

CINECA

ADA cloud user documentation **Getting started**

HPC Cloud support group

Getting started workflow

STEP BY STEP user GUIDE

CINECA

Get a CINECA HPC user and a cloud project

Getting started workflow

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Get a CINECA HPC user and a cloud project



Access your cloud resources

Getting started workflow

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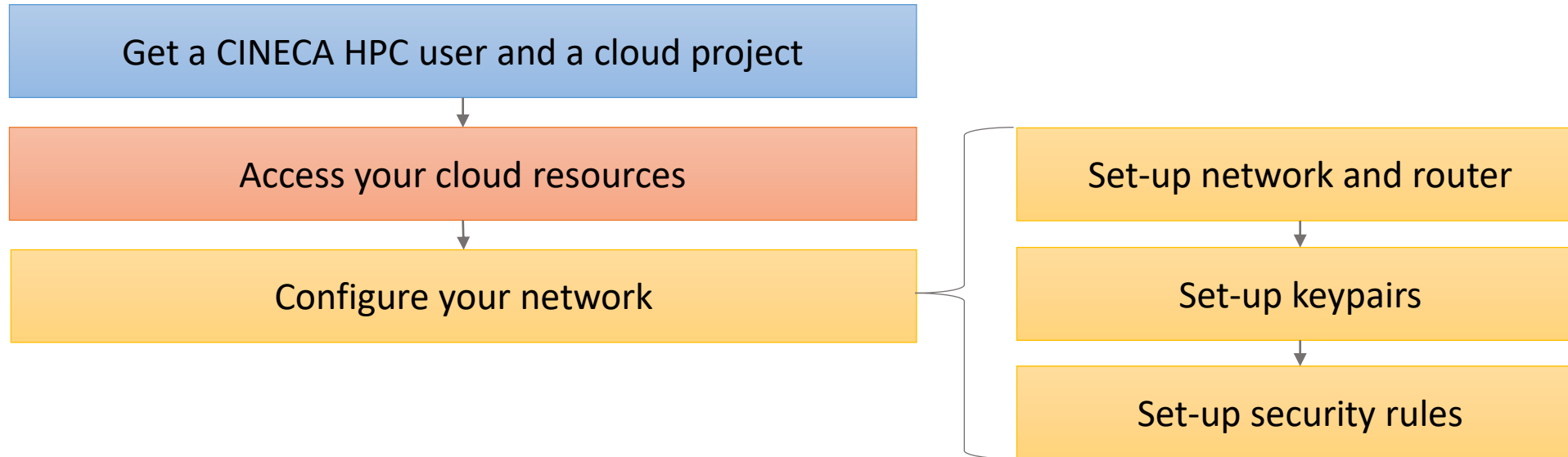
Get a CINECA HPC user and a cloud project

