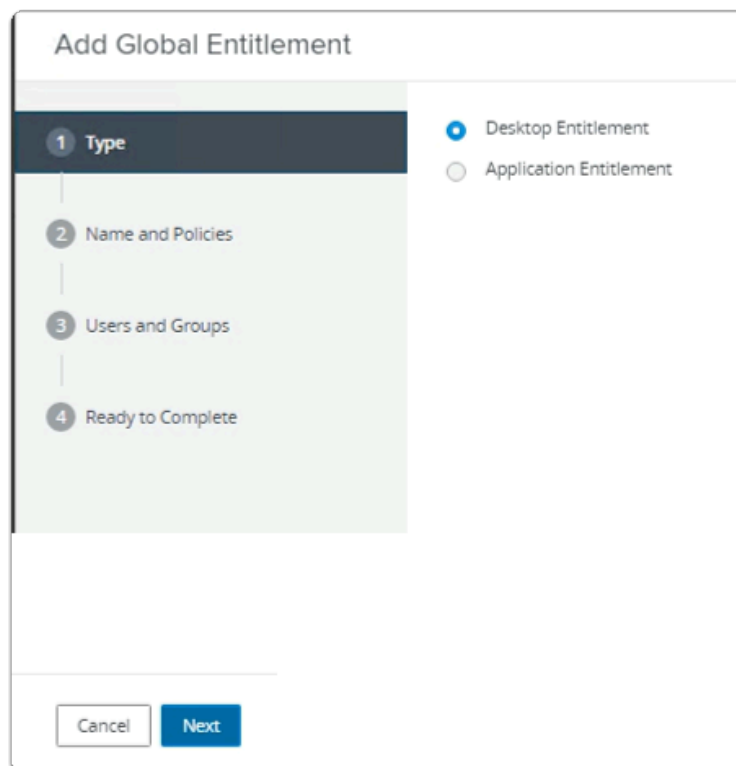
Developers on Site 1



1. On your **ControlCenter** server
 - **Site 1 Chrome Browser**
 - **VMware Horizon Admin Console**
 - In the **Inventory**
 - select **Global Entitlements**



2. In the **Global Entitlements** area
 - select **Add**



3. In the **Add Global Entitlement** window
 - next to :
 1. **Type**

- leave **Desktop entitlement** as default
- In the bottom right-corner
 - select **Next**

The screenshot shows the 'Add Global Entitlement' window. On the left, a vertical progress bar has four steps: 1. Type (marked with a green checkmark), 2. Name and Policies (highlighted in dark blue), 3. Users and Groups, and 4. Ready to Complete. On the right, the 'General' section is active. It includes a red note: 'Asterisk (*) denotes required field'. Below this, the 'Name' field is marked with a red asterisk and contains the text 'Enterprise Corp Full Clone Desktop'. The 'Display Name' field contains 'Developers'. The 'Federation Access Group' field contains a forward slash '/' and has an information icon (i) to its right.

4. In the **Add Global Entitlement** window

- next to :
 2. **Name and Policies**
 - under **Name**
 - enter **Enterprise Corp Full Clone Desktop**
 - under **Display Name**
 - enter **Developers**

Add Global Entitlement

1 ✓ Type

2 **Name and Policies**

3 Users and Groups

4 Ready to Complete

User Assignment ⓘ

☐ Floating

☒ Dedicated

Scope ⓘ

☒ All Sites

☐ Within Site

☐ Within Pod

☐ Use Home Site ⓘ

☐ Entitled user must have Home Site

☐ Automatically Clean Up Redundant

Default Display Protocol ⓘ

VMware Blast

Cancel Previous **Next**

5. In the **Add Global Entitlement** window

- next to :

2. **Name and Policies**

- under **Default Display Protocol**
 - from the **dropdown**
 - select **VMware Blast**
- In the bottom right-corner
 - select **Next**

Add Global Entitlement

1 ✓ Type

2 ✓ Name and Policies

3 **Users and Groups**

4 Ready to Complete

Add users or groups to the global entitlement.

