

How to lease chameleon cloud

Welcome all!

Log In

Sign in via federated login

OR



Google



ORCID

TAS

Don't have an account? [Sign up now.](#)

- Step1:

- Go to chameleon webpage chi.uc.chameleoncloud.org
- Click sign in via federated login

- Step 2:

- Log in through globus, with your organization name – Mostly it would be 'Argonne National Laboratory', but If you don't know, ask to Rajesh
- Log in through Argonne auth



Log in to use Chameleon

Use your existing organizational login

e.g., university, national lab, facility, project

Argonne National Laboratory

Continue



Globus uses CILogon to enable you to Log In from this organization. By clicking Continue, you agree to the [CILogon privacy policy](#) and you agree to share your username, email address, and affiliation with CILogon and Globus. You also agree for CILogon to issue a certificate that allows Globus to act on your behalf.

OR



Sign in with Google



Sign in with ORCID iD



You have been redirected to this site by **National Center for Supercomputing Applications**. Please log in to continue.

Argonne Username

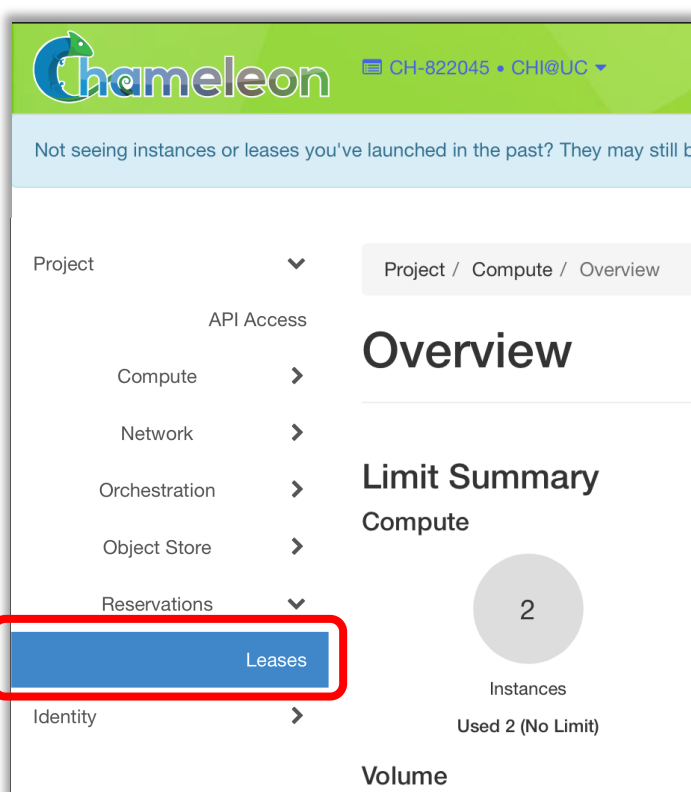
Password

Log In

Default Login

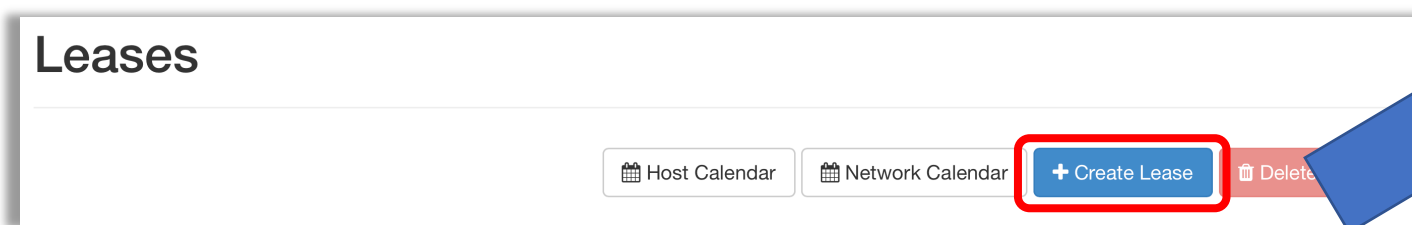
Integrated Login

Certificate Login

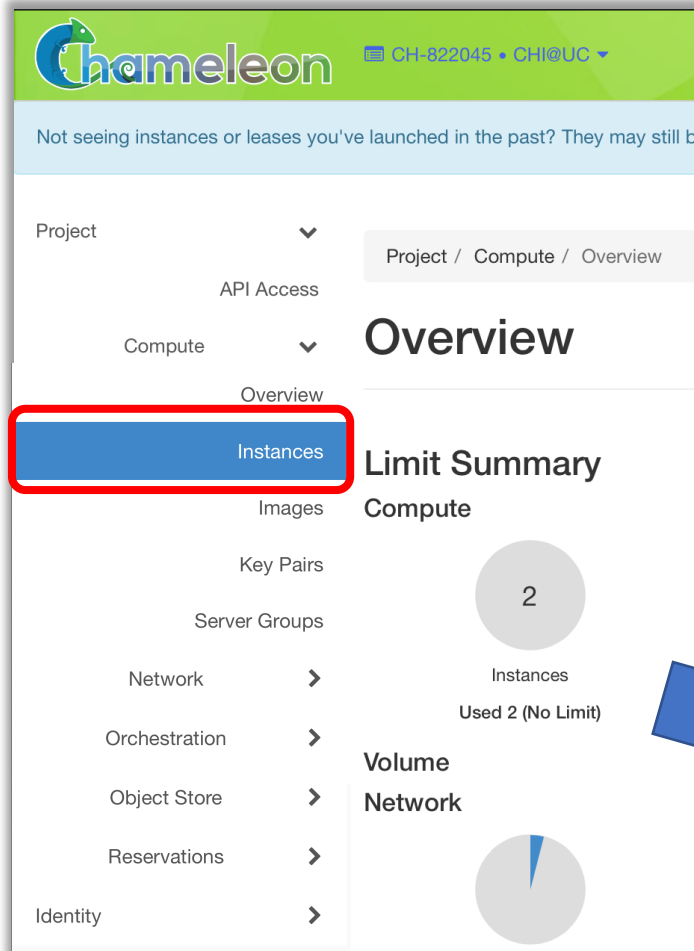


- Step3:
 - From project menu click 'Reservations – leases'
 - And click 'create lease'

- Step 4:
 - Write in
 - Lease Name
 - Lease Length (max 7days)
 - Select resource properties – if you are going to use gpu, you can select gpu model, number of gpus, or randomly create one
 - Ask 1 floating IP to access from your computer
 - And create it

A screenshot of the 'Create Lease' form in the Chameleon interface. The form contains several fields: 'Lease Name' (text input, highlighted with a red box), 'Start Date' (dropdown, 'Today'), 'Lease Length (days)' (dropdown, '7', highlighted with a red box), 'Ends' (text input, '2021-06-01'), 'Start Time' (dropdown, 'Now'), 'End Time' (text input, 'Same time as now'), 'Physical Hosts' (checkbox 'Reserve Physical Host' is checked), 