Access your cloud resources

Configure your network

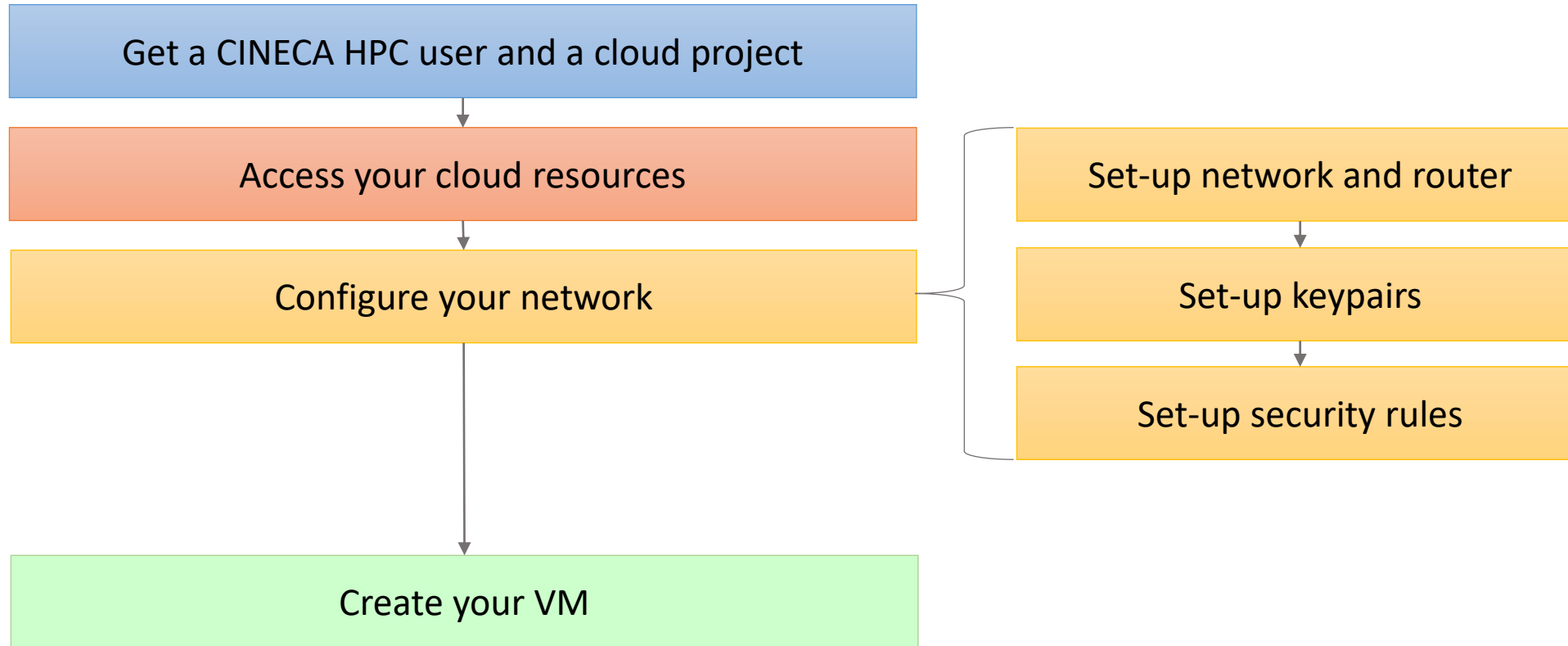
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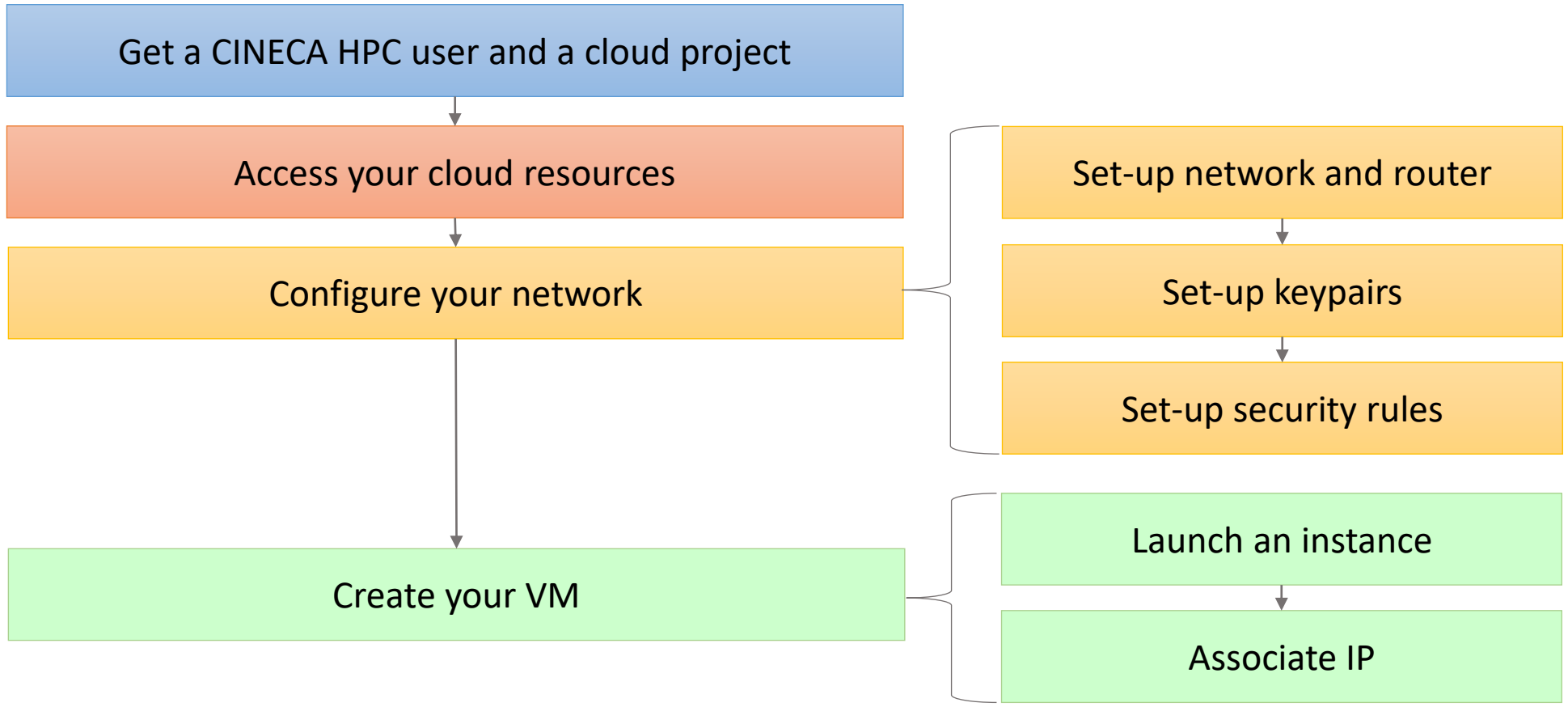
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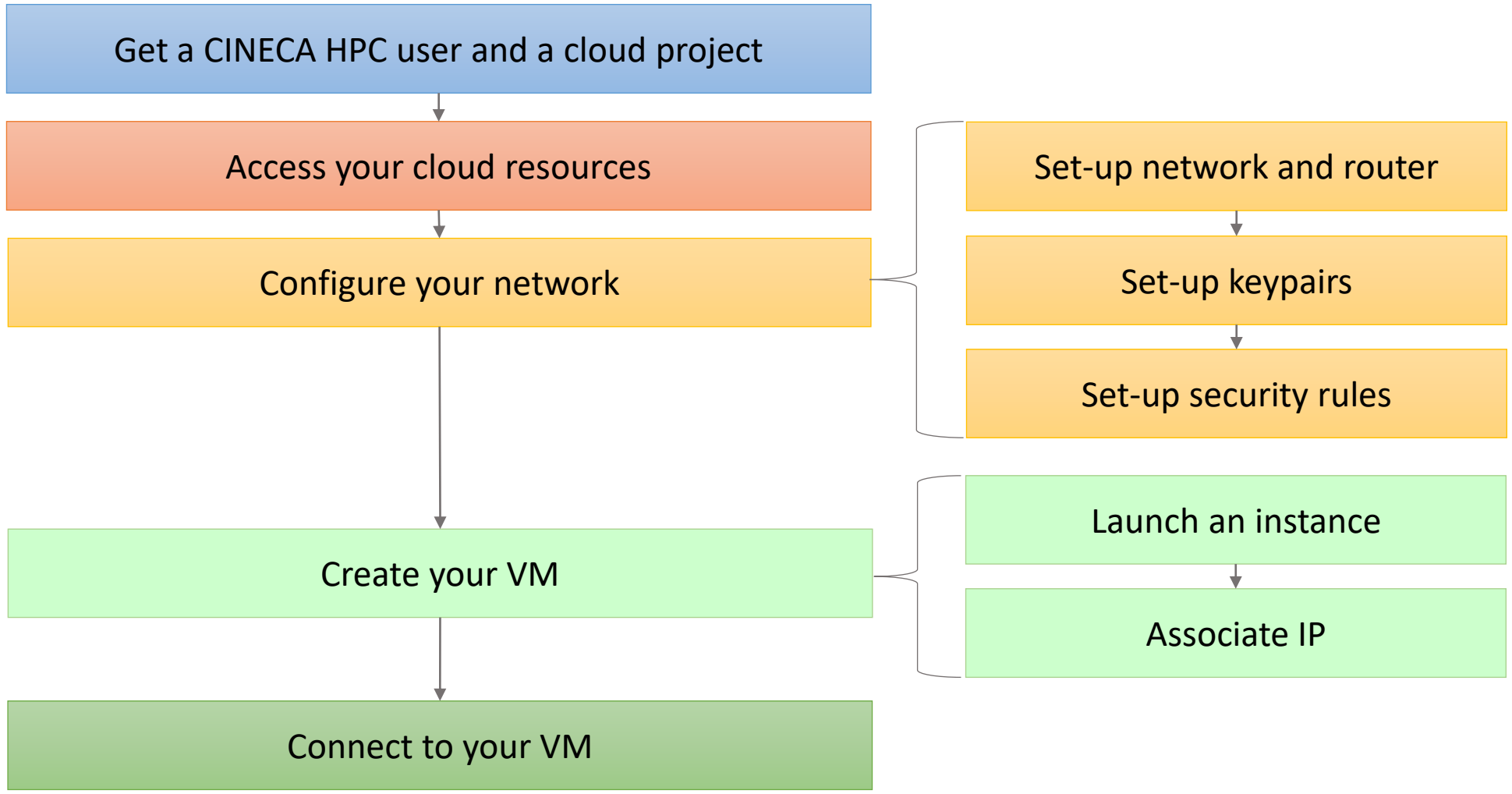
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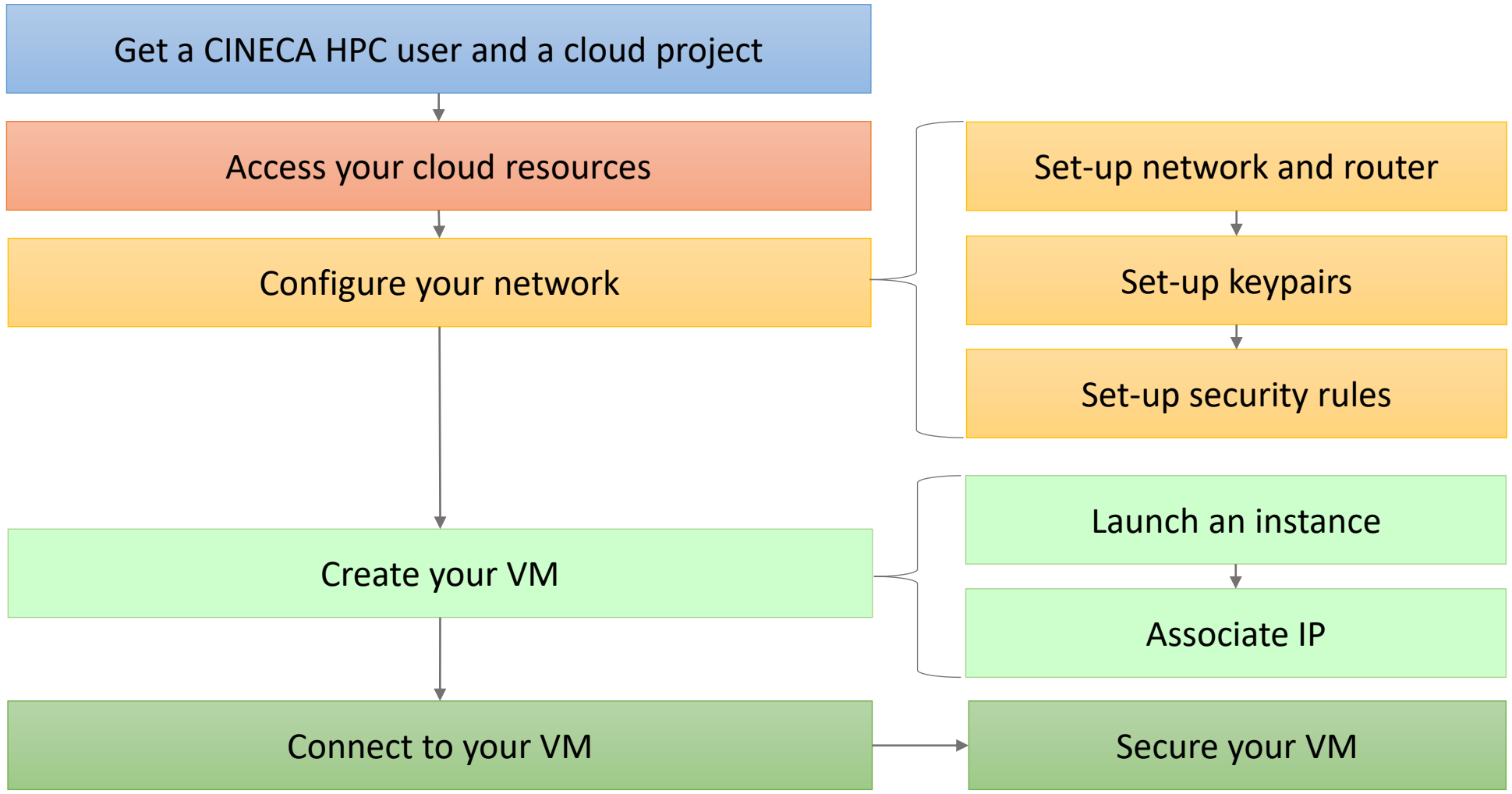
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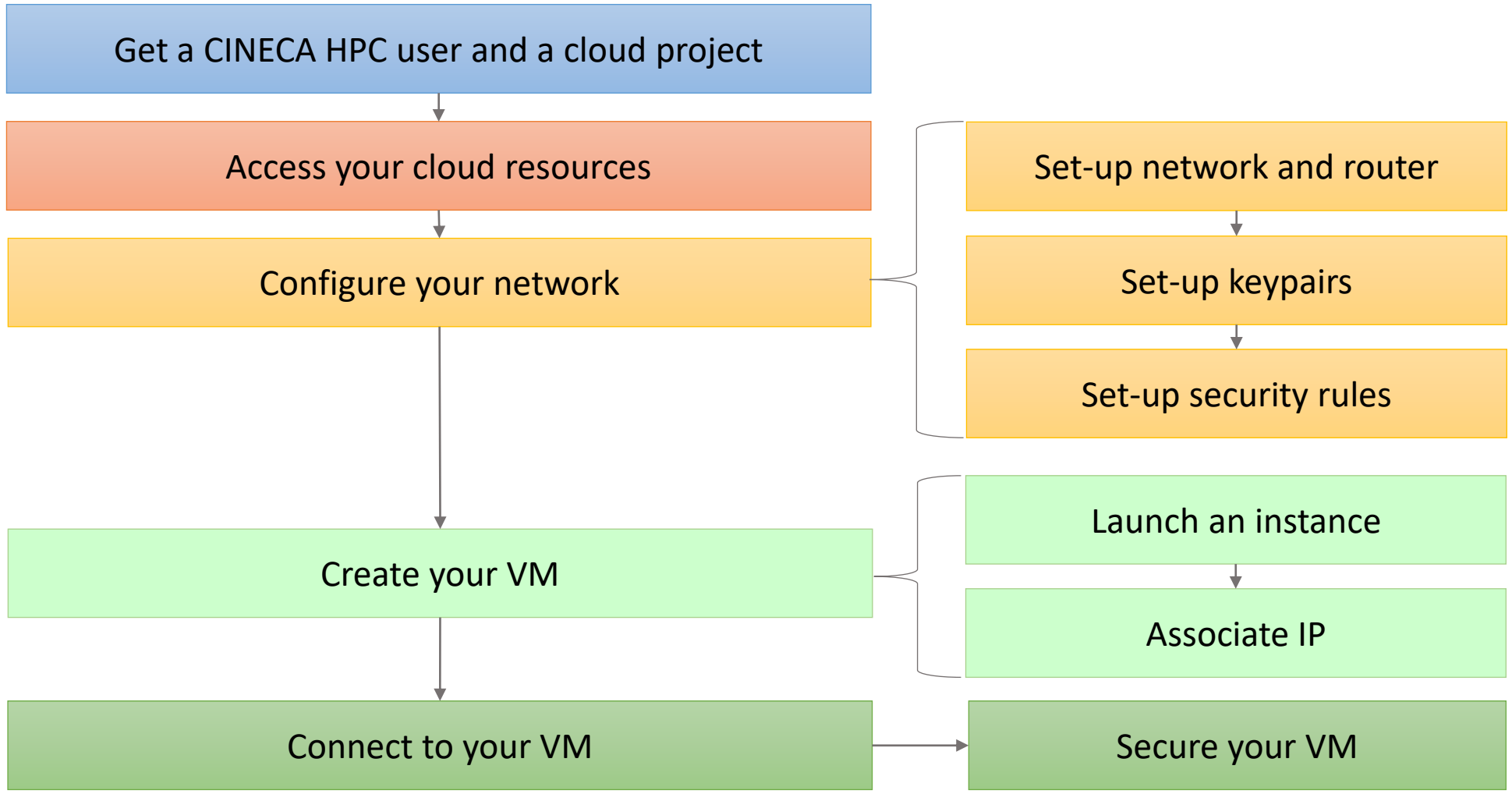
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Getting started workflow