Add Remove

User Name
No

6. In the **Add Global Entitlement** window

- next to :
- 3. **Users and Groups**
 - under **Add users or groups to the global entitlement**
 - select **Add**

Add Global Entitlement

Add users or groups to the global en

Add **Remove**

<input type="checkbox"/> User Name

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

Find User or Group

Type ☒ Users ☒ Groups

Domain

Name/User Name

Description

Find

<input checked="" type="checkbox"/>	Name	User Name	Email	Description	In Folder
<input checked="" type="checkbox"/>	Developers	Developers/euc-liv...			euc-livfire.com/Corp/Developers

Cancel **OK**

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 **Developers**
 - select the **checkbox**
- in the bottom right-corner
 - select **OK**

Add Global Entitlement

1 Type

2 Name and Policies

3 Users and Groups

4 Ready to Complete

Add users or groups to the global entitlement.

Add **Remove**

<input type="checkbox"/>	User Name	Domains	Email
<input type="checkbox"/>	Developers	euc-liveline.com	

☐ Select all Pages Rows per page: 20 1 - 1 of 1 row(s)

Cancel **Previous** **Next**

9. In the **Add Global Entitlement** window

3. **Users and Groups**

- in the bottom right-corner
 - select **Next**

Add Global Entitlement

✓ Type

✓ Name and Policies

✓ Users and Groups

4 Ready to Complete

Name	Enterprise Corp Full Clone Desktop
Display Name	Developers
Federation Access Group	/
Connection Server Restrictions	None
Category Folder	None
User Assignment	Dedicated
Scope	All Sites
Use Home Site	Disabled
Default Display Protocol	VMware Blast

