

CDAC - HCI PERMISSIONS

October 2024

Step 1: Add a New User Manually

Go to **Data Center > Permissions > User**, and click **Add**.

The screenshot shows the C-DAC HCI management interface. The top bar includes the C-DAC HCI logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. The left sidebar shows a tree view with 'Datacenter' expanded, containing 'cdachi'. The main panel is titled 'Datacenter' and shows a list of items: Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users (selected), API Tokens, Two Factor, Groups, and Pools. The 'Users' section is active, displaying a table with columns: User name, Realm, Enabled, Expire, Name, TFA, Groups, and Comment. A red arrow points to the 'Add' button above the table. The table contains one entry: 'root' in the User name column, 'pam' in the Realm column, 'Yes' in the Enabled column, 'never' in the Expire column, and 'No' in the TFA column. The bottom bar shows 'Tasks' and 'Cluster log'.

User name ↑	Realm ↑	Enabled	Expire	Name	TFA	Groups	Comment
root	pam	Yes	never		No		

Step 2: Fill in User Details

Enter the **Username**, select the **Realm**, and click **Add**.

The screenshot shows the C-DAC HCI interface. On the left, the 'Server View' sidebar shows 'Datacenter' expanded, with 'cdachi' listed. The 'Users' option is selected in the sidebar. The main area displays a table of users with columns: User name, Realm, Enabled, Expire, Name, TFA, Groups, and Comment. The table contains one row with the user 'root' in the 'pam' realm, enabled, with an expiration of 'never', and TFA set to 'No'. A modal dialog titled 'Add: User' is open in the foreground. It contains the following fields: 'User name' (text input with 'test'), 'First Name' (text input), 'Realm' (dropdown menu with 'Linux PAM standard aut' selected), 'Last Name' (text input), 'Group' (dropdown menu), 'E-Mail' (text input), 'Expire' (text input with 'never' and a calendar icon), 'Enabled' (checkbox checked), and 'Comment' (text input). At the bottom of the dialog, there is an 'Advanced' checkbox and an 'Add' button. A red arrow points to the 'Add' button.

Add: User

User name: First Name:

Realm: Last Name:

Group: E-Mail:

Expire:

Enabled: ☒

Comment:

Advanced ☐ **Add**

C-DAC HCI

Search

Create VM

Create CT

root@pam

Server View

Datacenter

cdachi

Summary

Notes

Cluster

Ceph

Options

Storage

Backup

Replication

Permissions

Users

API Tokens

Two Factor

Groups

Pools

Add

Edit

Remove

Password

Permissions

Unlock TFA

User name ↑	Realm ↑	Enabled	Expire	Name	TFA	Groups	Comment
root	pam	Yes	never		No		

Add: User

User name:

test

First Name:

Realm:

Linux PAM standard aut

Last Name:

Group:

Linux PAM standard authentication

Proxmox VE authentication server

Expire:

Enabled:

☒

Comment:

Advanced

☐

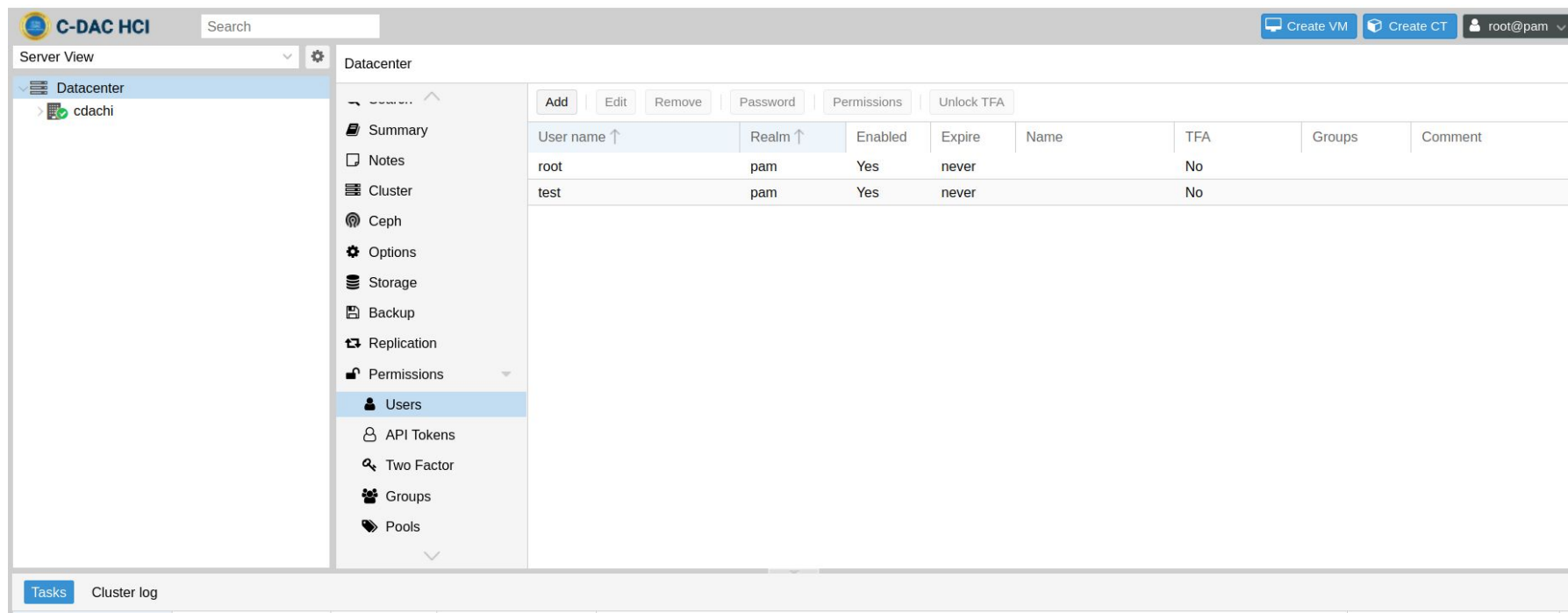
Add

Tasks

Cluster log

Step 3: User Added

The **new user** is added successfully.

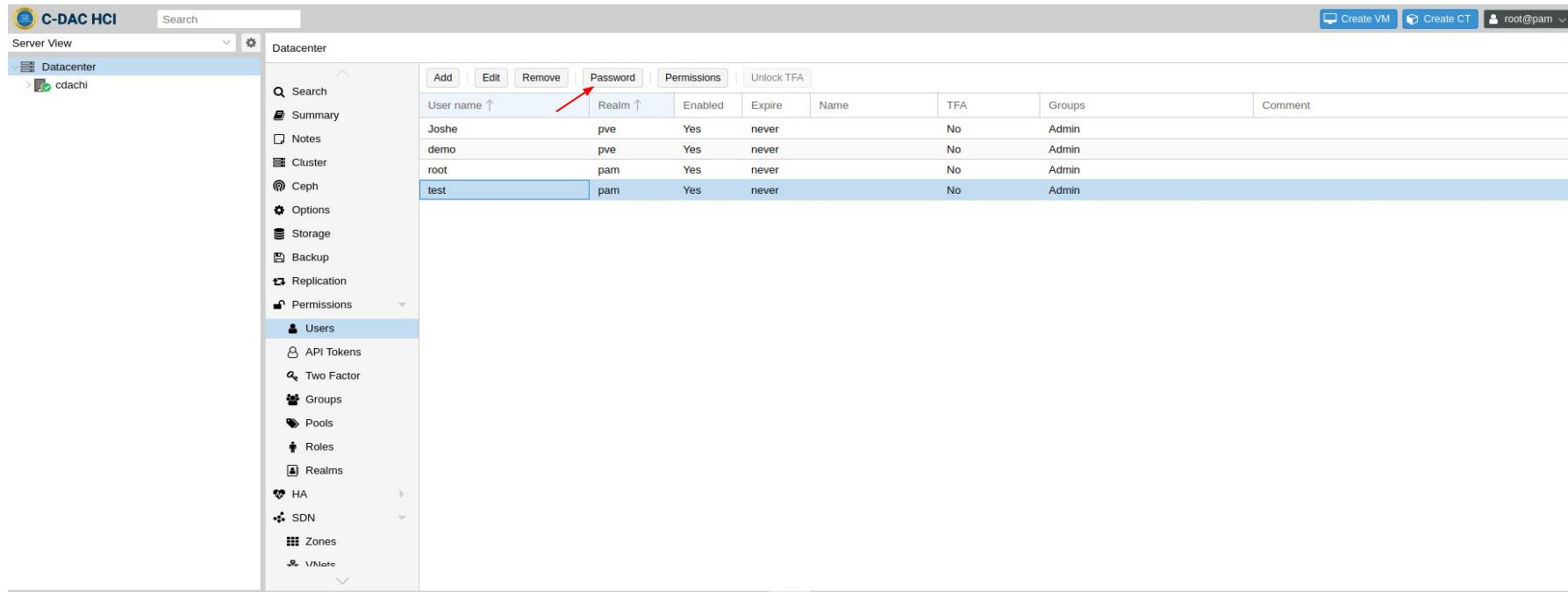


The screenshot displays the C-DAC HCI management interface. The top header includes the C-DAC HCI logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile dropdown showing 'root@pam'. The left sidebar shows a tree view with 'Datacenter' expanded, containing a sub-item 'cdachi'. The main content area is titled 'Datacenter' and features a sidebar menu with options: Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users (selected), API Tokens, Two Factor, Groups, and Pools. The 'Users' section is active, showing a table with columns: User name, Realm, Enabled, Expire, Name, TFA, Groups, and Comment. The table contains two entries: 'root' and 'test', both with realm 'pam', enabled status 'Yes', and expiration 'never'. The 'test' user has 'No' for TFA, Groups, and Comment. Above the table are buttons for 'Add', 'Edit', 'Remove', 'Password', 'Permissions', and 'Unlock TFA'. The bottom status bar shows 'Tasks' and 'Cluster log'.