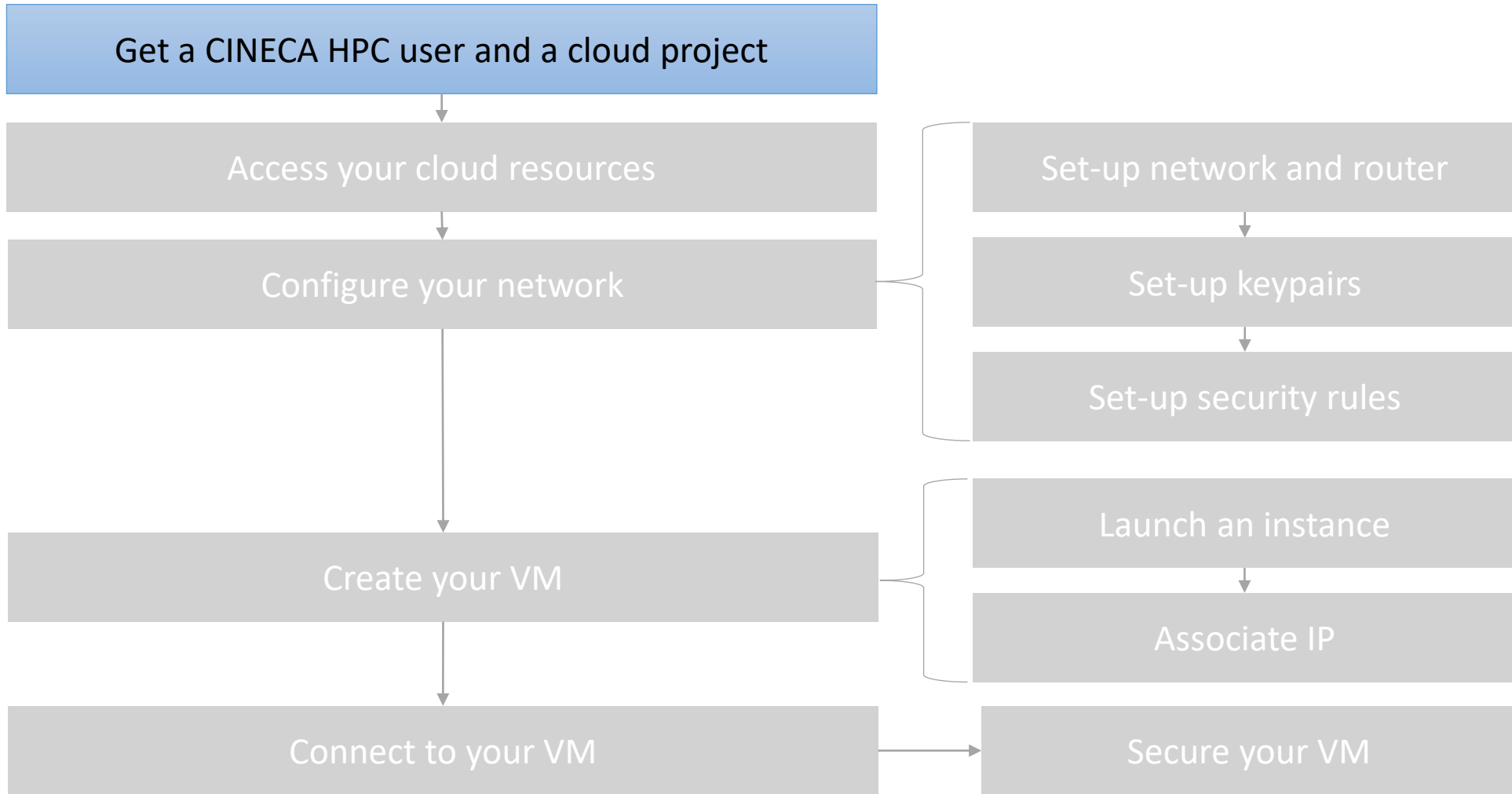
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Visit the [ADA Cloud User guide](#) for more information