Cancel

Previous

Finish

10. In the **Add Global Entitlement** window

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

vmw VMware Horizon®

Cluster Cluster-HORIZON-01A

Updated 04/17/2023, 12:57 PM

Sessions 0

Problem vCenter VMs 1

Problem RDS Hosts 0

Events 6

System Health 0

Events

Sessions

Help Desk

Search Sessions

Users and Groups

Global Entitlements

Add

Edit

Delete

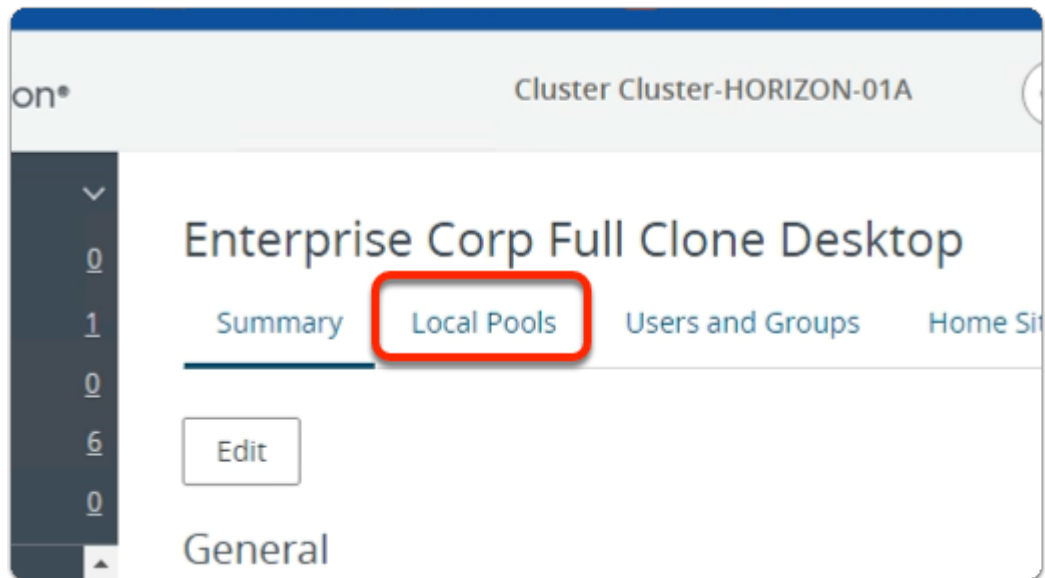
Federation Group ▾

Access Group ▾ All ▾

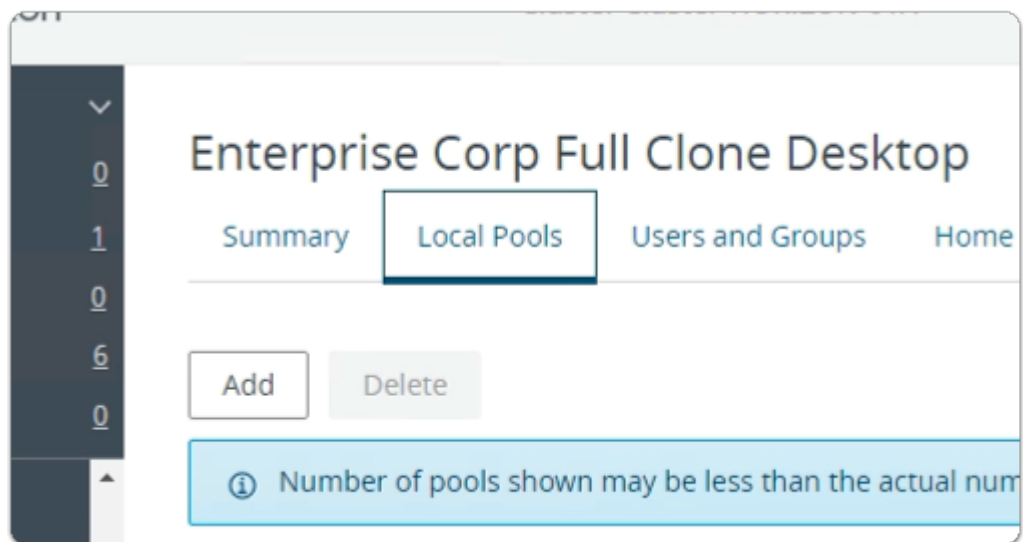
	Name	Display Name
<input type="radio"/>	Enterprise Corp Instant Clone	Enterprise Desktop
<input type="radio"/>	Enterprise Corp Full Clone Desktop	Developers

11. In the **Global Entitlements** window

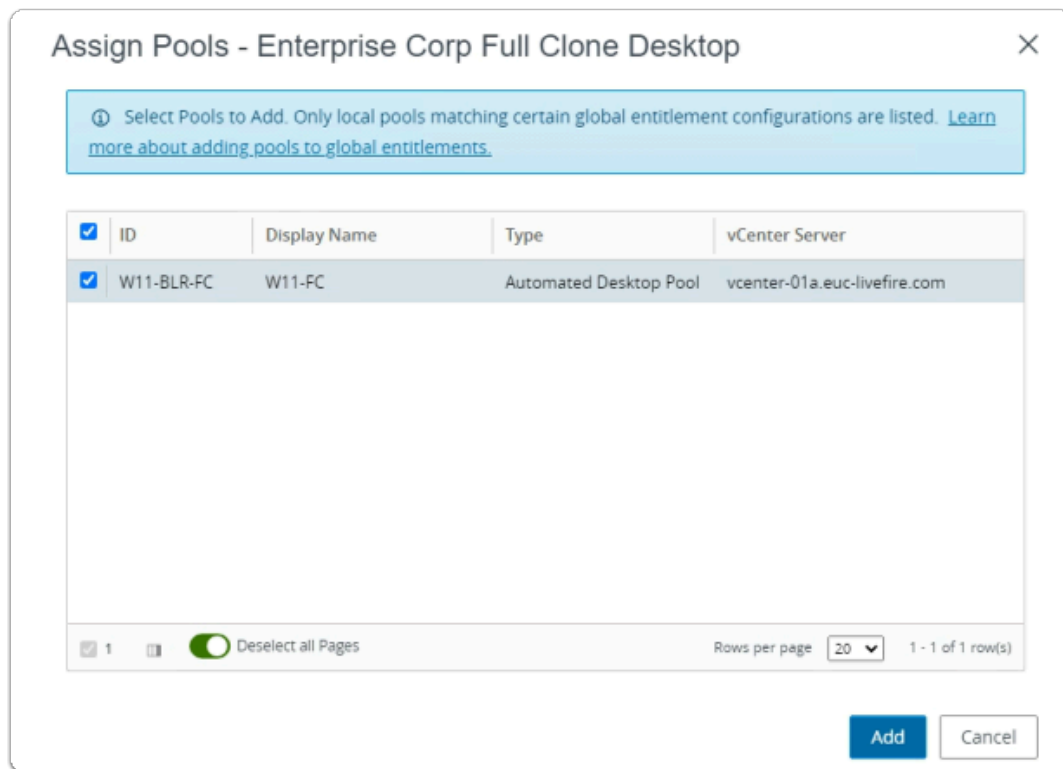
- select **Enterprise Corp Full Clone Desktop**