User name	Realm	Enabled	Expire	Name	TFA	Groups	Comment
root	pam	Yes	never		No		
test	pam	Yes	never		No		

Step 4: Set Password for PAM User

For **PAM** users, select the user from the list, click **Password**, set a **New Password**, Click **OK** and so that the user can log in using their username and password.



The screenshot shows the C-DAC HCI management interface. On the left is a sidebar with a 'Server View' dropdown and a search bar. Below this is a tree view showing 'Datacenter' expanded, with 'cdachi' as a sub-item. The main area is titled 'Datacenter' and contains a list of management options: Search, Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users (selected), API Tokens, Two Factor, Groups, Pools, Roles, Realms, HA, SDN, Zones, and VMs. The 'Users' section is active, displaying a table of users. Above the table are buttons for 'Add', 'Edit', 'Remove', 'Password', 'Permissions', and 'Unlock TFA'. A red arrow points to the 'Password' button. The table has columns for 'User name', 'Realm', 'Enabled', 'Expire', 'Name', 'TFA', 'Groups', and 'Comment'. The 'test' user is selected.

User name	Realm	Enabled	Expire	Name	TFA	Groups	Comment
Joshe	pve	Yes	never		No	Admin	
demo	pve	Yes	never		No	Admin	
root	pam	Yes	never		No	Admin	
test	pam	Yes	never		No	Admin	

C-DAC HCI

Search

Create VM

Create CT

root@pam

Server View

Datacenter

cdachi

localnetwork (cdachi)

local (cdachi)

Search

Summary

Notes

Cluster

Ceph

Options

Storage

Backup

Replication

Permissions

Users

API Tokens

Two Factor

Groups

Pools

Roles

Realms

HA

SDN

Zones

V/M/late

Add

Edit

Remove

Password

Permissions

Unlock TFA

User name ↑	Realm ↑	Enabled	Expire	Name	TFA	Groups	Comment
root	pam	Yes	never		No		
test	pam	Yes	never		No		