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1 - Account and project

How to get a CINECA HPC account and cloud resources

CINECA

Get an HPC CINECA user
and a project

Access your cloud
resources

Configure your network

Create your VM

Connect to your VM

Get a HPC user

- Account = "personal" username for HPC systems in CINECA
- Register to CINECA [UserDB portal](#)
- Ask to be associated with a valid project, as "Collaborator" or as "Principal Investigator"
- **Important:** The access is possible only through two-factors (2FA) authentication

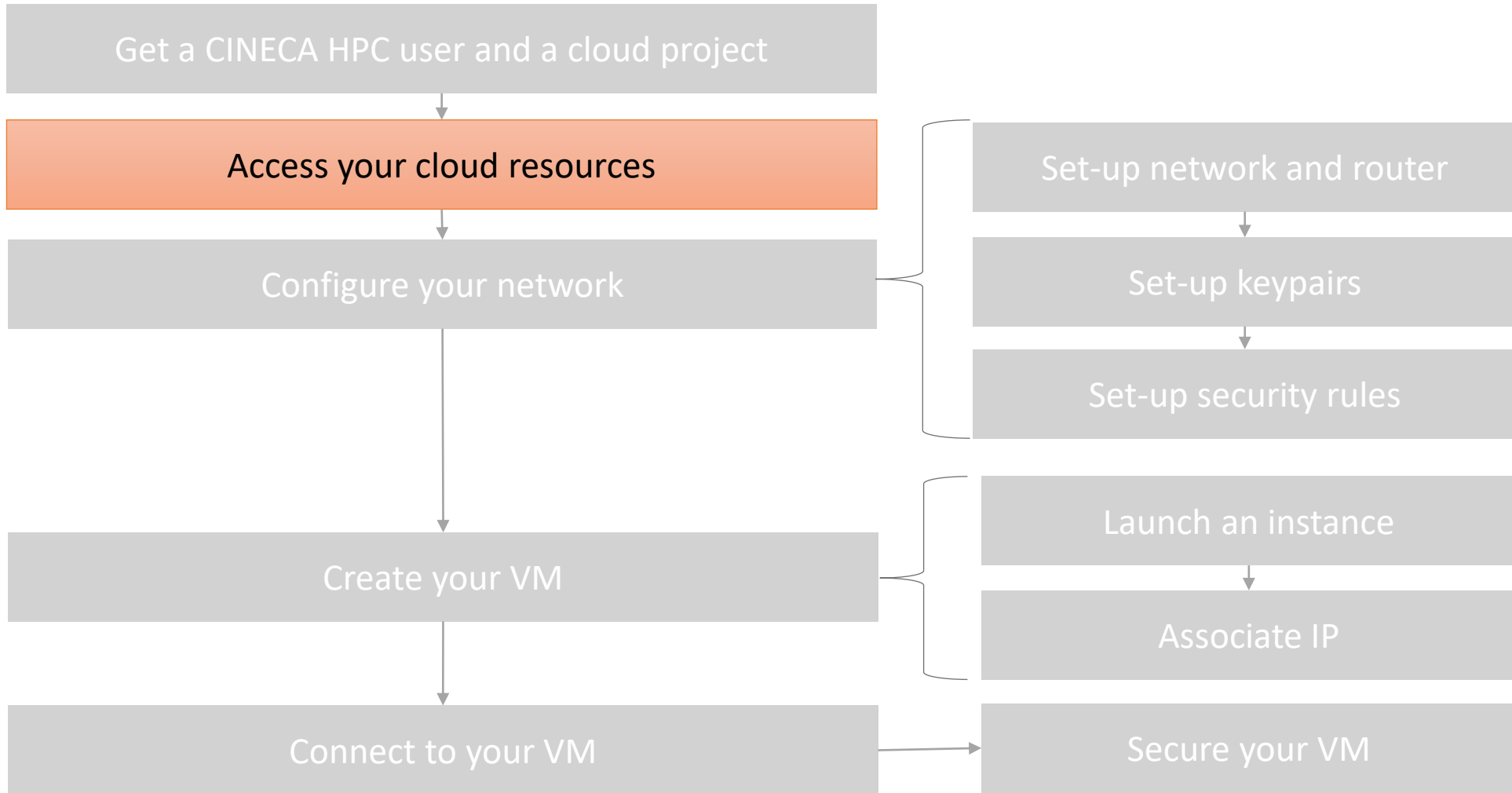
Get cloud resources

- [ISCRA Projects](#): Researchers affiliated with an Italian University or an Italian Research Agency
- [EuroHPC Projects](#): European researchers
- Italian research Institutions, General users and Industrial applications: contact the [HPC User support](#)

For more info: [Become a user](#) in User Guide

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2 - Access your cloud resources

ADA Cloud dashboard

- Go to <https://adacloud.hpc.cineca.it>
- Select "CINECA HPC" as Authentication method
- Insert your HPC-CINECA credentials to log in
- **NOTE:** the 2nd factor needs to be activated (see section [How to connect via 2FA](#))

CINECA

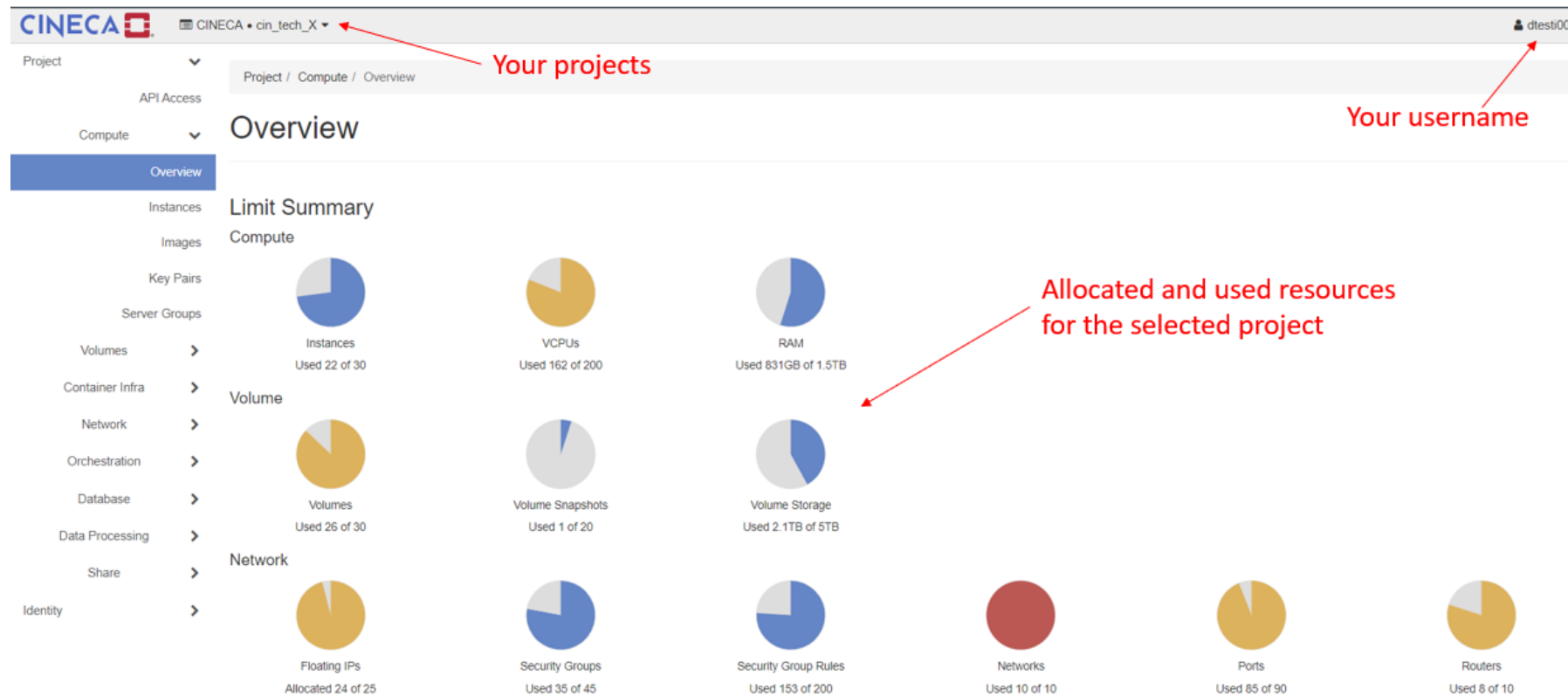
Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

