



UCS Director: Sharing a VM Across Groups

Oct. 2016

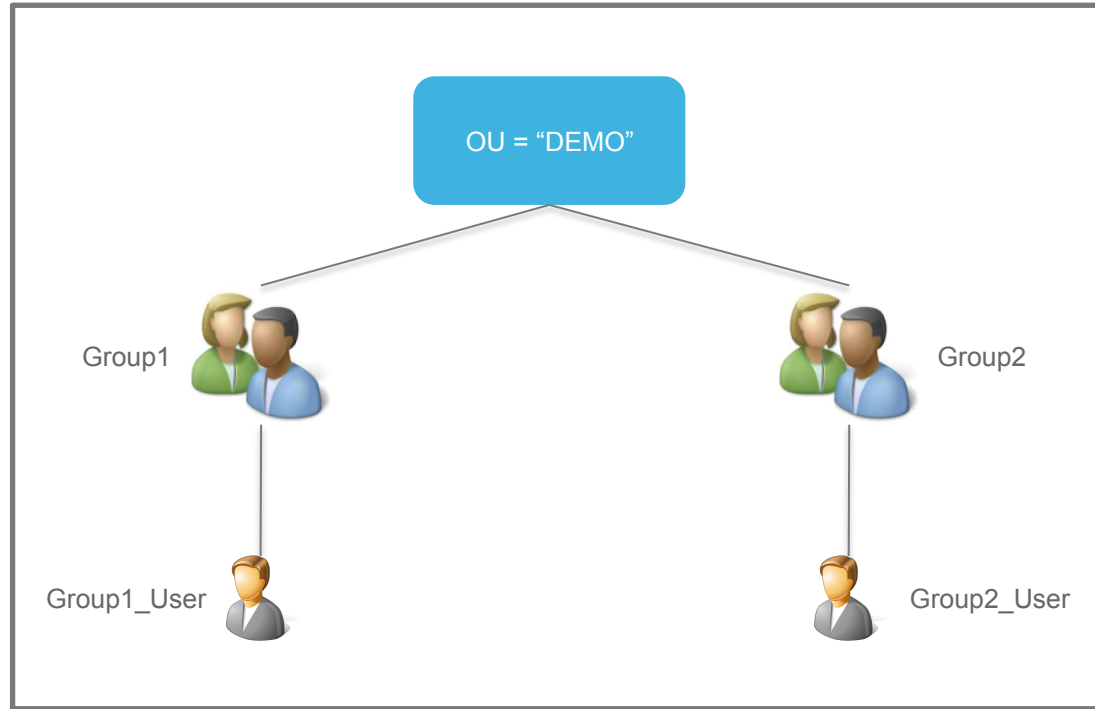
Goal:

Share a VM owned by an end-user in one group with an end-user in a different group

Related UCS Director Objects:

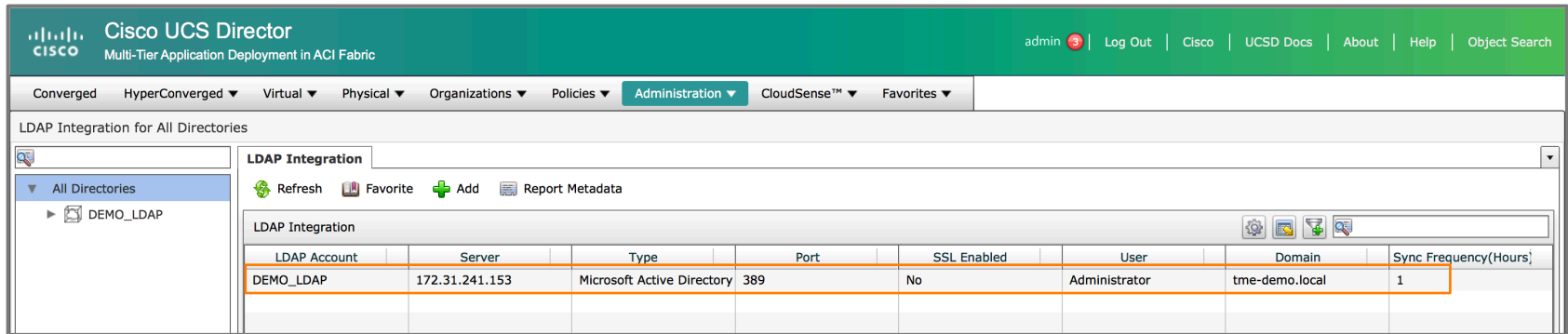
- Users and Groups (from LDAP/AD or local)
- Group Share Policies
- Manage VM Access Action Button

