

Name: Md Touhidul Islam	Server technology part 2	Topic : Virtual machine setup to CSC Pouta Cloud.
Date: 04/302021		

1. First, we create an account to link: <https://my.csc.fi>. And do login with this user name and password.

CSC Login

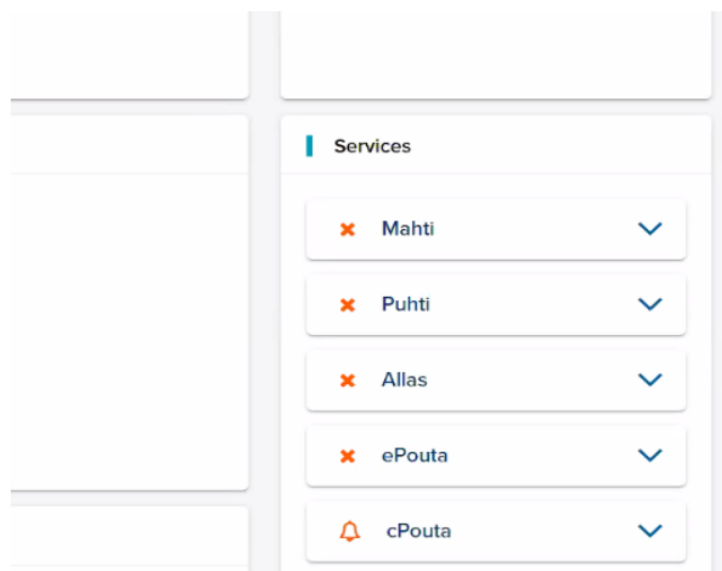
Login to CSC Customer Authentication

Login

[Forgot your password?](#)

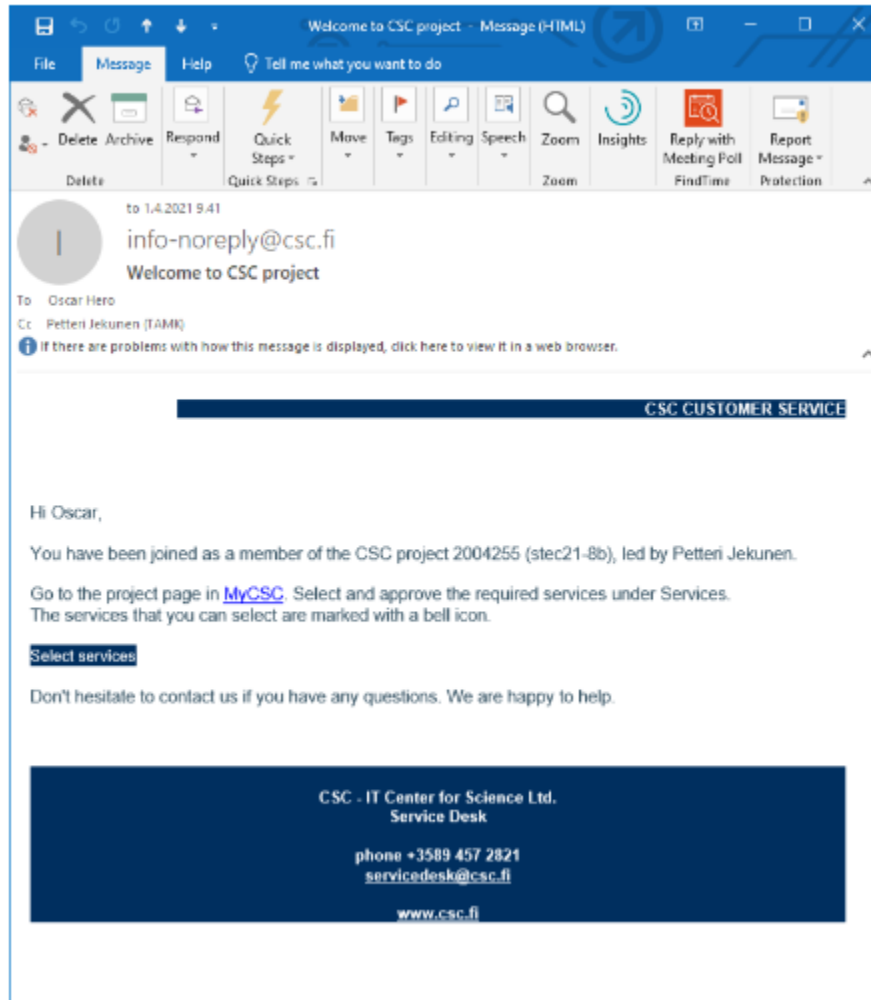
2. After doing this account teacher added us to the project and give access to cPouta.

In the My CSC page open the project that you are in and click the cPouta (with bell icon) and accept the end user terms.



3. When project manager gives us access to the project, we get a mail. See below.


You might have received mail about this as well:



4. Accessing the Pouta Dashboard, we have to login link: <https://pouta.csc.fi> using CSC account .

Login - OpenStack Dashboard

pouta.csc.fi/dashboard/auth/login?next=/dashboard/



Log in

Authenticate using

CSC account

If you are not sure which authentication method to use, contact your administrator.