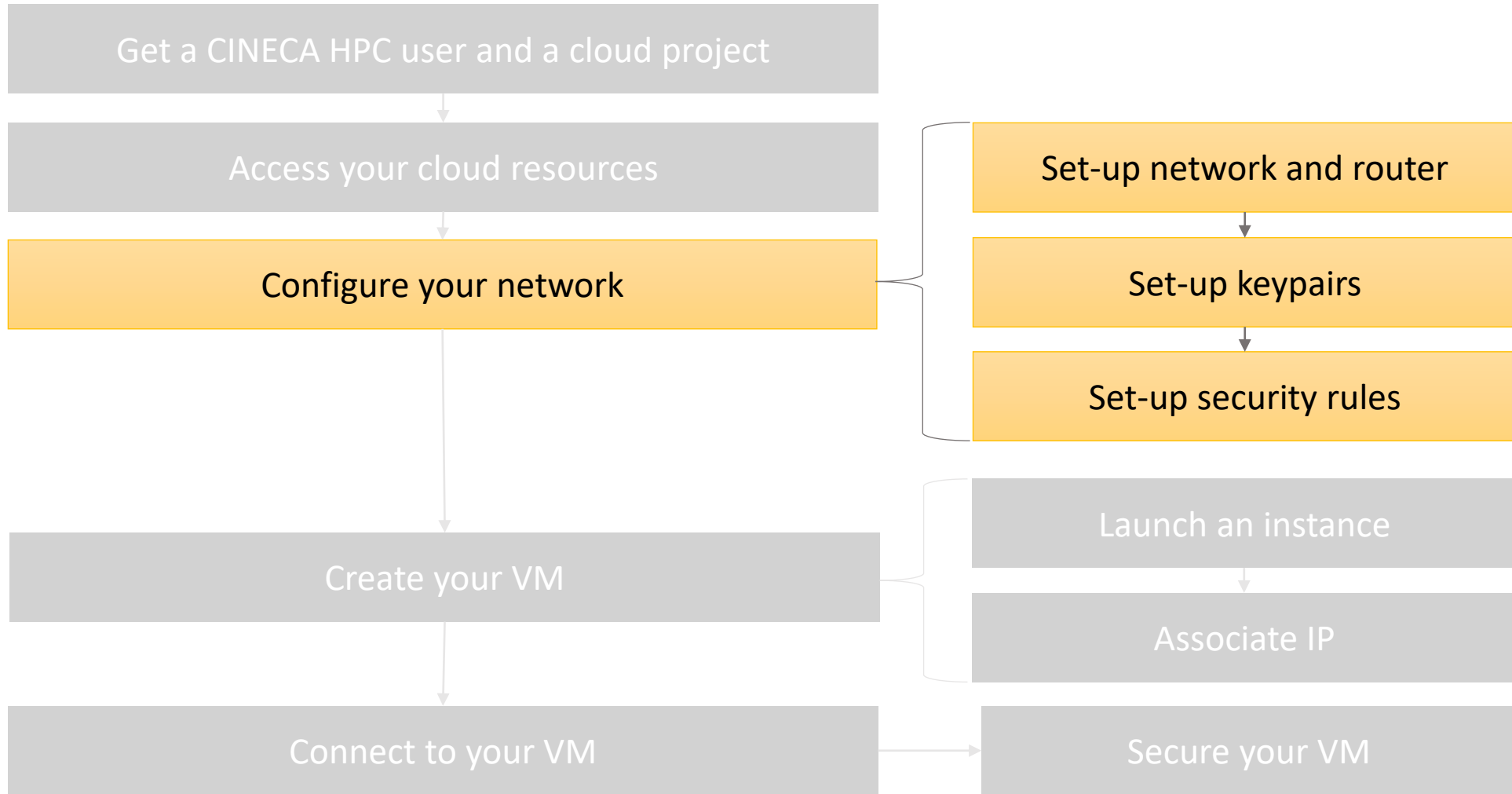
Create your VM

Connect to your VM



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3 - Configure your network

3.1 – Create Network and subnet for the project

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

The screenshot shows the left sidebar menu of the CINECA dashboard. The menu items are: Project (with a dropdown arrow), API Access, Compute (with a right arrow), Volumes (with a right arrow), Container Infra (with a right arrow), Network (with a dropdown arrow), Network Topology, Networks (highlighted in blue), and Routers.

Go to the «Networks» tab under «Network» in the left side menu

Project / Network / Networks

Networks

Click

The screenshot shows the management toolbar for the Networks page. It includes a search field with the text "Name =", a "Filter" button, a "+ Create Network" button (highlighted with a red box and arrow), and a "Delete Networks" button.

3 - Configure your network

3.1 – Create Network and subnet for the project

Follow the wizard steps

Create Network

Network Subnet Subnet Details

Network Name

my-network

Enable Admin State

Create Subnet

Availability Zone Hints

nova

MTU

Cancel « Back Next »

Insert a name for your network

Click

Create a new network. In addition, a subnet associated with the network can be created in the following steps of this wizard.

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Get an HPC CINECA user and a project

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3 - Configure your network

3.1 – Create Network and subnet for the project

Get an HPC CINECA user and a project

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Create your VM

Connect to your VM

Insert name of your subnet

Insert network IP address: 192.168.0.0/24

Insert gateway IP: 192.168.0.254

Click

Create Network ✕

Network **Subnet** Subnet Details

Subnet Name
my_subnet

Network Address ⓘ
192.168.0.0/24

IP Version
IPv4

Gateway IP ⓘ
192.168.0.254

Disable Gateway

Creates a subnet associated with the network. You need to enter a valid "Network Address" and "Gateway IP". If you did not enter the "Gateway IP", the first value of a network will be assigned by default. If you do not want gateway please check the "Disable Gateway" checkbox. Advanced configuration is available by clicking on the "Subnet Details" tab.

Cancel « Back **Next** »

3 - Configure your network

3.1 – Create Network and subnet for the project

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

Create Network ✕

Network Subnet **Subnet Details**


Enable DHCP Specify additional attributes for the subnet.

Allocation Pools ⓘ

DNS Name Servers ⓘ

Host Routes ⓘ

Cancel « Back **Create**



3 - Configure your network

3.2 – Create Router for the Project

Get an HPC CINECA user and a project


Access your cloud resources






Configure your network

Create your VM

Connect to your VM

Go to «Routers» tab under «Network» in the left side menu

CINECA  CINECA

- Project 
- API Access
- Compute 
- Volumes 
- Container Infra 
- Network 
- Network Topology
- Networks
- Routers**
- Security Groups
- Load Balancers
- Floating IPs

Project / Network / Routers

Routers

Router Name = Filter

Click

3 - Configure your network

3.2 – Create Router for the Project

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

Follow the wizard steps

Create Router

Router Name
my_router

Description:
Creates a router with specified parameters.

Enable Admin State

External Network
externalNetwork

Availability Zone Hints
nova

Cancel Create Router

Insert a name for your router

Select «externalNetwork» from the menu

Click

3 - Configure your network

3.2 – Create Router for the Project

Get an HPC CINECA user account and a project

Access your cloud resources

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Connect to your VM

From the list of Routers, click on your Router name

Project / Network / Routers

Routers

Router Name = my-router Filter + Create Router Delete Routers

Displaying 1 item

Name	Status	External Network	Admin State	Availability Zones	Actions
my-router	Active	externalNetwork	UP	nova	Clear Gateway

Go to the «Interfaces» tab

Project / Network / Routers / my_router

my_router

Clear Gateway

Overview Interfaces Static Routes

+ Add Interface

Name	Fixed IPs	Status	Type	Admin State	Actions
No items to display.					