Example Active Directory Structure



LDAP Integration into UCS Director

- [Admin Portal] Location: Administration → LDAP Integration



The screenshot displays the Cisco UCS Director Admin Portal interface. The top navigation bar includes the Cisco logo, the text "Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric", and user information "admin" with a notification icon, along with links for "Log Out", "Cisco", "UCSD Docs", "About", "Help", and "Object Search". Below the navigation bar, a menu shows "Administration" selected. The main content area is titled "LDAP Integration for All Directories" and contains a search bar, a "LDAP Integration" tab, and a table of LDAP integrations. The table has columns for LDAP Account, Server, Type, Port, SSL Enabled, User, Domain, and Sync Frequency(Hours). A single entry is visible, highlighted with an orange border.

LDAP Account	Server	Type	Port	SSL Enabled	User	Domain	Sync Frequency(Hours)
DEMO_LDAP	172.31.241.153	Microsoft Active Directory	389	No	Administrator	tme-demo.local	1

Users and Groups Sync'd to UCS Director

- [Admin Portal] Location: Administration → Users and Groups

Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric

Converged HyperConverged Virtual Physical Organizations Policies Administration CloudSense™ Favorites

Users and Groups

User Groups Users Current Online Users Login Page Branding Authentication Preferences Single Sign-On

Refresh Favorite Add Report Metadata

Group ID	Group Name	Group Code	Group Description	Source	Cost Center
1	Default Group	DEF	Default Group. A	Local	
71	Domain Users			External	
73	Group1@tme-demo.local			External	
72	Group2@tme-demo.local			External	

Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric

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Users and Groups

User Groups Users Current Online Users Login Page Branding Authentication Preferences Single Sign-On SCP User Configuration Password

Refresh Favorite Add Report Metadata

Users

Status	Login Name	First Name	Access Level	User Group	Source
Enabled	Group1_User@tme-demo.local	Group1_User	Service End-User	Group1@tme-demo.local	Gr External
Enabled	Group2_User@tme-demo.local	Group2_User	Service End-User	Group2@tme-demo.local	Gr External
Enabled	admin	System Admin	System Admin		Local
Enabled	infraUser		System Admin		Local

Allow Resource Assignment to Users

- [Admin Portal] Location: Administration → Users and Groups → User Groups
- Ensure that the “Allow Resource Assignment to Users” option is enabled (checked) for all user groups required to be involved in the resource sharing
- “Allow Resource Assignment to Users” must be enabled on the group for one user (with a service end-user role) to share a resource with another user (with a service end-user role)

The screenshot shows the 'Edit Group' form with the following fields and values:

- Name: Group1@tme-demo.local
- Description: [Empty]
- Code: [Empty]
- Cost Center: [Empty]
- Contact Email: group1@tme-demo.local
- First Name: [Empty]
- Last Name: [Empty]
- Phone: [Empty]
- Address: [Empty]

The 'Group Share Policy' dropdown menu is open, showing the following options:

- Allow Resource Assignment To Users

The 'Save' and 'Close' buttons are located at the bottom right of the form.