User Name

Your CSC username

Password

.....

Connect

5. Launching a virtual machine in the cPouta web interface. We import public key for linux.

pouta.csc.fi/dashboard/project/key_pairs

Apps YouTube Maps News Gmail Chrome Web Store... 1 Notifications Facebook Dashboard Uusi välilehti CCNA1 v7 - ITN - M... TUNI Moodle | Tam... localhost:5000/users

project_2004259 islammdt

Project / Compute / Key Pairs

API Access

Compute

Overview

Instances

Images

Key Pairs

Volumes

Network

Orchestration

Object Store

Identity

Click here for filters.

+ Create Key Pair

Import Public Key

Delete Key Pairs

Name	Fingerprint
islammdt	94 83 d3 3a 9b 98 52 61 6a 96 63 64 f7 df b6 0e

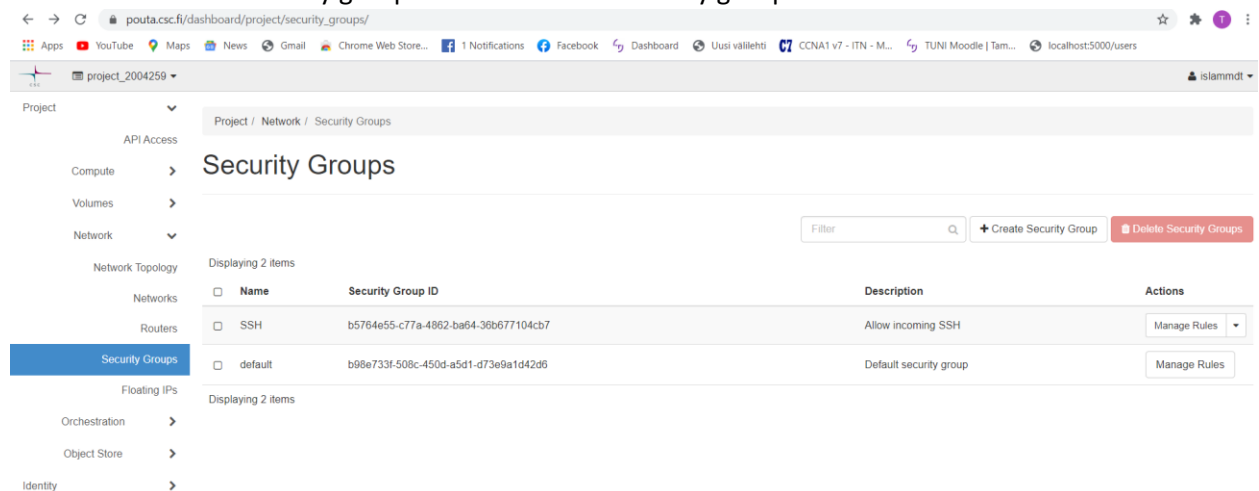
Delete Key Pair

Public key file: id_rsa.pub.