'Network' (checkbox 'Reserve Network' is unchecked), 'Network Name' (text input), 'Network Description' (text input), 'Minimum Number of Hosts' (dropdown, '1'), 'Maximum Number of Hosts' (dropdown, '1'), 'Resource Properties' (dropdown menu showing 'gpu.gpu_model' and a selected item 'RTX 6000 V100', highlighted with a red box), and 'Number of Floating IP Addresses Needed' (dropdown, '1', highlighted with a red box). At the bottom right, there are 'Cancel' and 'Create' buttons, with the 'Create' button highlighted with a red box.

- Step 5: When your Lease became 'ACTIVE'
 - Go to Compute – instances
 - And click 'Launch Instance'



The screenshot shows the Chameleon dashboard. The top navigation bar includes the Chameleon logo, a project ID 'CH-822045', and a user 'CHI@UC'. Below the navigation bar, there's a sidebar with a list of categories: Project, API Access, Compute, Overview, Instances (highlighted with a red box), Images, Key Pairs, Server Groups, Network, Orchestration, Object Store, Reservations, and Identity. The main content area shows the 'Overview' page for the 'Project / Compute / Overview' section. It includes a 'Limit Summary' for 'Compute' showing '2' instances used out of 'No Limit'. There are also charts for 'Volume' and 'Network' usage.

Leases

Host Calendar Network Calendar + Create Lease Delete Leases

Displaying 3 items

<input type="checkbox"/>	Lease name	Start date	End date	Status	Degraded	Actions
<input type="checkbox"/>	name	2021-05-25 18:37 UTC	2021-05-26 18:36 UTC	PENDING	No	Update Lease ▾
<input type="checkbox"/>	act	2021-05-04 16:08 UTC	2021-05-28 16:07 UTC	ACTIVE	No	Update Lease ▾
<input type="checkbox"/>	plugins	2021-05-17 23:55 UTC	2021-05-30 23:54 UTC	ACTIVE	No	Update Lease ▾

Instances

Instance ID = ▾ Filter Launch Instance Delete Instances More Actions ▾

• Step 6: In Launch Instance

- Detail: Pair instance name and reservation (lease)
- Source: Select OS (CUDA10 and 11 are available, Ubuntu 18.04 recommended)
- Key Pair: Import you ssh key in the system using 'import Key Pair'
- And then Launch instance