“Group1_User” Virtual Machine

- [End-User Portal] Location: Virtual Resources → VMs
- Here we see that “Group1_User” has provisioned a VM and that he/she is the owner of the VM
- NOTE: If the “Allow Resource Assignment to Users” option was not enabled at the group level, the individual user would not be the VM owner and would not be given the option to share the VM

The screenshot shows the Cisco UCS Director interface. At the top, it says "Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric". The main navigation bar includes "Virtual Resources" with sub-tabs for Summary, vDCs, Application Containers, VMs (selected), VM Action Requests, Images, and Resource Pools. Below the navigation bar, there are icons for eye, hand, calendar, refresh, power, and stop, along with a "More Actions" dropdown. A search bar shows "1 match found." and a table of results. The table has columns: Cloud, Request ID, VM-ID, VM Label, VM Name, Host Name, IP Address, Power State, vDC, Category, Provisione..., Scheduled ..., and Assigned To User. The first row is highlighted with an orange border and contains the following data: ACI-vCenter, 931, 239, vm-931, vm-931, 192.192.16..., a green power icon, Group1_VDC, Generic VM, Mon Oct 31..., R..., and Group1_User@tme-d.

Cloud	Request ID	VM-ID	VM Label	VM Name	Host Name	IP Address	Power State	vDC	Category	Provisione...	Scheduled	Assigned To User
ACI-vCenter	931	239	vm-931	vm-931	192.192.16...		Group1_VDC	Generic VM	Mon Oct 31...	R...			Group1_User@tme-d

Manage VM Access Option

- [End-User Portal] Location: Virtual Resources → VMs
- Highlight the VM and click on “More Actions”, select the “Manage VM Access” option
- This is the option that allows a user to manage user access to a particular VM resource

The screenshot displays the Cisco UCS Director interface. At the top, it says 'Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric'. Below this, there are tabs for 'Summary', 'vDCs', 'Application Containers', 'VMs', 'VM Action Requests', 'Images', and 'Resource Pools'. The 'VMs' tab is selected. A table of VMs is shown with columns for 'Cloud', 'Request ID', 'VM Name', 'Host Name', 'IP Address', 'Power State', and 'vDC'. One VM is listed with 'Request ID' 931 and 'VM Name' 239. A 'More Actions' dropdown menu is open over this VM, listing various actions such as 'Configure VNC', 'Unconfigure VNC', 'Test VNC', 'Clone', 'VM Resync', 'Move VM To VDC', 'Clone VM as Image', 'Convert VM as Image', 'Enable/Disable VMRC Console', 'Assign VMs To VDC', and 'Manage VM Access'. The 'Manage VM Access' option is highlighted with an orange box.

Cloud	Request ID	VM Name	Host Name	IP Address	Power State	vDC
ACI-vCenter	931	239	vm-931	192.192.16...	🟢	Group

Manage VM Access Option

- [End-User Portal] Location: Virtual Resources → VMs
- If you expand **VM Ownership**, you see that “Group1_User” is the VM owner
- If you expand **Users with Access Privilege** and **Users with Manage Privilege**, you’ll see that there are no available user configured to share with...
- ...more configuration is required to enable sharing...

Manage VM Access Option

Cisco UCS Director
Multi-Tier Application Deployment in ACI Fabric

Virtual Resources | VMs

Manage VM Access

VM OWNERSHIP

[-] USER*

	Login Name	Host	First Name	Last Name	Access Level	User Group	Contact Email Address	Source
<input checked="" type="checkbox"/>	Group1_User@tme-de...	172.31.241.153	Group1_User		Service End-User	Group1@tme-demo.lo...		External