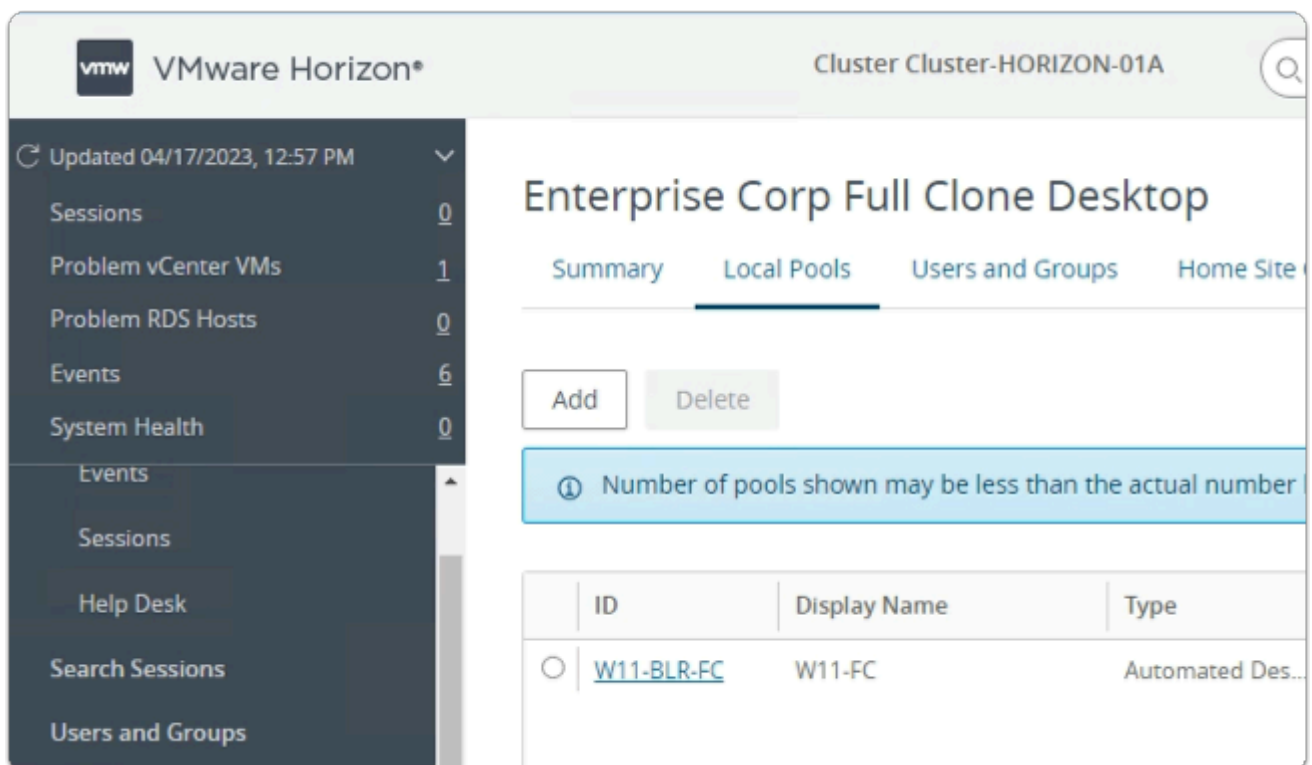
12. In the **Enterprise Corp Instant Clone** window
 - select the **Local Pools** tab