Edit: Password

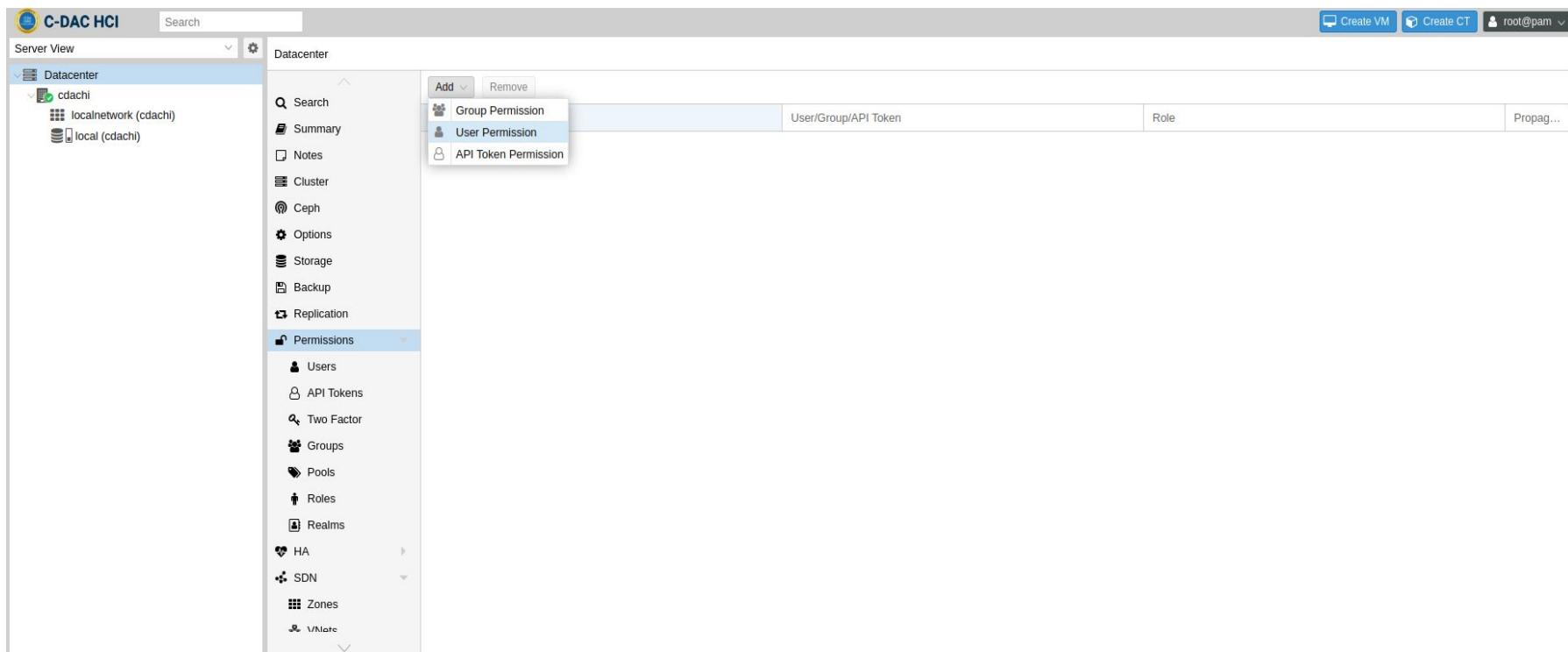
New Password: *****

Confirm New Password: *****

OK

Step 5: Assign Roles to the New User

Navigate to **Permissions > User Permission**, then click **Add**. A popup will appear.



The screenshot shows the C-DAC HCI management interface. The top bar includes the 'C-DAC HCI' logo, a search bar, and buttons for 'Create VM' and 'Create CT'. The user 'root@pam' is logged in. The left sidebar shows the 'Datacenter' view with a tree structure including 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. The main panel displays the 'Datacenter' settings, with the 'Permissions' section selected. A dropdown menu is open, showing 'Add' and 'Remove' options. The 'Add' option is selected, and a popup menu is displayed with the following options: 'Group Permission', 'User Permission' (highlighted), and 'API Token Permission'. The main panel also shows a table with columns for 'User/Group/API Token', 'Role', and 'Propag...'.

User/Group/API Token	Role	Propag...
----------------------	------	-----------

Step 6: Set Access Path and Role

Specify the **Path** for access (use **/** for full access).

The screenshot displays the C-DAC HCI management interface. On the left, a sidebar shows the 'Server View' with a tree structure under 'Datacenter' containing 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. Below this is a list of navigation items: Search, Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions (selected), Users, API Tokens, Two Factor, Groups, Pools, Roles, Realms, HA, SDN, Zones, and V/Hosts. The main area shows a table with columns 'Path', 'User/Group/API Token', 'Role', and 'Propag...'. An 'Add' button is visible above the table. Overlaid on the main area is a dialog box titled 'Add: User Permission'. This dialog has four fields: 'Path', 'User', 'Role', and 'Propagate'. The 'Path' field is open, showing a dropdown menu with the following options: '/', '/access', '/access/groups', '/access/realms', '/mapping', '/mapping/notifications', '/mapping/pci', '/mapping/usb', '/nodes', '/nodes/cdachi', '/pool', and '/sdn/zones'. The '/' option is currently selected. A 'Help' button is located at the bottom left of the dialog box.

Select the **User** who need access to the Roles.

The screenshot displays the C-DAC HCI management interface. The top navigation bar includes the 'C-DAC HCI' logo, a search bar, and buttons for 'Create VM' and 'Create CT'. The user 'root@pam' is logged in. The left sidebar shows a tree view of the 'Datacenter' with sub-items 'localnetwork (cdachi)' and 'local (cdachi)'. The main panel is titled 'Datacenter' and contains a list of items with columns 'Path', 'User/Group/API Token', 'Role', and 'Propag...'. An 'Add' button is visible above the list. A modal dialog box titled 'Add: User Permission' is open in the center. It contains a 'Path' dropdown set to '/', a 'User' dropdown set to 'test@pam', a 'Role' dropdown, and a 'Propagate' dropdown set to 'root@pam'. Below these fields is a table with columns 'User', 'Name', and 'Comment'. The table lists 'test@pam' as a user. At the bottom of the dialog are 'Help' and 'Add' buttons.

Add: User Permission

Path: /

User: test@pam

Role:

Propagate: root@pam

User	Name	Comment
test@pam		

Help Add

C-DAC HCI

Search

Create VM

Create CT

root@pam

Server View

Datacenter

cdachi

localnetwork (cdachi)

local (cdachi)

Search

Summary

Notes

Cluster

Ceph

Options

Storage

Backup

Replication

Permissions

Users

API Tokens

Two Factor

Groups

Pools

Roles

Realms

HA

SDN

Zones

VMware

Add

Remove

Path	User/Group/API Token	Role	Propag...
------	----------------------	------	-----------

Add: User Permission

Path:

/

User:

test@pam

Role:

NoAccess

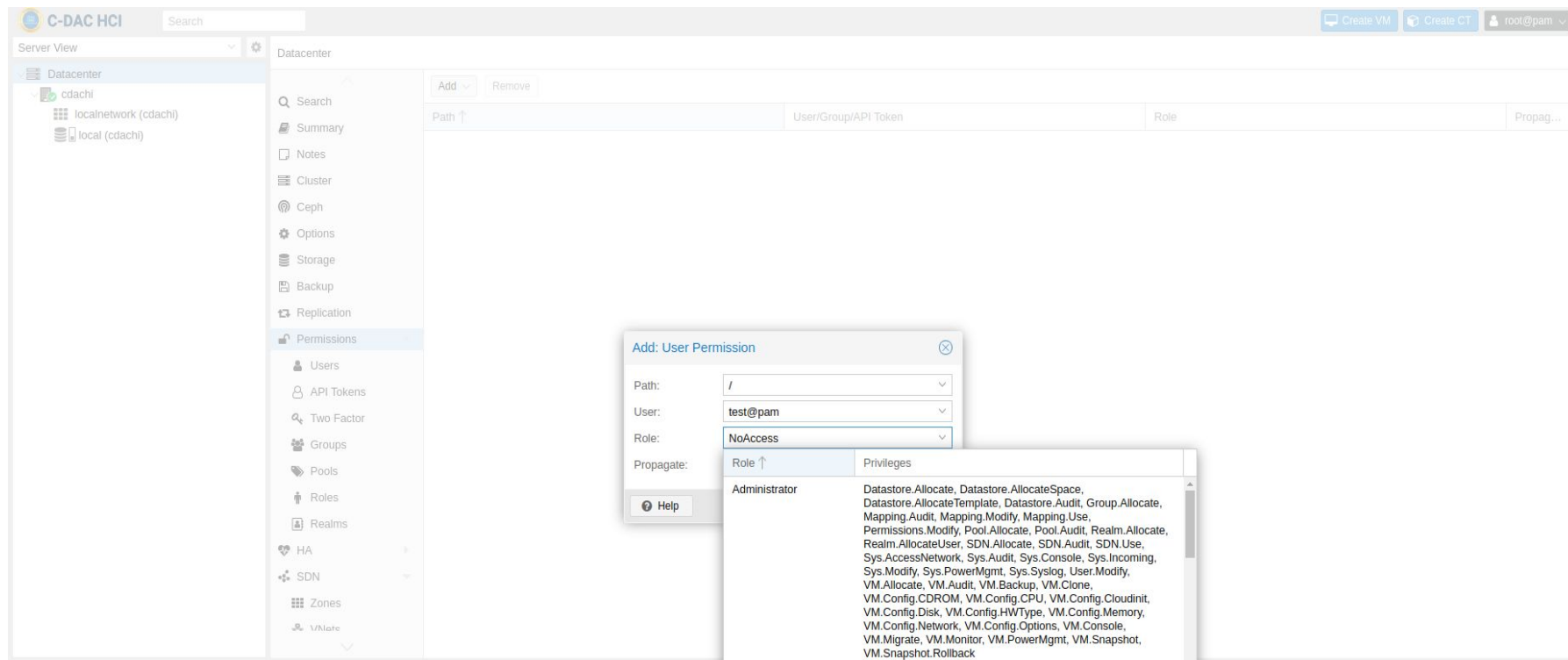
Propagate:

☒

Help

Add

Choose a **Role** from the dropdown menu for Proxmox dashboard access, then click **Add**.



The screenshot shows the Proxmox VE web interface. The left sidebar displays the 'Datacenter' view with a tree structure showing 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. The main panel shows the 'Permissions' section. A dialog box titled 'Add: User Permission' is open, showing the following fields:

- Path: /
- User: test@pam
- Role: NoAccess
- Propagate: Role ↑

The 'Role' dropdown menu is open, showing a list of roles. The 'Administrator' role is selected, and its privileges are listed below:

Role	Privileges
Administrator	Datastore.Allocate, Datastore.AllocateSpace, Datastore.AllocateTemplate, Datastore.Audit, Group.Allocate, Mapping.Audit, Mapping.Modify, Mapping.Use, Permissions.Modify, Pool.Allocate, Pool.Audit, Realm.Allocate, Realm.AllocateUser, SDN.Allocate, SDN.Audit, SDN.Use, Sys.AccessNetwork, Sys.Audit, Sys.Console, Sys.Incoming, Sys.Modify, Sys.PowerMgmt, Sys.Syslog, User.Modify, VM.Allocate, VM.Audit, VM.Backup, VM.Clone, VM.Config.CDROM, VM.Config.CPU, VM.Config.Cloudinit, VM.Config.Disk, VM.Config.HWType, VM.Config.Memory, VM.Config.Network, VM.Config.Options, VM.Console, VM.Migrate, VM.Monitor, VM.PowerMgmt, VM.Snapshot, VM.Snapshot.Rollback