VM ACCESS SHARING

[-] USERS WITH ACCESS PRIVILEGE

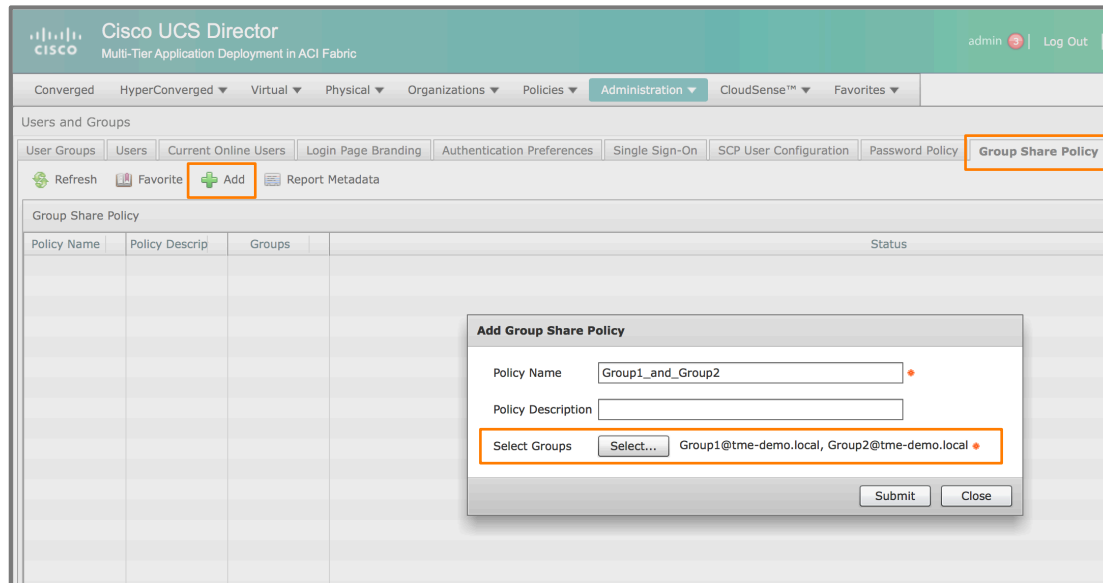
	Login Name	Host	First Name	Last Name	Access Level	User Group	Contact Email Address	Source
No data								

[-] USERS WITH MANAGE PRIVILEGE

	Login Name	Host	First Name	Last Name	Access Level	User Group	Contact Email Address	Source
No data								

Create Group Share Policy

- [Admin Portal] Location: Administration → Users and Groups → Group Share Policy
- You must create a “Group Share Policy” in order to allow a user from one group to share with a user in another group



The screenshot displays the Cisco UCS Director Admin Portal interface. The top navigation bar includes the Cisco logo, the text "Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric", and the user "admin" with a "Log Out" link. The main navigation menu is expanded to "Administration", which contains sub-menus for "Users and Groups", "Policies", "CloudSense™", and "Favorites". The "Users and Groups" sub-menu is further expanded to show "User Groups", "Users", "Current Online Users", "Login Page Branding", "Authentication Preferences", "Single Sign-On", "SCP User Configuration", "Password Policy", and "Group Share Policy". The "Group Share Policy" sub-menu item is highlighted with an orange box. Below the navigation, there are icons for "Refresh", "Favorite", "Add", and "Report Metadata". The "Add" icon is also highlighted with an orange box. A modal dialog box titled "Add Group Share Policy" is open in the foreground. It contains the following fields: "Policy Name" with the value "Group1_and_Group2", "Policy Description" (empty), and "Select Groups" with a dropdown menu showing "Group1@tme-demo.local, Group2@tme-demo.local". The "Select Groups" dropdown is highlighted with an orange box. At the bottom of the dialog are "Submit" and "Close" buttons.