13. In the **Enterprise Corp Instant Clone** window
 - In the **Local Pools** tab area
 - select **Add**



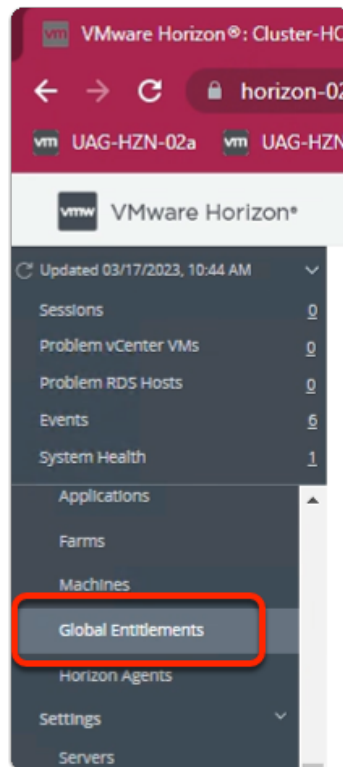
14. In the **Assign Pools - Enterprise Instant Clone** window
 - under **ID**
 - next to **W11-BLR-FC**
 - select the **checkbox**
 - select **Add**



15. In the **Global Entitlements** window

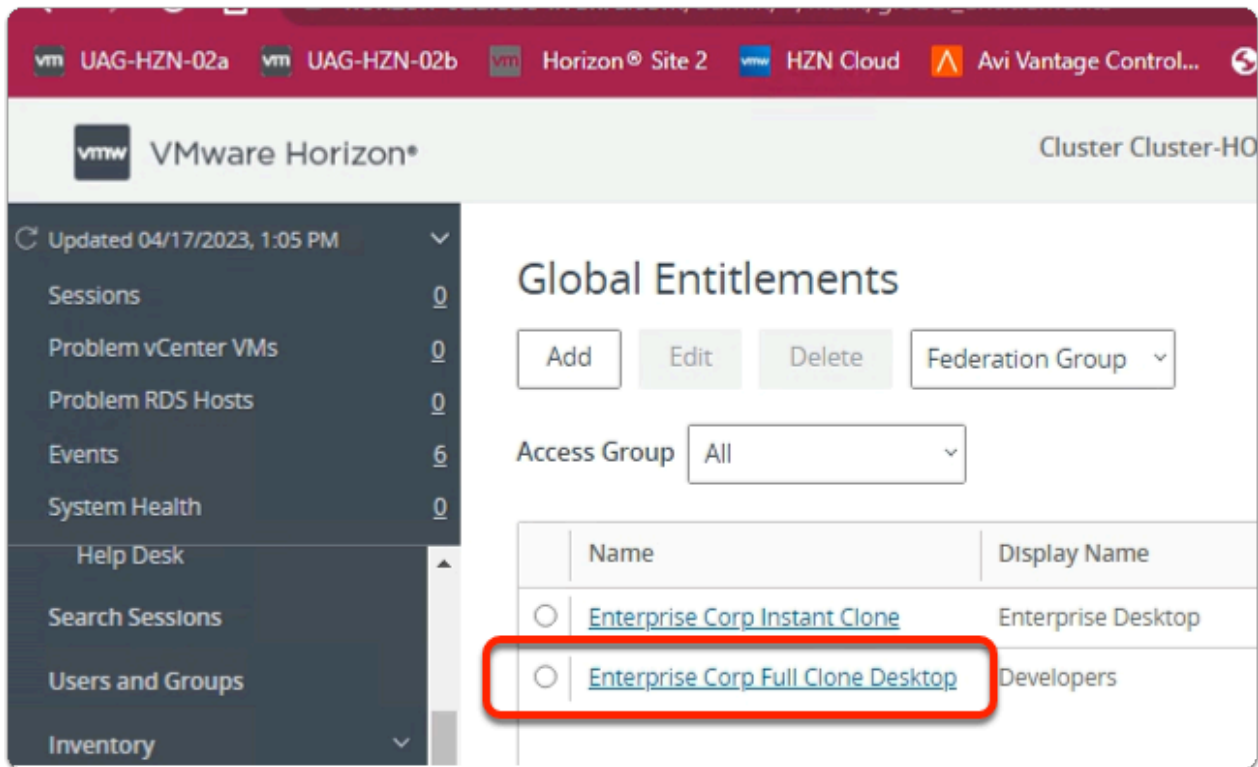
- Note you now have a Global Desktop Entitlement for Site 1 for Developers
 - called **Enterprise Corp Full Clone Desktop**

