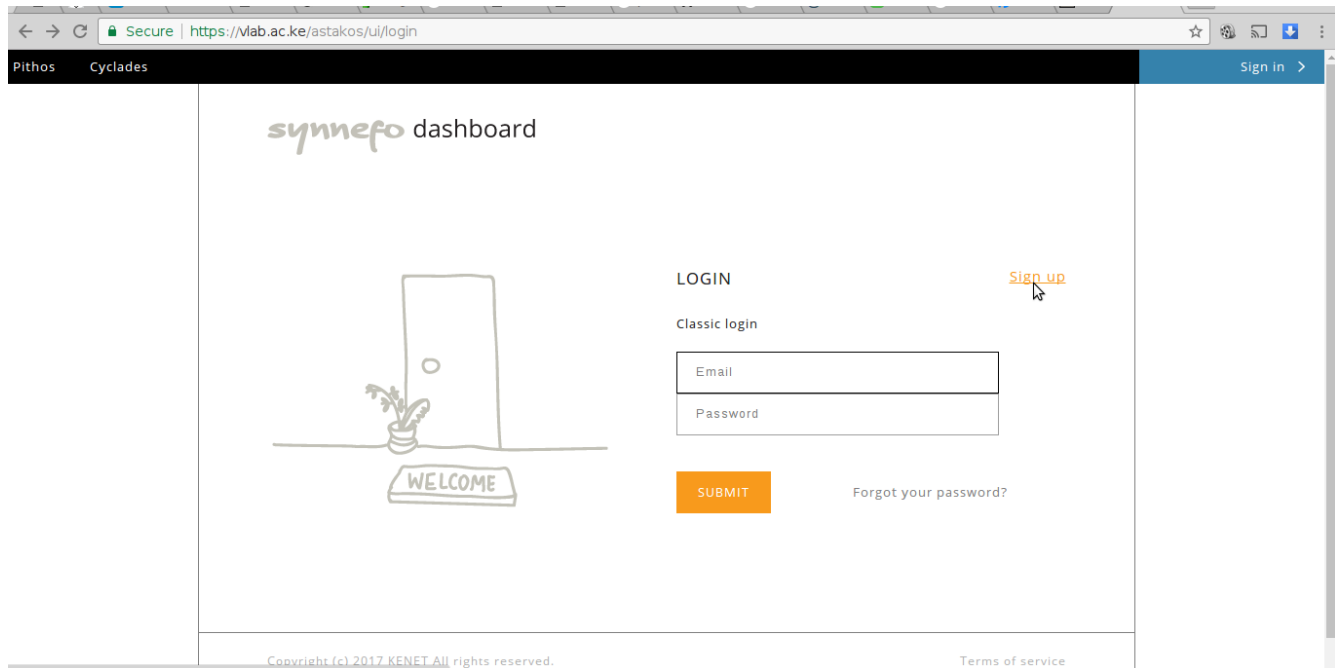




KENET VIRTUAL COMPUTING LAB

User Registration and Virtual Machines Management Guide



Accessing the Lab

Go to URL: <https://vlab.ac.ke>

- If you are a new user click on sign up.
- If you have an existing account proceed to login.
- Enter the registration details.

NB: *It is recommended that you use your organisation email e.g. user@kenet.or.ke*

- The login does not currently enforce a password policy so ensure you create a strong password.

Secure | <https://vlab.ac.ke/astakos/ui/signup>

synnefo dashboard

SIGN UP [Sign in](#)

user@kenet.or.ke

User

Kenet

.....

.....