C-DAC HCI

Search

Create VM

Create CT

root@pam

Server View

Datacenter

cdachi

localnetwork (cdachi)

local (cdachi)

Search

Summary

Notes

Cluster

Ceph

Options

Storage

Backup

Replication

Permissions

Users

API Tokens

Two Factor

Groups

Pools

Roles

Realms

HA

SDN

Zones

VMstate

Add

Remove

Path ↑	User/Group/API Token	Role	Propag...
--------	----------------------	------	-----------

Add: User Permission

Path: /

User: test@pam

Role: Administrator

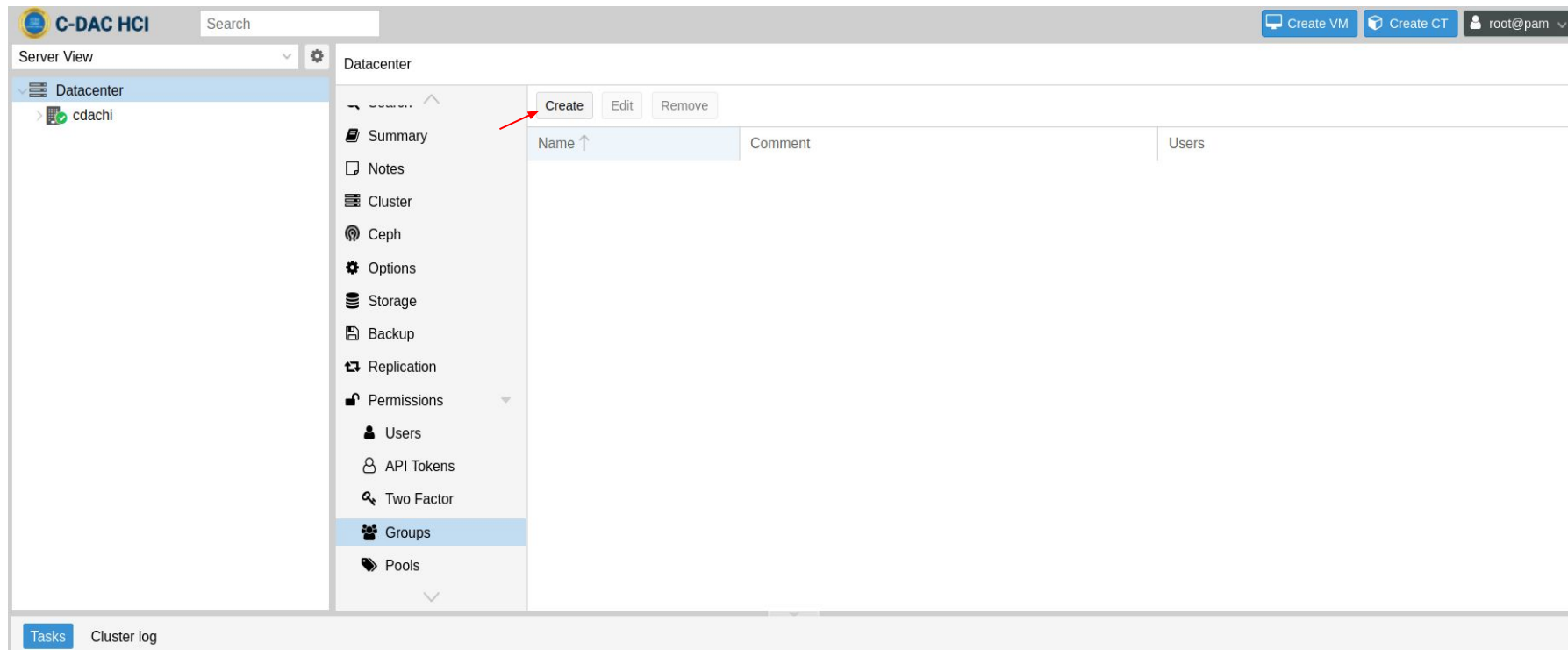
Propagate: ☒

Help

Add

Step 7: Create a Group for Users in Proxmox

Go to **Data Center > Permissions > Groups**, and click the **Create** button. A popup will appear.



The screenshot displays the Proxmox VE web interface. The top header includes the 'C-DAC HCI' logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. The left sidebar shows a tree view with 'Datacenter' expanded, containing 'cdachi'. The main content area is titled 'Datacenter' and features a sidebar menu with options: Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions (expanded), Users, API Tokens, Two Factor, Groups (selected), and Pools. A red arrow points to the 'Create' button in the top right of the main content area. Below this button are three columns: 'Name ↑', 'Comment', and 'Users'.

Name ↑	Comment	Users
--------	---------	-------

At the bottom of the interface, there are buttons for 'Tasks' and 'Cluster log'.