Step 2. Configuring a Full Clone Global Desktop Entitlement for Developers on Site 2

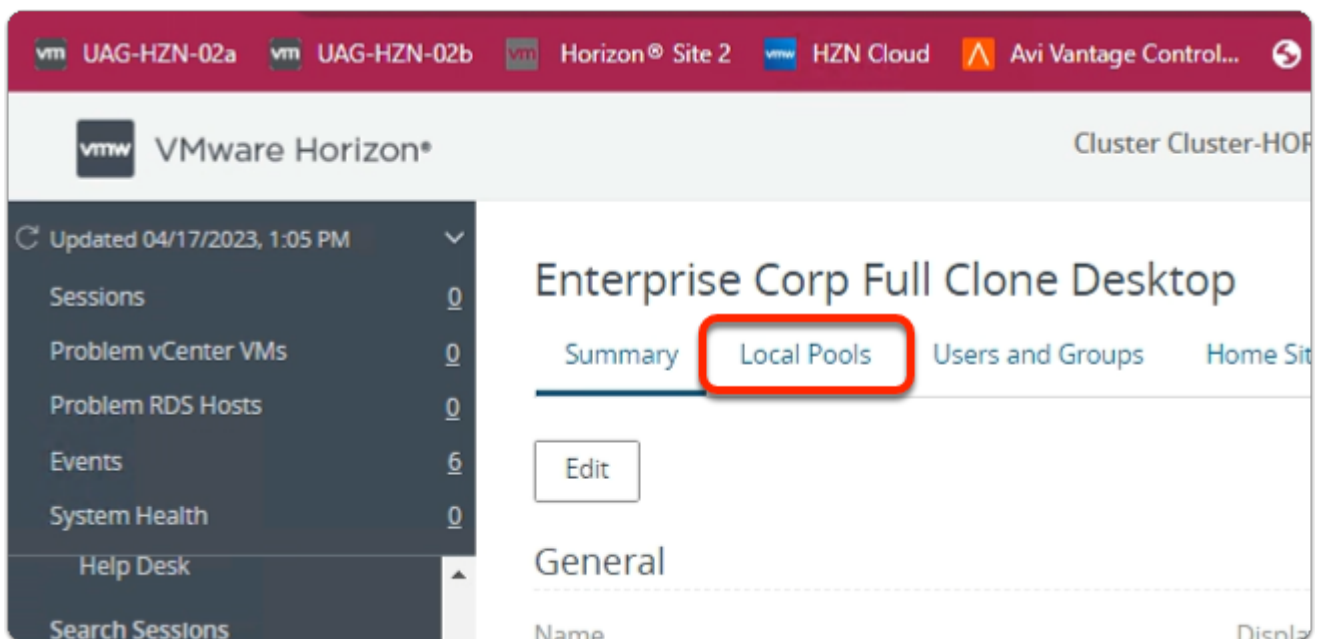


1. On your **ControlCenter** server

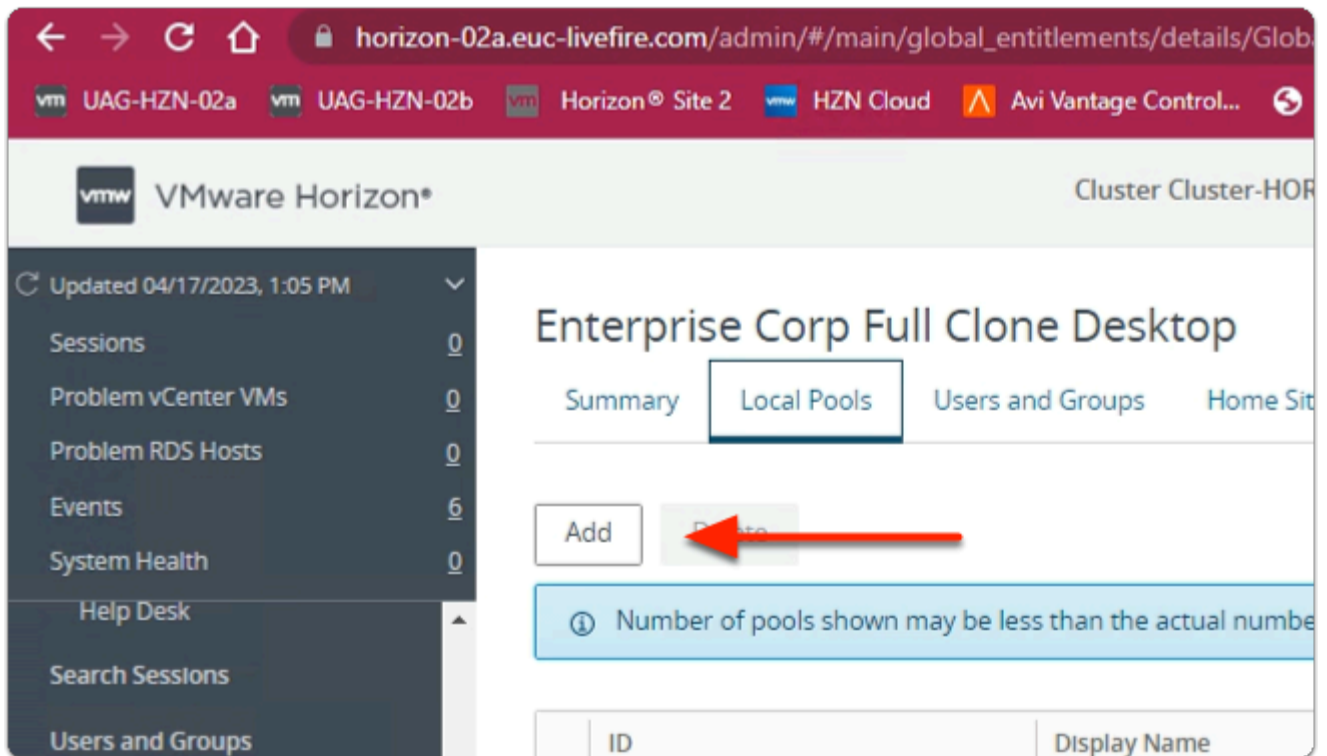
- **Site 2 Chrome Browser**