Public key is: ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQGC3F/XzggCpuir0tRji1zw06CzkW7eMZDy9NwbYytO7k8Q
Nc68STxFFET0TnKewM4fojNHRonKEjikxKxYHpocQTII2/skpgbshqFPq1ILRTWbkl1jgGXN/5U4SE9P
OC2oDUv2ekC38ii62uS65GUFpIdRAwRo9FuB9RJ6jWx3PgXj0ljWKVZMmMAsOPiq+PERdwhd7UR
JVKaovCsUMzq92PNyZsFHEed8Q0E9wuuHYcED6xMi9/KawNzMSu4pe5T5J2ZQjnzG3ao41Mw6p
226WbZCPwrD99fts5iaWAB4hTGs1FGAj9AQ6GKOSfTriDPQwB+faQWiZTXkVcgJp6+BKnOFFzVTO
nfknIG0xmX4UllwYME0M+Lzplns08tKBN/N1t9b+HXlmWhEy2WN4PsOxJKsEIOZN+rtLL6pEoJrd
N3sk2IHdTR+Op6/fwfMS7sajhi0TduNz5NR8RxSEu24oZ5rtvUCCD9CmQe/3jxU5QRvuT3Butjij4nB
h0/OPJE= robin12@Touhidul
```

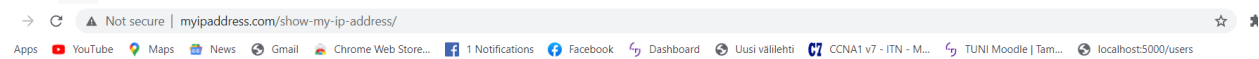
8. Now must add security group. We have added security group that's name is SSH.



The screenshot shows the Pouta Cloud dashboard for project 'project_2004259'. The 'Security Groups' page is active, displaying a table with two security groups:

Name	Security Group ID	Description	Actions
SSH	b5764e55-c77a-4862-ba64-36b677104cb7	Allow incoming SSH	Manage Rules
default	b98e733f-508c-450d-a5d1-d73e9a1d42d6	Default security group	Manage Rules

9. Then go to manage rules. Click add rule. For this section we need IP address that we can find using a link: <http://www.myipaddress.com> . In this security group add id and port 22.



The screenshot shows the myIPaddress.com website. It displays the user's IP address as 84.249.6.91.



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6. Lunched virtual machine. We have to add information below.

Launch Instance

Details *

Access & Security *

Networking *

Post-Creation

Advanced Options

Availability Zone

nova

Instance Name *

My-virtual-ubuntu-server

Flavor *

mini

Instance Count *

1

Instance Boot Source *

Boot from image

Image Name

Ubuntu-14.04 (356.3 MB)

Specify the details for launching an instance.

The chart below shows the resources used by this project in relation to the project's quotas.

Flavor Details

Name	mini
VCPUs	1
Root Disk	10 GB
Ephemeral Disk	110 GB
Total Disk	120 GB
RAM	3,500 MB

Project Limits

Number of Instances

3 of 8 Used

Number of VCPUs

6 of 8 Used

Total RAM

19,884 of 33,000 MB Used

Cancel

Launch

And added instances.

← → ↻ pouta.csc.fi/dashboard/project/instances/#/launch_instance_setinstancedetailsaction ☆ ⚙️ T ⋮

project_2004259 islammdt

Project / Compute / Instances

Instances

Instance ID = Filter [Launch Instance](#) [Delete Instances](#) More Actions ▾

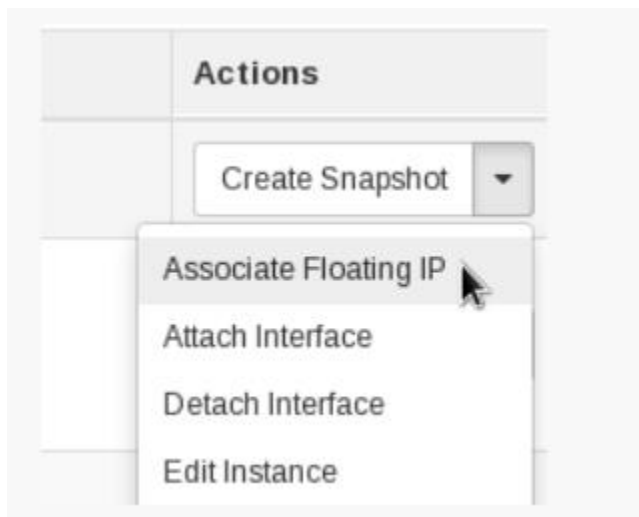
Displaying 1 item

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Time since created	Actions
<input type="checkbox"/>	virtual-ubuntu-server	-	192.168.1.28 Floating IPs: 193.166.24.254	standard.tiny	islammdt	Active	nova	None	Running	2 weeks, 2 days	Create Snapshot ▾

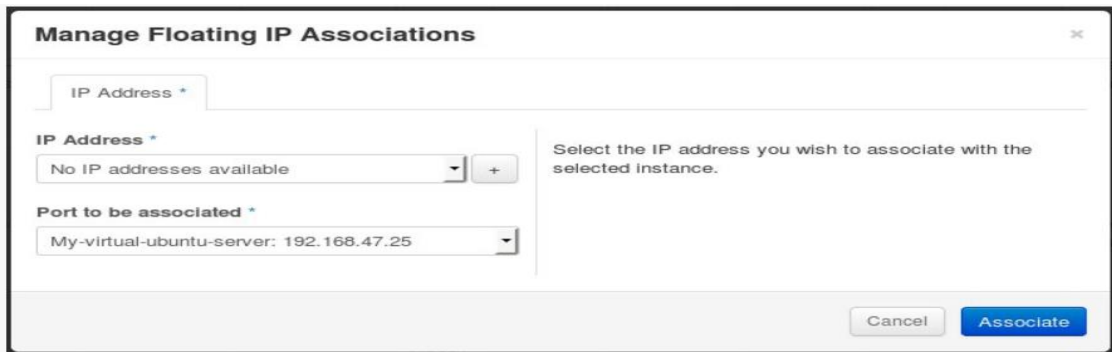
Displaying 1 item

Project
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Associate floating IP:



Manage floating ip association:



The image shows a 'Manage Floating IP Associations' dialog box. It has a title bar with a close button. Below the title bar, there is a tab labeled 'IP Address *'. The main content area is divided into two sections. The left section has a label 'IP Address *' and a dropdown menu showing 'No IP addresses available' with a '+' button next to it. Below this is a label 'Port to be associated *' and a dropdown menu showing 'My-virtual-ubuntu-server: 192.168.47.25'. The right section contains the text 'Select the IP address you wish to associate with the selected instance.' At the bottom right, there are two buttons: 'Cancel' and 'Associate'.

7.

A. Allocated IP To Project and created floating Ips.

B. After doing all and start virtual machine, we can check that using nslookup 193.166.24.254.

```
robin12@Touhidul:~$ nslookup 193.166.24.254
254.24.166.193.in-addr.arpa      name = vm1011.kaj.pouta.csc.fi.
254.24.166.193.in-addr.arpa      name = cloudbof-pad.csc.fi.

Authoritative answers can be found from:
```

10. Network diagram.