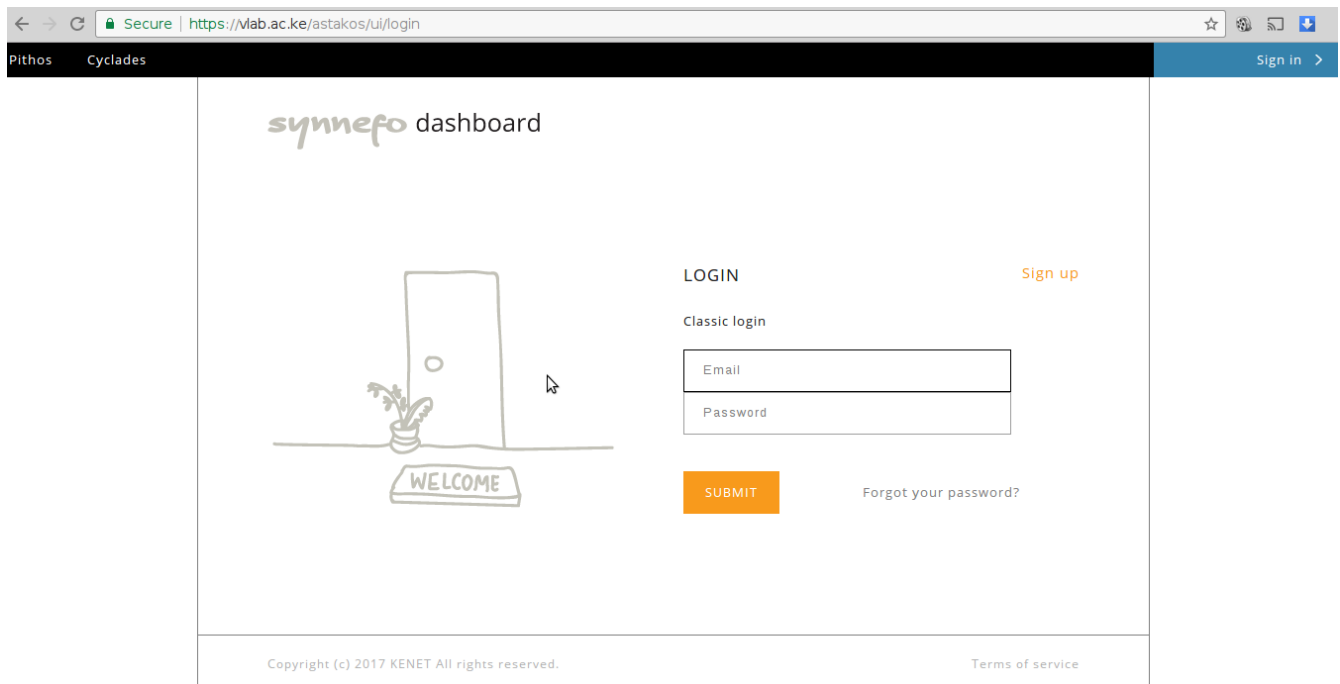
TUCKER MEXICO

TUCKER MEXICO

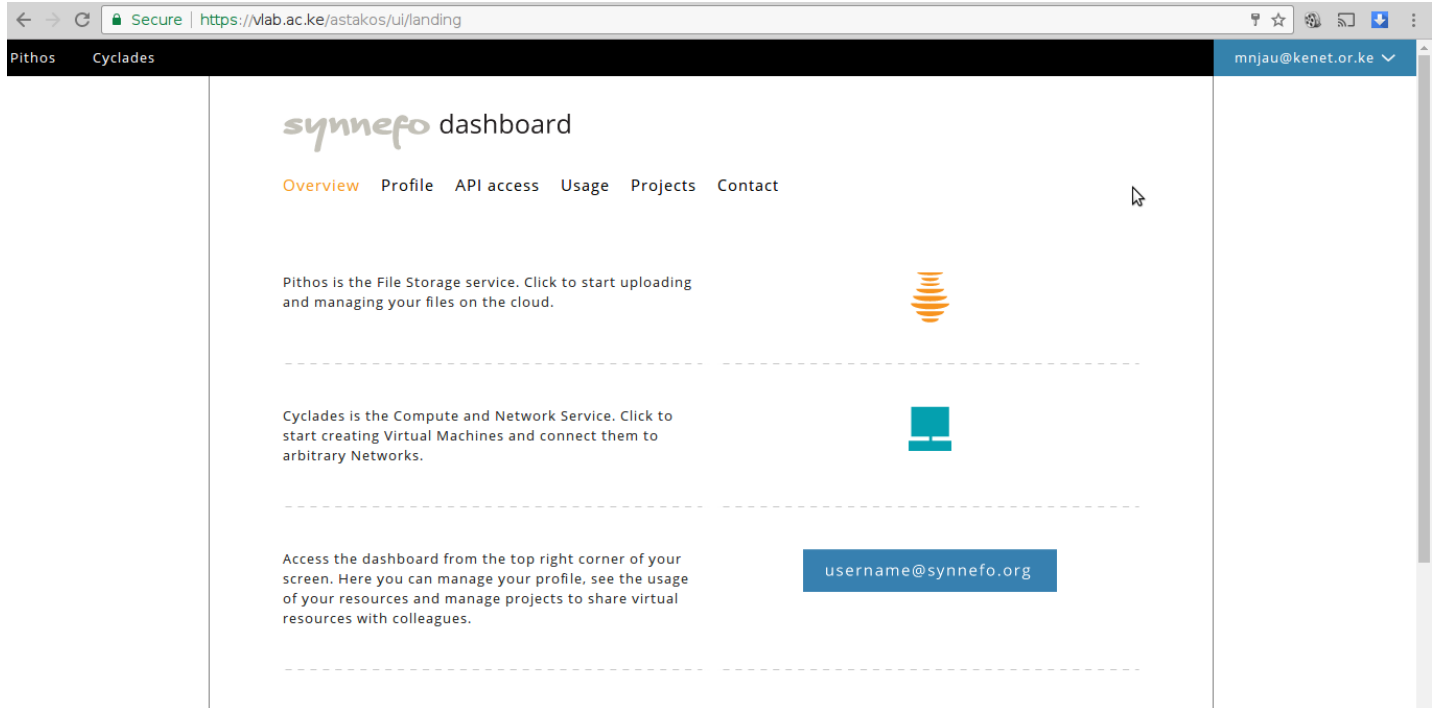
SUBMIT

4

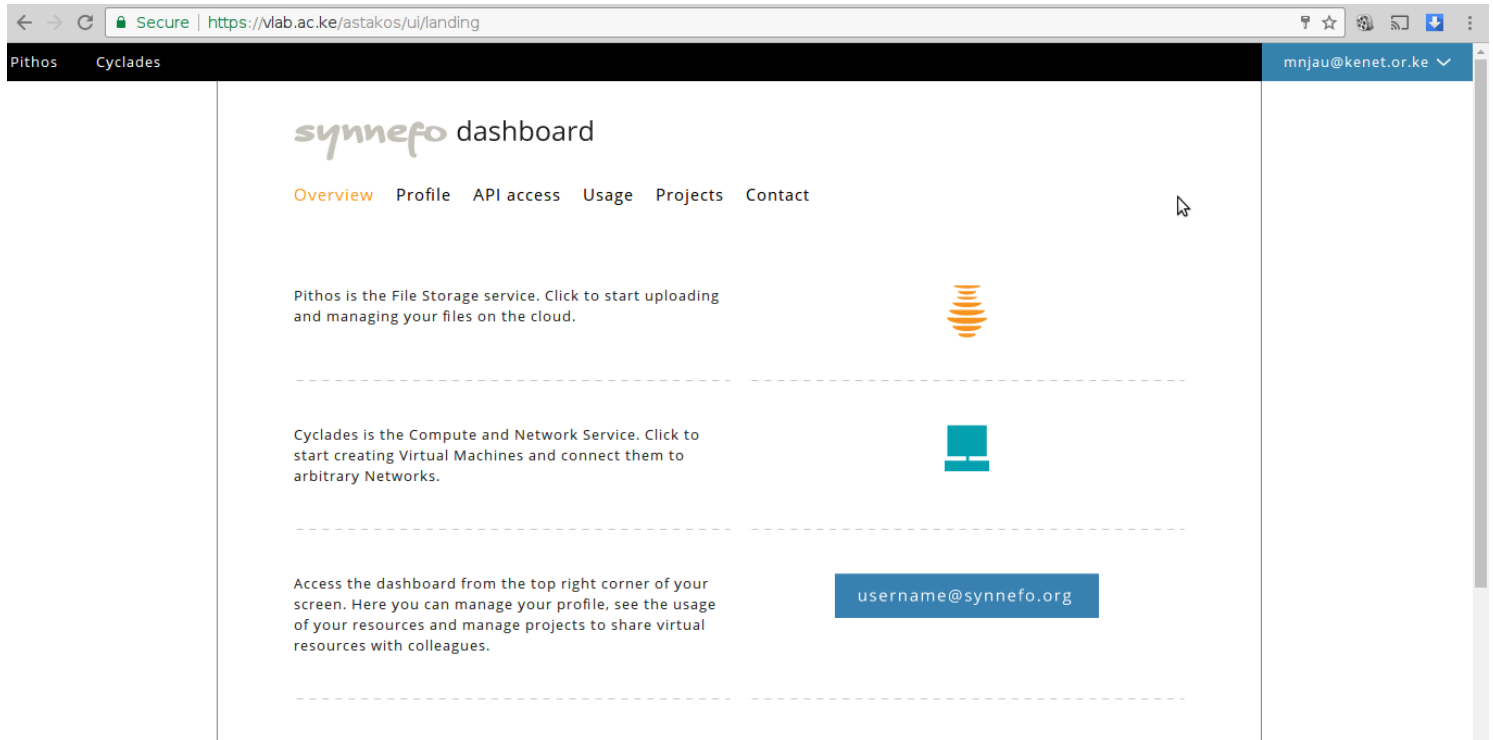
- After successful registration you will receive a verification email in your inbox.
- Click on the verification URL to verify the registration request.
- An admin will receive your request and proceed to activate your account.
- After successful activation you will receive an alert on the same.
- Proceed to Login:
- Go to url: <https://vlab.ac.ke>
- Enter your login details and click on submit to Login:



➤ You should now access the dashboard.

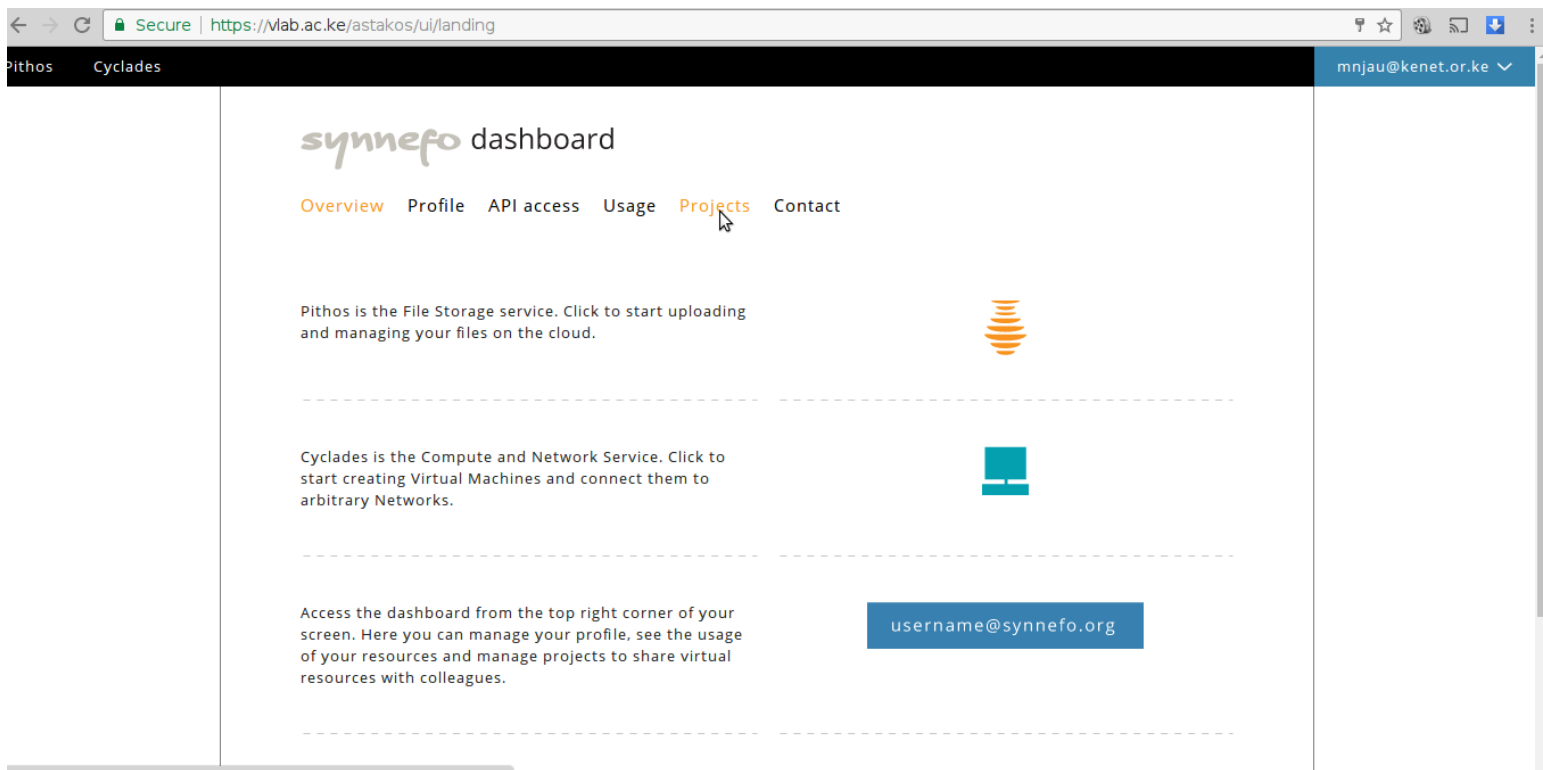


After successful login, the links to access the services are visible at the top cloud bar.



Joining a project

- By default, access to other services is disabled by the implementation of zero quotas hence all users should join a project to gain access to all services and computing resources.
- On the dashboard click on Projects:




- Click on ***Join a project*** to Join a project:

Secure | <https://vlab.ac.ke/astakos/ui/projects>


PROJECTS

Vlab gives you the opportunity to run your own projects on virtual infrastructure or to become a member of other Vlab users' projects. Simple and fast!



Create a new Project. Name it, describe its purpose, choose virtual resources to be granted to members, and submit. Your application will be reviewed, and if accepted, you and your colleagues are ready to deploy!

[create a project >](#)



Request to be a member of an existing Project and instantly gain access to the resources it has to offer you. Search for public Projects, or submit a join request to a private Project, if you think its administrators will accept you. In short: try to join now.

[join a project >](#)

- Click on the appropriate project to join.
- In this case isoc-course.kenet.or.ke project for the ISOC online course.

Vlab Dashboard | Project: X

Secure | <https://vlab.ac.ke/astakos/ui/projects>

Create a new Project. Name it, describe its purpose, choose virtual resources to be granted to members, and submit. Your application will be reviewed, and if accepted, you and your colleagues are ready to deploy!