 - **VMware Horizon Admin Console**
 - In the **Inventory**
 - select **Global Entitlements**



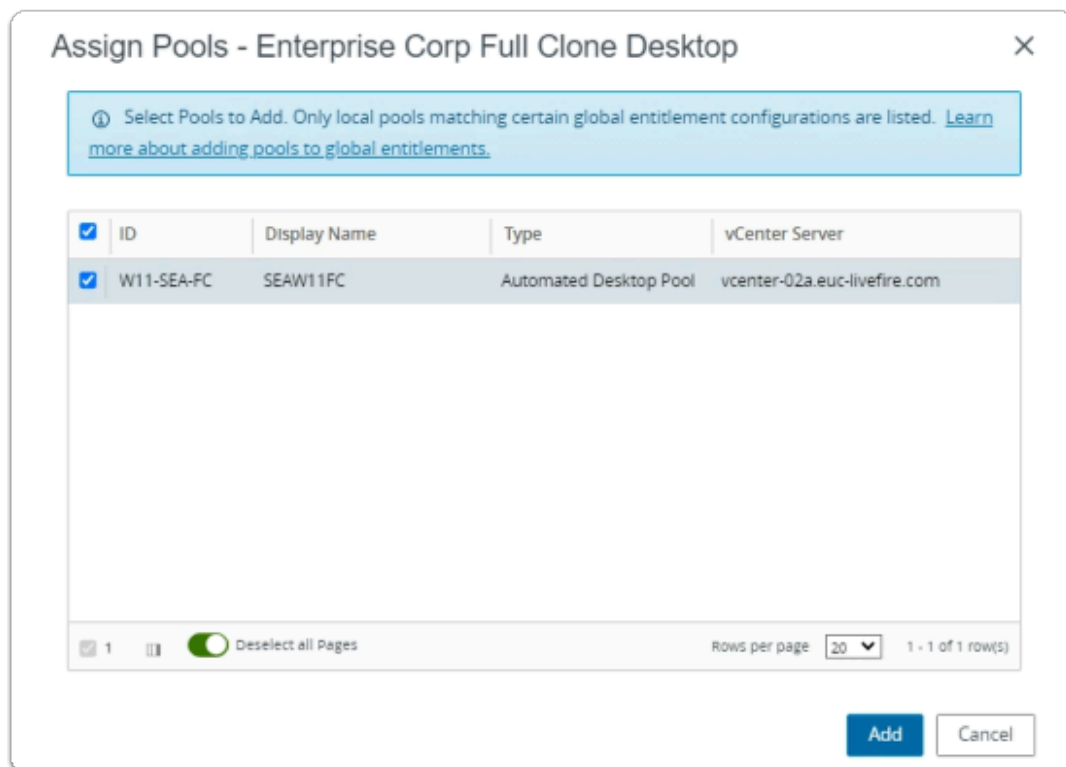
2. In the **Global Entitlements** window
 - select **Enterprise Corp Full Clone Desktop**