Click

3 - Configure your network

3.2 – Create Router for the Project

In the wizard

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

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Connect to your VM

Add Interface

Subnet *

my-network: 192.168.0.0/24 (my-subnet)

IP Address (optional) ⓘ

Description:

You can connect a specified subnet to the router.

If you don't specify an IP address here, the gateway's IP address of the selected subnet will be used as the IP address of the newly created interface of the router. If the gateway's IP address is in use, you must use a different address which belongs to the selected subnet.

Cancel

Submit

Select the network created in the previous step

Click

3 - Configure your network

3.3 - Set-up keypairs

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

The screenshot shows the CINECA web interface. At the top left is the CINECA logo. Below it is a navigation menu with the following items: Project (with a dropdown arrow), API Access, Compute (with a dropdown arrow), Overview, Instances, Images, Key Pairs, and Server Groups. A red arrow points from a text box to the 'Key Pairs' menu item.

Go to the «Key Pairs» tab under «Compute» in the left side menu

Project / Compute / Key Pairs

Key Pairs

Click

The screenshot shows the toolbar for the Key Pairs page. It includes a search bar with the placeholder text 'Click here for filters or full text search.', a close button (x), a '+ Create Key Pair' button, an 'Import Public Key' button, and a 'Delete Key Pairs' button. A red arrow points from the 'Click' text box to the '+ Create Key Pair' button.

3 - Configure your network

3.3 - Set-up keypairs

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

In the wizard

The screenshot shows the 'Create Key Pair' wizard interface. It features a title bar with 'Create Key Pair' and a close button. Below the title bar, there are two main input fields: 'Key Pair Name' and 'Key Type'. The 'Key Pair Name' field contains the text 'my_keypair' and has a green checkmark on the right. The 'Key Type' field is a dropdown menu with 'SSH Key' selected. At the bottom left, there is a 'Cancel' button, and at the bottom right, there is a blue '+ Create Key Pair' button. Red annotations include: a box labeled 'Insert a name for the new Key Pair' with an arrow pointing to the 'Key Pair Name' field; a box labeled 'Select «SSH Key»' with an arrow pointing to the 'Key Type' dropdown; and a box labeled 'Click' with an arrow pointing to the '+ Create Key Pair' button.

- The **public** key stays on the Openstack dashboard
- The **private** key is AUTOMATICALLY downloaded locally
- **IMPORTANT NOTES:**
 - The download of the private key will be done only when the keypair is created. If you lose the private key, you will have to create a new keypair.
 - If you are a Linux user, modify the permission of the private key (downloaded file) to read-write for only the user (`chmod 600 <file name>`)

3 - Configure your network

3.4 – Set-up security rules

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

The screenshot shows the left sidebar menu of the CINECA dashboard. The menu items are: Project (with a dropdown arrow), API Access, Compute (with a right arrow), Volumes (with a right arrow), Container Infra (with a right arrow), Network (with a dropdown arrow), Network Topology, Networks, Routers, Security Groups (highlighted in blue), Load Balancers, and Floating IPs.

- A **security rule** defines which traffic is allowed to instances assigned to the security group.
- A **security group** is a group of security rules that can be assigned to an instance.

Go to the «Security groups» tab under «Network» in the left side menu

The screenshot shows the 'Security Groups' page in the CINECA dashboard. The breadcrumb trail at the top reads 'Project / Network / Security Groups'. The main heading is 'Security Groups'. At the bottom right, there is a 'Filter' input field, a search icon, a '+ Create Security Group' button, and a 'Delete Security Groups' button. A red box labeled 'Click' has an arrow pointing to the '+ Create Security Group' button.

3 - Configure your network

3.4 – Set-up security rules

In the wizard

Get an HPC CINECA user and a project

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Connect to your VM

The screenshot shows a 'Create Security Group' wizard window. It has a title bar with a close button (X). The main content area is divided into two columns. The left column contains a 'Name' field with a red asterisk and a 'Description' text area. The 'Name' field contains the text 'my_security'. A red arrow points from a red-bordered box containing the text 'Insert a name for the security group' to the 'Name' field. The right column contains a 'Description:' label and a paragraph of text: 'Security groups are sets of IP filter rules that are applied to network interfaces of a VM. After the security group is created, you can add rules to the security group.' At the bottom right of the window is a blue button labeled 'Create Security Group'. A red arrow points from a red-bordered box containing the text 'Click' to this button.

3 - Configure your network

3.4 – Set-up security rules

Get an HPC CINECA user and a project

Access your cloud resources

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Create your VM

Connect to your VM

For the security group just created, select «Manage Rules» on the right side

By default, only security rules to get out of your VM are created

Security rules to access your VM needs to be added

Shared Actions

False Manage Rules

Project / Network / Security Groups / Manage Security Group Rul...

Manage Security Group Rules: my_security (064c2420-cde9-4e1d-bd02-2eb025b1274d)

Displaying 2 items

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote IP Prefix	Remote Security Group	Description	Actions
<input type="checkbox"/>	Egress	IPv4	Any	Any	0.0.0.0/0	-	-	Delete Rule
<input type="checkbox"/>	Egress	IPv6	Any	Any	::/0	-	-	Delete Rule

Displaying 2 items

+ Add Rule Delete Rules

3 - Configure your network

3.4 – Set-up security rules

In the wizard

Select «SSH» from the list

Add Rule

Rule*
SSH

Description ⓘ

Remote* ⓘ
CIDR

CIDR* ⓘ
0.0.0.0/0

Description:
Rules define which traffic is allowed to instances assigned to the security group. A security group rule consists of three main parts:
Rule: You can specify the desired rule template or use custom rules, the options are Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.
Open Port/Port Range: For TCP and UDP rules you may choose to open either a single port or a range of ports. Selecting the "Port Range" option will provide you with space to provide both the starting and ending ports for the range. For ICMP rules you instead specify an ICMP type and code in the spaces provided.
Remote: You must specify the source of the traffic to be allowed via this rule. You may do so either in the form of an IP address block (CIDR) or via a source group (Security Group). Selecting a security group as the source will allow any other instance in that security group access to any other instance via this rule.