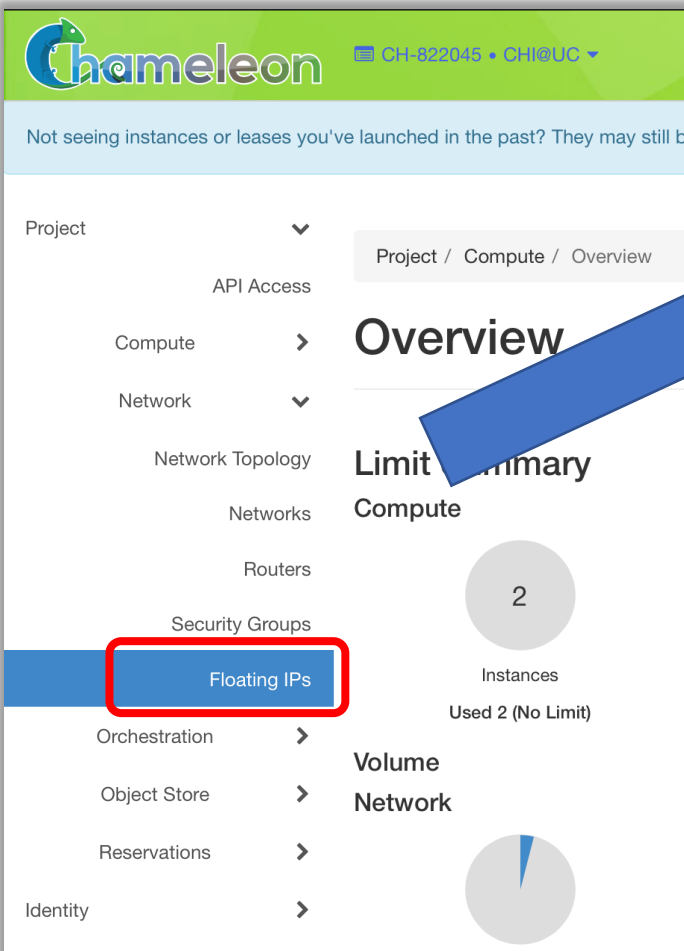
The image shows three overlapping screenshots of the AWS Management Console 'Launch Instance' wizard, illustrating the steps to launch an instance.

Screenshot 1 (Left): The 'Launch Instance' page. The 'Details' tab is selected. The 'Instance Name' field is filled with 'name'. The 'Description' field is empty. The 'Reservation' dropdown is set to 'name (71119c67-2d7b-459f-8d37-43...)'. The 'Count' is set to '1'. The 'Cancel' button is visible at the bottom left.

Screenshot 2 (Middle): The 'Launch Instance' page with the 'Source' tab selected. The 'Select Boot Source' section shows 'Image' as the selected source. The 'Allocated' section shows 'CC-Ubuntu18.04-CUDA10'. The 'Available' section shows 'CUDA10' as the selected option. The 'Cancel' button is visible at the bottom left.

Screenshot 3 (Right): The 'Launch Instance' page with the 'Key Pair' tab selected. The 'Key Pair' section shows 'Mac Pro' as the selected key pair. The 'Available' section shows '0' items. The 'Launch Instance' button is highlighted with a red box at the bottom right.

- Step 7:
 - Go to 'Network – Floating IPs'
 - Click Associate on new Floating IP
 - Pair the IP to your instance



Floating IPs

Floating IP Address = Filter [Allocate IP To Project](#) [Release Floating IPs](#)

Displaying 3 items

<input type="checkbox"/>	IP Address	Description	Mapped Fixed IP Address	Pool	Status	Actions
<input type="checkbox"/>	192.5.86.235		-	public	Down	Associate <input type="button" value="Disassociate"/>
<input type="checkbox"/>	192.5.87.206		plugins 10.140.82.128	public	Active	Disassociate <input type="button" value="Disassociate"/>
<input type="checkbox"/>	192.5.87.53		act 10.140.83.211	public		Disassociate <input type="button" value="Disassociate"/>

Manage Floating IP Associations

IP Address *

192.5.86.235

Port to be associated *

name: 10.140.81.203

Select the IP address you wish to associate with the selected instance or port.

- Then now you have your Chameleon instance
- Additional information:
 - In 'Reservations – leases', you can check what instances are available now by clicking 'Host Calendar'

Leases

 Host Calendar

 Network Calendar

+ Create Lease

 Delete Leases

Host Calendar

1d 1w 1m Start 05/24/2021 14 :00 End 06/01/2021 14 :00 Node Type All Nodes