Enable Group Share Policy

- [Admin Portal] Location: Administration → Users and Groups → User Groups
- You must now enable the “Group Share Policy” on both groups

Edit Group

Name: Group1@tme-demo.local

Description:

Code:

Cost Center:

Contact Email: group1@tme-demo.local

First Name:

Last Name:

Phone:

Address:

Group Share Policy: Group1_and_Group2

Allow Resource Assignment To Users

Save Close

Edit Group

Name: Group2@tme-demo.local

Description:

Code:

Cost Center:

Contact Email: group2@tme-demo.local

First Name:

Last Name:

Phone:

Address:

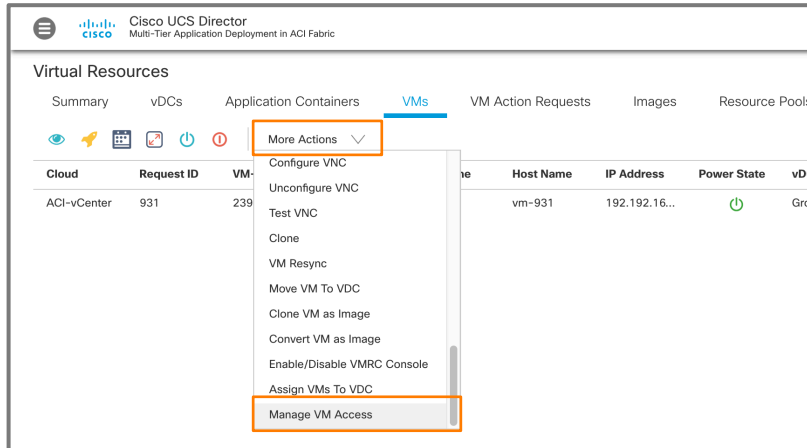
Group Share Policy: Group1_and_Group2

Allow Resource Assignment To Users

Save Close

Manage VM Access Option

- [End-User Portal] Location: Virtual Resources → VMs
- Highlight the VM and click on “More Actions”, select the “Manage VM Access” option
- This is the option that allows a user to manage user access to a particular VM resource



The screenshot displays the Cisco UCS Director interface. At the top, it shows the Cisco logo and the text "Cisco UCS Director Multi-Tier Application Deployment in ACI Fabric". Below this, the "Virtual Resources" section is active, with tabs for Summary, vDCs, Application Containers, VMs, VM Action Requests, Images, and Resource Pools. The "VMs" tab is selected. A table lists VM resources with columns for Cloud, Request ID, VM Name, Host Name, IP Address, Power State, and vDC. A row is visible with Request ID 931 and VM Name 239. A "More Actions" dropdown menu is open over the VM row, listing various actions such as "Configure VNC", "Unconfigure VNC", "Test VNC", "Clone", "VM Resync", "Move VM To VDC", "Clone VM as Image", "Convert VM as Image", "Enable/Disable VMRC Console", "Assign VMs To VDC", and "Manage VM Access". The "Manage VM Access" option is highlighted with an orange box. The "More Actions" dropdown menu is also highlighted with an orange box.

Cloud	Request ID	VM Name	Host Name	IP Address	Power State	vDC
ACI-vCenter	931	239	vm-931	192.192.16...	🟢	Group

Manage VM Access Option

Cisco UCS Director
Multi-Tier Application Deployment in ACI Fabric

Virtual Resources | VMs

Manage VM Access

VM OWNERSHIP

[-] USER*

	Login Name	Host	First Name	Last Name	Access Level	User Group	Contact Email Address	Source
<input checked="" type="checkbox"/>	Group1_User@tme-de...	172.31.241.153	Group1_User		Service End-User	Group1@tme-demo.io...		External

VM ACCESS SHARING

[-] USERS WITH ACCESS PRIVILEGE

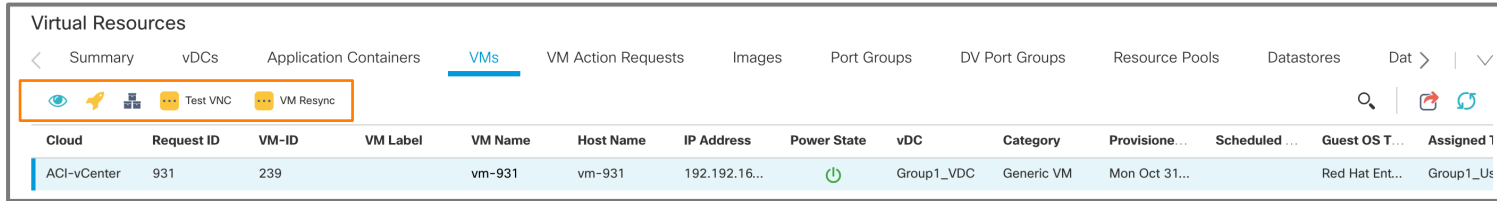
	Login Name	Host	First Name	Last Name	Access Level	User Group	Contact Email Address	Source
<input type="checkbox"/>	Group2_User@tme-de...	172.31.241.153	Group2_User		Service End-User	Group2@tme-demo.io...		External