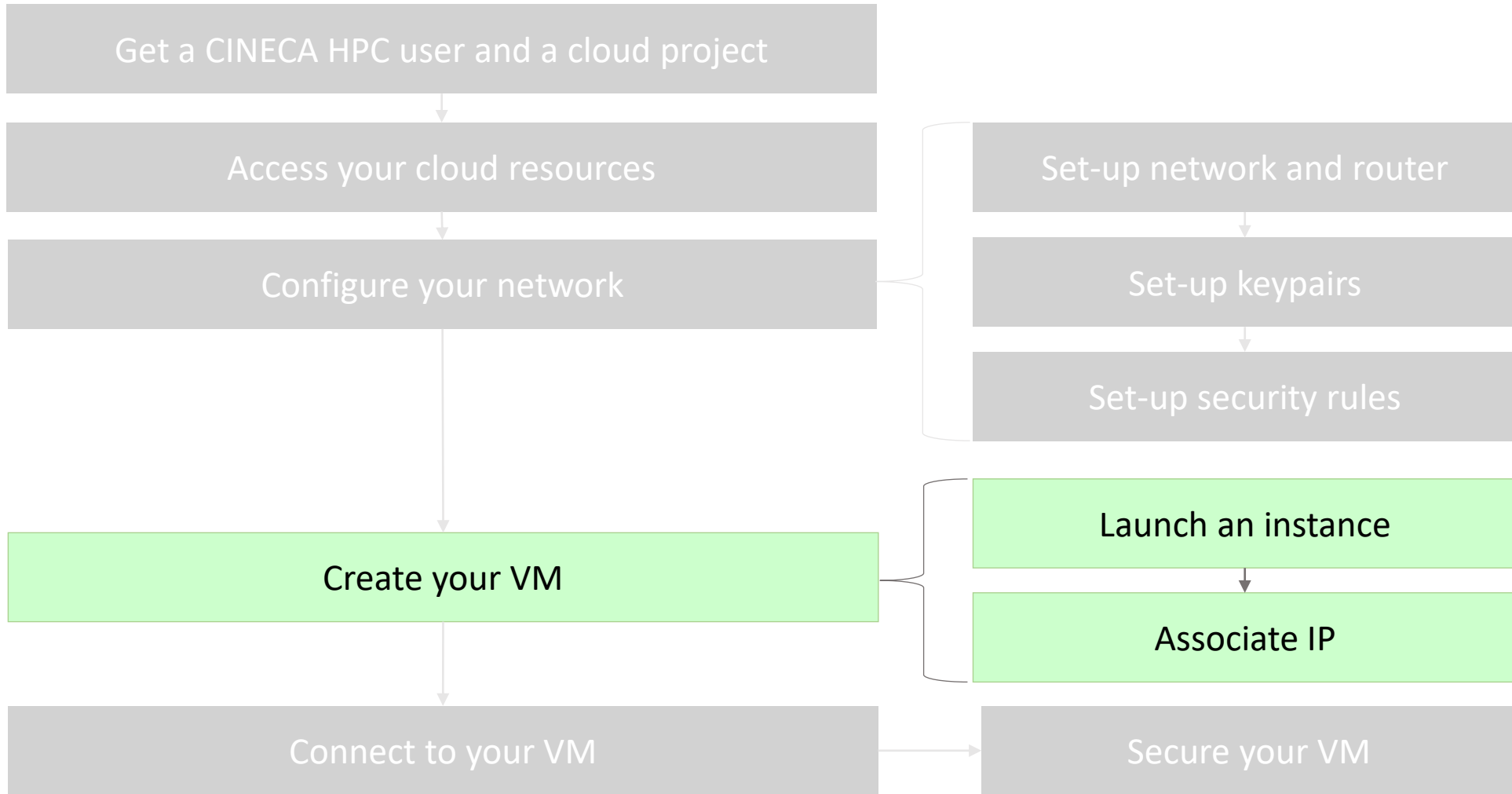
Cancel Add

By default, access is enabled for all IPs

Click

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4 - Create your VM

4.1 - Launch an instance

CINECA

Get an HPC CINECA user
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The screenshot shows the CINECA web interface. The top left corner features the CINECA logo and a user profile icon labeled 'CINECA'. Below this is a sidebar menu with the following items: 'Project' (with a dropdown arrow), 'API Access', 'Compute' (with a dropdown arrow), 'Overview', 'Instances' (highlighted with a red arrow), 'Images', 'Key Pairs', and 'Server Groups'.

Go to the «Instances» tab under «Compute» in the left side menu

Click «Launch instance»

The screenshot shows the 'Instances' page in the CINECA web interface. The breadcrumb trail at the top reads 'Project / Compute / Instances'. The main heading is 'Instances'. At the bottom of the page, there is a control bar with the following elements: 'Instance ID =', an input field, a 'Filter' button, a 'Launch Instance' button (highlighted with a red arrow), a 'Delete Instances' button, and a 'More Actions' dropdown menu.

4 - Create your VM

4.1 - Launch an instance

Follow the wizard steps

Get an HPC CINECA user and a project

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Connect to your VM

Launch Instance

Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.

Project Name
cin_tech_X

Instance Name *
my_first_VM

Description

Availability Zone
nova

Count *
1

Total Instances (30 Max)
77%

- 22 Current Usage
- 1 Added
- 7 Remaining

< Back Next > Launch Instance

Cancel

Insert a name for your VM

Click

4 - Create your VM

4.1 - Launch an instance

Get an HPC CINECA user and a project

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Connect to your VM

Launch Instance

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source: Image

Create New Volume: Yes No

Allocated: Displaying 0 items

Available (11):

Name	Updated	Size	Format	Visibility
CentOS-7-x86_64-GenericCloud-2009	7/28/21 9:41 AM	847.81 MB	QCOW2	Public
CentOS-8-GenericCloud-8.4.2105-20210603.0.x86_64	7/28/21 9:49 AM	1.22 GB	QCOW2	Public
CentOS-Stream-GenericCloud-8-20220913	11/21/22 5:22 PM	10.00 GB	RAW	Public
Debian12 (Bookworm)	8/23/23 8:41 AM	2.00 GB	RAW	Shared
manila-service-image	8/2/21 11:05 AM	555.13 MB	QCOW2	Public
Rocky Linux 8.9	12/19/23 1:13 PM	1.84 GB	QCOW2	Public
Rocky Linux 9.3	12/19/23 12:25 PM	1.01 GB	QCOW2	Public
Ubuntu Server 18.04 LTS (Bionic Beaver)	7/28/21 10:02 AM	353.81 MB	QCOW2	Public
Ubuntu Server 20.04 LTS (Focal Fossa)	7/28/21 10:01 AM	535.19 MB	QCOW2	Public
Ubuntu Server 21.04 (Hirsute Hippo)	7/28/21 10:01 AM	553.06 MB	QCOW2	Public
Ubuntu Server 22.04 LTS (Jammy Jellyfish)	9/13/22 8:56 AM	2.20 GB	RAW	Public

Buttons: Cancel, Back, Next, Launch Instance

Select an operative system of your VM

Launch Instance

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source: Image

Create New Volume: Yes No

Allocated: Displaying 1 item

Name	Updated	Size	Format	Visibility
Ubuntu Server 18.04 LTS (Bionic Beaver)	7/28/21 10:02 AM	353.81 MB	QCOW2	Public

Available (10):

Name	Updated	Size	Format	Visibility
CentOS-7-x86_64-GenericCloud-2009	7/28/21 9:41 AM	847.81 MB	QCOW2	Public
CentOS-8-GenericCloud-8.4.2105-20210603.0.x86_64	7/28/21 9:49 AM	1.22 GB	QCOW2	Public
CentOS-Stream-GenericCloud-8-20220913	11/21/22 5:22 PM	10.00 GB	RAW	Public
Debian12 (Bookworm)	8/23/23 8:41 AM	2.00 GB	RAW	Shared
manila-service-image	8/2/21 11:05 AM	555.13 MB	QCOW2	Public
Rocky Linux 8.9	12/19/23 1:13 PM	1.84 GB	QCOW2	Public
Rocky Linux 9.3	12/19/23 12:25 PM	1.01 GB	QCOW2	Public
Ubuntu Server 20.04 LTS (Focal Fossa)	7/28/21 10:01 AM	535.19 MB	QCOW2	Public
Ubuntu Server 21.04 (Hirsute Hippo)	7/28/21 10:01 AM	553.06 MB	QCOW2	Public
Ubuntu Server 22.04 LTS (Jammy Jellyfish)	9/13/22 8:56 AM	2.20 GB	RAW	Public

Buttons: Cancel, Back, Next, Launch Instance

Click

4 - Create your VM

4.1 - Launch an instance

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

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Connect to your VM

Select the flavour of your VM

Launch Instance

Details

Source

Flavour *

Networks *

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Flavours manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Displaying 0 items

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
Select a flavour from the available flavours below.						

Displaying 0 items

Available 8

Select one

Click here for filters or full text search.

Displaying 8 items

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
> fl.ada.xxs	1	7.5 GB	10 GB	10 GB	0 GB	Yes
> fl.ada.manila	1	7.5 GB	10 GB	10 GB	0 GB	Yes
> fl.ada.xs	2	15 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.s	4	30 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.m	8	60 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.l	16	120 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.gpu.xxl	48	168 GB	30 GB	30 GB	0 GB	No
> fl.ada.gpu.full	96	336 GB	30 GB	30 GB	0 GB	No

Displaying 8 items

Cancel Back Next Launch Instance

Launch Instance

Details

Source

Flavour *

Networks *

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Flavours manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Displaying 1 item

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
> fl.ada.xxs	1	7.5 GB	10 GB	10 GB	0 GB	Yes

Displaying 1 item

Available 7

Select one

Click here for filters or full text search.

Displaying 7 items

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
> fl.ada.manila	1	7.5 GB	10 GB	10 GB	0 GB	Yes
> fl.ada.xs	2	15 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.s	4	30 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.m	8	60 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.l	16	120 GB	30 GB	30 GB	0 GB	Yes
> fl.ada.gpu.xxl	48	168 GB	30 GB	30 GB	0 GB	No
> fl.ada.gpu.full	96	336 GB	30 GB	30 GB	0 GB	No

Displaying 7 items

Cancel Back Next Launch Instance

Click

4 - Create your VM

4.1 - Launch an instance

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

Select the network created in the previous «configure your network» step and click «Next»

Launch Instance

Details

Source

Flavour

Networks

Network Ports

Security Groups

Key Pair

Configuration

Networks provide communication channels for instances in the cloud. You can select ports instead of networks or a mix of both.