3. In the **Enterprise Corp Full Clone Desktop** window
 - select the **Local Pools** tab

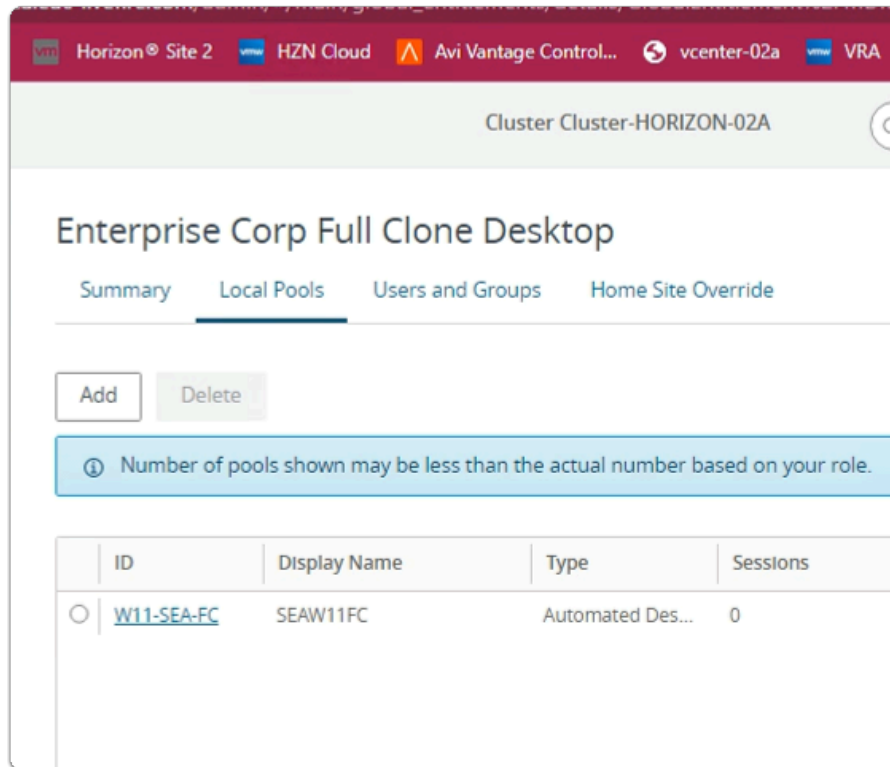


4. In the **Enterprise Corp Full Clone Desktop** window
 - **Local Pools** tab
 - select **Add**



5. In the **Assign Pools - Enterprise Corp Full Clone Desktop** window
 - next to **W11-SEA-FC**

- select the **checkbox**
- select **Add**



6. In the **Enterprise Corp Full Clone Desktop** window
 - Review the configurations



This concludes the VMware Horizon Cloud Pod Architecture lab.

In the next lab we will federate Unified Access Gateway and VMware Horizon with Workspace ONE Access