Step 8: Name the Group

Enter a **Name** for the group (e.g., use "Admin" if it's an admin group). Click the **Create** button.

The screenshot displays the C-DAC HCI web interface. At the top, there is a header bar with the C-DAC HCI logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. Below the header, the left sidebar shows a 'Server View' dropdown and a 'Datacenter' section with a tree view containing 'cdachi'. A central menu lists various system components: Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users, API Tokens, Two Factor, Groups (highlighted), and Pools. The main content area shows a 'Datacenter' view with a table header for 'Name', 'Comment', and 'Users'. Overlaid on this is a 'Create: Group' dialog box. The dialog has a close button (X) in the top right. It contains two input fields: 'Name' with the text 'Admin' and 'Comment' which is empty. At the bottom right of the dialog is a blue 'Create' button, which is pointed to by a red arrow.

The **Admin group** is created successfully.

The screenshot displays the C-DAC HCI management interface. At the top, there is a header bar with the C-DAC HCI logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. Below the header, the 'Server View' dropdown is set to 'Datacenter'. The left sidebar shows a tree view with 'Datacenter' expanded, revealing a sub-item 'cdachi'. The main content area is titled 'Datacenter' and features a sidebar menu with options: Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users, API Tokens, Two Factor, Groups (highlighted), and Pools. The 'Groups' section is active, showing a table with columns 'Name', 'Comment', and 'Users'. A 'Create' button is visible above the table. The table contains one entry: 'Admin'.

Name	Comment	Users
Admin		

At the bottom of the interface, there is a 'Tasks' button and a 'Cluster log' link.

Step 9: Assign Users to the Group (e.g., Admin Group)

Go to **Data Center > Permissions > Users**, and select the user you want to add to the Admin group. Click the **Edit** button.

The screenshot shows the C-DAC HCI Datacenter interface. The left sidebar contains a navigation menu with the following items: Datacenter, cdachi, localnetwork (cdachi), local (cdachi), Search, Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users (selected), API Tokens, Two Factor, Groups, Pools, Roles, Realms, HA, SDN, Zones, and V/Node. The main content area displays the Users page with a table of users. The 'Edit' button is highlighted with a red arrow.

User name ↑	Realm ↑	Enabled	Expire	Name	TFA	Groups	Comment
root	pam	Yes	never		No		
test	pam	Yes	never		No		

In the Popup go to **Group** column, select the group from the dropdown menu (e.g., **Admin**). Click **OK** to add the user to the group. You can assign multiple users to the Admin group.

The screenshot shows the C-DAC HCI interface. On the left is a sidebar with a 'Server View' dropdown and a search bar. Below it is a tree view of the 'Datacenter' containing 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. A central menu lists various system components like Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions, Users, API Tokens, Two Factor, Groups, Pools, Roles, Realms, HA, SDN, Zones, and V/Net. The main area displays a table of users with columns: User name, Realm, Enabled, Expire, Name, TFA, Groups, and Comment. The table lists 'root' and 'test' users, both in the 'pam' realm and 'Enabled'. Overlaid on this is an 'Edit: User' dialog box for the user 'test@pam'. The dialog has fields for 'User name', 'Group' (set to 'Admin'), 'First Name', 'Last Name', 'Expire', 'Enabled', and 'Comment'. A small table within the dialog shows the 'Group' column with 'Admin' selected, and the 'Users' column. At the bottom right of the dialog is an 'OK' button, which is highlighted by a red arrow.

User name	Realm	Enabled	Expire	Name	TFA	Groups	Comment
root	pam	Yes	never		No		
test	pam	Yes	never		No		

Edit: User

User name: test@pam First Name:

Group: Admin X Last Name:

Group	Comment	Users
Admin		

Expire:

Enabled: ☐

Comment:

Advanced ☐ **OK**

The User is added to the **Admin group** successfully.

The screenshot displays the C-DAC HCI management interface. The top navigation bar includes the C-DAC HCI logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. The left sidebar shows a tree view under 'Server View' with 'Datacenter' expanded, containing 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. The main panel is titled 'Datacenter' and shows the 'Permissions' section. A red arrow points to the 'Add' button. Below it, a table lists permissions:

Path ↑	User/Group/API Token	Role	Propag...
/	test@pam	Administrator	true

The bottom status bar shows 'Tasks' and 'Cluster Ina'.

Step 10: Assign Role Access Permissions to the Admin Group

Go to **Data Center > Permissions**, and click the **Add** button. Select **Group Permission** from the dropdown. A popup will appear.