▼ Allocated 1

Displaying 1 item

Network	Subnets Associated	Shared	Admin State	Status
> my-network	my-subnet	No	Up	Active

Displaying 1 item

▼ Available 8

Select one or more

Click here for filters or full text search.

4 - Create your VM

4.1 - Launch an instance

Get an HPC CINECA user and a project

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Launch Instance

Details

Source

Flavour

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

A key pair allows you to SSH into your newly created instance. You may select an existing key pair, import a key pair, or generate a new key pair.

+ Create Key Pair Import Key Pair

Allocated

Displaying 0 items

Name	Type	Fingerprint
Select a key pair from the available key pairs below.		

Displaying 0 items

> Available Select one

Expand to see available items

Set admin password

Cancel < Back Next > Launch Instance

Select the Key Pair created in the previous «configure your network» step

Click

4 - Create your VM

4.1 - Launch an instance

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

Select the Security Group created in the previous «configure your network» step and click «Launch Instance»

Launch Instance

Details

Source

Flavour

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Select the security groups to launch the instance in.

▼ Allocated 2

Displaying 2 items

Name	Description
> default	Default security group
> my-secgroup	my-secgroup

Displaying 2 items

▼ Available 33

Select one or more

Q Click here for filters or full text search.

Displaying 13 items | « Prev

Name	Description
> http	

4 - Create your VM

4.2 - Associate a floating IP to your VM

Get an HPC CINECA user and a project

Access your cloud resources

Configure your network

Create your VM

Connect to your VM

Go to the «Floating IPs» tab under «Network» in the left side menu

The screenshot shows the left sidebar menu of the CINECA dashboard. The menu items are: Project, API Access, Compute, Volumes, Container Infra, Network, Network Topology, Networks, Routers, Security Groups, Load Balancers, and Floating IPs. The 'Floating IPs' item is highlighted with a red arrow pointing to it from the instruction box.

Project / Network / Floating IPs

Floating IPs

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

Displaying 24 items

Click

4 - Create your VM

4.2 - Associate a floating IP to your VM

In the wizard

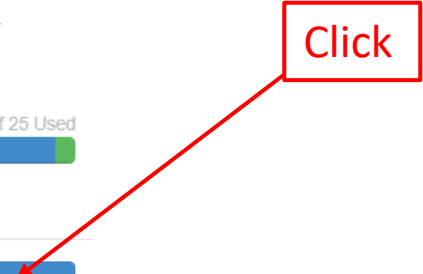
Allocate Floating IP ✕

Pool *

Description

Description:
Allocate a floating IP from a given floating IP pool.

Project Quotas
Floating IP 24 of 25 Used



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4 - Create your VM

4.2 - Associate a floating IP to your VM

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Project / Network / Floating IPs

Floating IPs

Floating IP Address = 131.175.204.217 Filter % Allocate IP To Project (Quota exceeded) \$ Release Floating IPs

Displaying 1 item

IP Address	Description	Mapped Fixed IP Address	Pool	Status	Actions
131.175.204.217		-	externalNetwork	Down	Associate

Displaying 1 item

Click

In the wizard

Manage Floating IP Associations

IP Address*
Select an IP address +

Port to be associated*
Select a port

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

By default, the IP, you have just allocated, will be selected

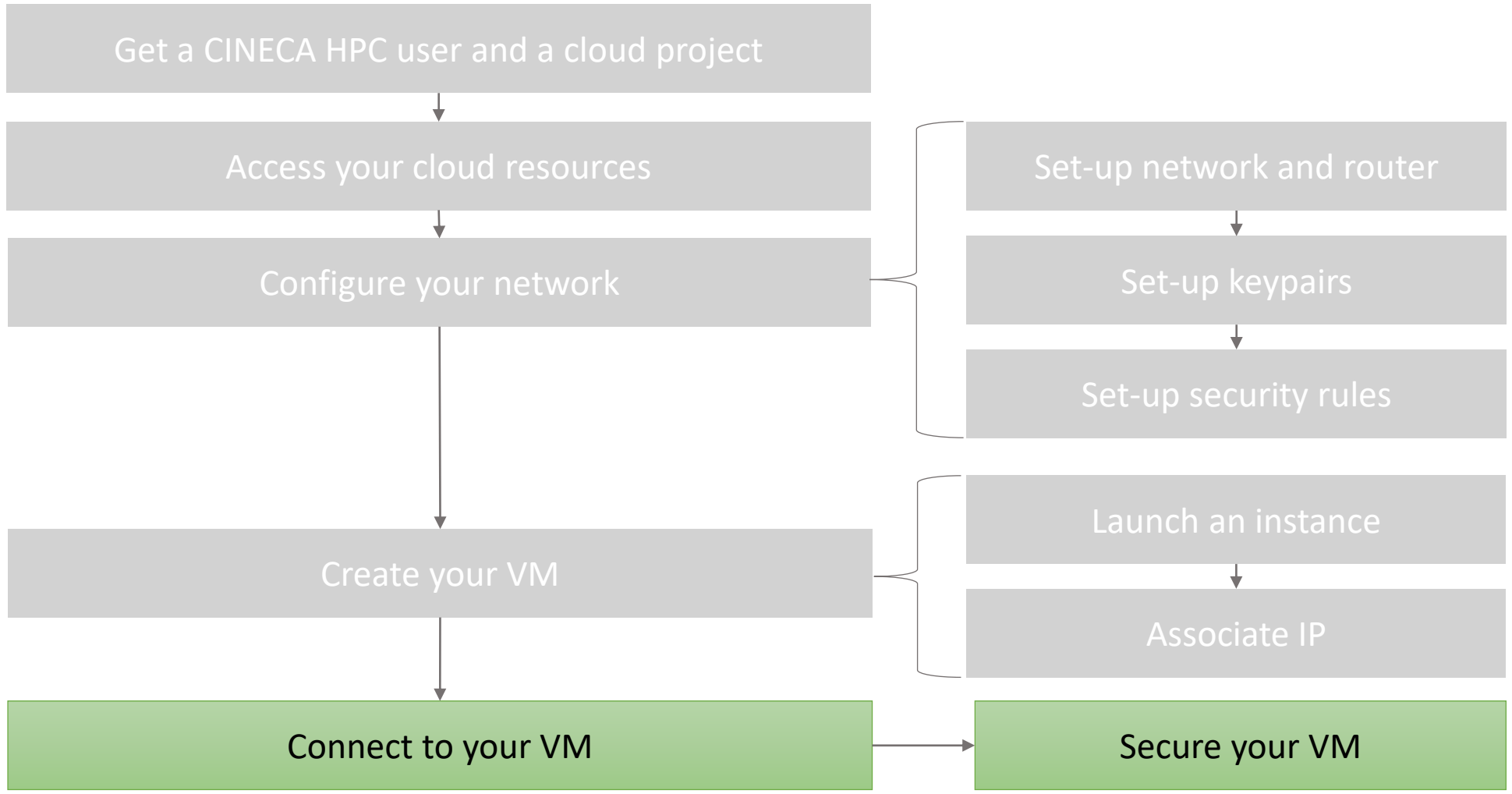
From the menu, select your VM

Click

Cancel Associate

Getting started workflow

STEP BY STEP user GUIDE



5 - Connect to your VM

5.1 – Log in to your VM

- Your VM is now ready to be used
- Login using the default user (of the OS you have chosen for your VM) and your private key (see step 3.3)
- Suppose you have used the default ubuntu cloud image, you can login as:

```
$ ssh -i my_keypair.pem ubuntu@<floating IP address>
```

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5 - Connect to your VM

5.2 – Secure your VM

At the first log in, remember to:

- Update the OS and relative packages

Follow the basic security guidelines:

- activate automatic updates
- only install software from reputable sources
- disable unneeded services
- use encrypted and secure communication protocols to avoid man in the middle attacks
- keep logs of your applications
- monitor accounts created on your system and do not enable password login, use SSH keys instead

More information at: [Security guidelines](#)

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For any issue or question please contact the HPC User support at superc@cineca.it