[-] USERS WITH MANAGE PRIVILEGE

	Login Name	Host	First Name	Last Name	Access Level	User Group	Contact Email Address	Source
<input type="checkbox"/>	Group2_User@tme-de...	172.31.241.153	Group2_User		Service End-User	Group2@tme-demo.io...		External

VM Access Sharing Options

- **Users with Access Privilege** → allows user to access VM console and request inventory collection for VM



Virtual Resources

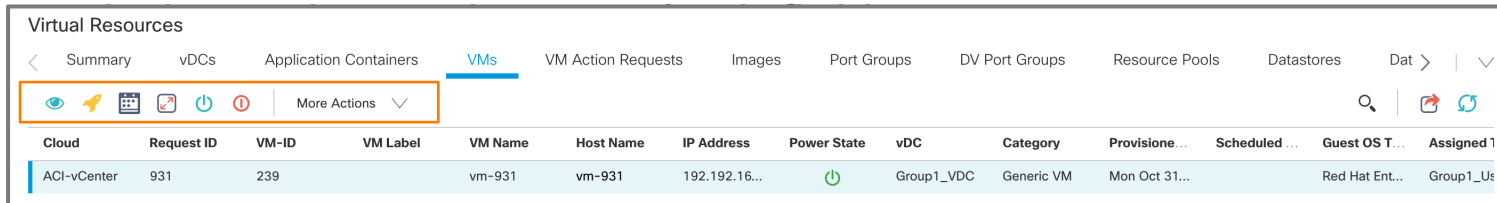
Summary vDCs Application Containers **VMs** VM Action Requests Images Port Groups DV Port Groups Resource Pools Datastores Dat > | ▾

Test VNC VM Resync

Cloud	Request ID	VM-ID	VM Label	VM Name	Host Name	IP Address	Power State	vDC	Category	Provisione...	Scheduled ...	Guest OS T...	Assigned 1
ACI-vCenter	931	239		vm-931	vm-931	192.192.16...	🟢	Group1_VDC	Generic VM	Mon Oct 31...		Red Hat Ent...	Group1_Us

This screenshot shows the vCenter interface for a VM. The 'VMs' tab is selected. In the top toolbar, 'Test VNC' and 'VM Resync' are highlighted with an orange box, indicating the actions available to a user with 'Access Privilege'.

- **Users with Manage Privilege** → allows users to manage VM based on the complete set of VM management permissions configured in



Virtual Resources

Summary vDCs Application Containers **VMs** VM Action Requests Images Port Groups DV Port Groups Resource Pools Datastores Dat > | ▾

More Actions ▾

Cloud	Request ID	VM-ID	VM Label	VM Name	Host Name	IP Address	Power State	vDC	Category	Provisione...	Scheduled ...	Guest OS T...	Assigned 1
ACI-vCenter	931	239		vm-931	vm-931	192.192.16...	🟢	Group1_VDC	Generic VM	Mon Oct 31...		Red Hat Ent...	Group1_Us

This screenshot shows the vCenter interface for a VM. The 'VMs' tab is selected. In the top toolbar, a 'More Actions' dropdown menu is highlighted with an orange box, indicating the full set of management permissions available to a user with 'Manage Privilege'.

From "Group2_User" perspective



CISCO

TOMORROW starts here.