The screenshot shows the C-DAC HCI web interface. The top navigation bar includes the C-DAC HCI logo, a search bar, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. The left sidebar shows a tree view under 'Datacenter' with 'cdachi' expanded, showing 'localnetwork (cdachi)' and 'local (cdachi)'. The main panel is titled 'Datacenter' and contains a list of navigation items: Search, Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions (selected), Users, API Tokens, Two Factor, Groups, Pools, Roles, Realms, and HA. A dropdown menu is open over the 'Add' button, showing three options: 'Group Permission' (selected), 'User Permission', and 'API Token Permission'. The main table displays a single entry for a Group Permission.

Add	Remove	User/Group/API Token	Role	Propag...
		test@pam	Administrator	true

Step 11: Set Access Path and Role for the Group

Specify the **Path** for access (use **/** for full access).

The screenshot shows the C-DAC HCI management interface. The left sidebar contains a 'Server View' dropdown and a 'Datacenter' section with a tree view showing 'cdachi' and its sub-items 'localnetwork (cdachi)' and 'local (cdachi)'. Below this is a list of navigation items: Search, Summary, Notes, Cluster, Ceph, Options, Storage, Backup, Replication, Permissions (selected), Users, API Tokens, Two Factor, Groups, Pools, Roles, Realms, and HA. The main area displays a table of permissions. A modal dialog titled 'Add: Group Permission' is open, showing a dropdown for 'Path' with '/' selected, a dropdown for 'Group' with '/' selected, and a list of roles including '/access', '/access/groups', '/access/realm', '/mapping', '/mapping/notifications', '/mapping/pci', '/mapping/usb', '/nodes', '/nodes/cdachi', and '/pool'. The 'Role' field is set to 'Administrator' and the 'Propagate' checkbox is checked.

Path	User/Group/API Token	Role	Propagate
/	test@pam	Administrator	true

Add: Group Permission

Path: /

Group: /

Role: /access

Propagate: /access/groups

Help

Select the **Group** (e.g., Admin Group) that needs access.

The screenshot displays the C-DAC HCI management interface. The top bar includes the 'C-DAC HCI' logo, a search field, and buttons for 'Create VM', 'Create CT', and a user profile 'root@pam'. The left sidebar shows a 'Server View' with a 'Datacenter' tree containing 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. A central menu lists various system components, with 'Permissions' currently selected. The main panel shows a table of permissions with columns for 'Path', 'User/Group/API Token', 'Role', and 'Propag...'. A single entry is visible for path '/' with token 'test@pam' and role 'Administrator'. An 'Add: Group Permission' dialog box is open in the foreground, featuring fields for 'Path' (set to '/'), 'Group' (with a dropdown menu), 'Role' (with a dropdown menu), and 'Propagate' (set to 'Admin'). A secondary dropdown menu is open for the 'Group' field, showing options 'Group ↑', 'Comment', and 'Users'. The 'Users' option is selected, and a list of users is displayed, including 'test@pam'. The dialog box also includes a 'Help' button and an 'Add' button.

Server View

Datacenter

- Datacenter
 - cdachi
 - localnetwork (cdachi)
 - local (cdachi)

Search

Summary

Notes

Cluster

Ceph

Options

Storage

Backup

Replication

Permissions

Users

API Tokens

Two Factor

Groups

Pools

Roles

Realms

HA

Add

Remove

Path ↑	User/Group/API Token	Role	Propag...
/	test@pam	Administrator	true

Add: Group Permission

Path: /

Group: [dropdown]

Role: [dropdown]

Propagate: Admin

Help

Add

Group ↑

Comment

Users

test@pam

Choose a **Role** from the dropdown menu for Proxmox dashboard access, then click **Add**.

The screenshot shows the Proxmox VE web interface. The left sidebar contains a tree view of the datacenter structure, including 'cdachi', 'localnetwork (cdachi)', and 'local (cdachi)'. The main panel displays the 'Permissions' section, which is currently empty. A modal dialog titled 'Add: Group Permission' is open, showing the following fields:

- Path: /
- Group: Admin
- Role: NoAccess
- Propagate: Role ↑

The 'Privileges' list is visible, showing a long list of permissions for the 'Administrator' role. The 'NoAccess' role is selected at the bottom of the list.

Start Time ↓	End Time	Node	User name	Description	Status
--------------	----------	------	-----------	-------------	--------

C-DAC HCI

Search

Create VM

Create CT

root@pam

Server View

Datacenter

cdachi

localnetwork (cdachi)

local (cdachi)

Permissions

Users

API Tokens

Two Factor

Groups

Pools

Roles

Realms

HA

Datacenter

Search

Summary

Notes

Cluster

Ceph

Options

Storage

Backup

Replication

Permissions

Add

Remove

Path ↑	User/Group/API Token	Role	Propag...
/	test@pam	Administrator	true

Add: Group Permission

Path:

/

Group:

Admin

Role:

Administrator

Propagate:

☒

Help

Add

Tasks

Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
--------------	----------	------	-----------	-------------	--------