[create a project >](#)

Request to be a member of an existing Project and instantly gain access to the resources it has to offer you. Search for public Projects, or submit a join request to a private Project, if you think its administrators will accept you. In short: try to join now.

[join a project >](#)

MY PROJECTS

Name ▾

Status

Application

Expiration

Members

Action

Search:

isoc-course.kenet.or.ke	Active	16/08/2017	31/10/2017	0	join
System project	Accepted member	18/05/2017	18/05/2117	1	

Showing 1 to 2 of 2 entries Pagination 10 [< Previous](#) [Next >](#)

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Powered by Synnefo v0.18.1

<https://vlab.ac.ke/astakos/ui/projects/a78bcf0e-87ad-4b6b-96d3-3f35129897d>

- Click on *join* to join the project:

The screenshot shows a web browser window with the URL <https://vlab.ac.ke/astakos/ui/projects/a78bcf0e-87ad-4b6b-96d3-3f335129897d>. The page title is "Vlab Dashboard | Overview". The navigation bar includes "Overview", "Profile", "API access", "Usage", "Projects", and "Contact". The "Projects" tab is active.

The main content area shows the project details for "isoc-course.kenet.or.ke". The status is "PROJECT ACTIVE". There is a "MODIFY - JOIN" link. Below this is a section titled "PROJECT DETAILS" with the following information:

Name	isoc-course.kenet.or.ke
Homepage url	https://isoc-inforum.afrinic.net/course
Description	ISOC-Online Course: Intro to Linux/DNS Course
Creation date	16/08/2017
End Date	31/10/2017
Owner	Me

Below the project details is a section titled "RESOURCES" with a table showing resource usage:

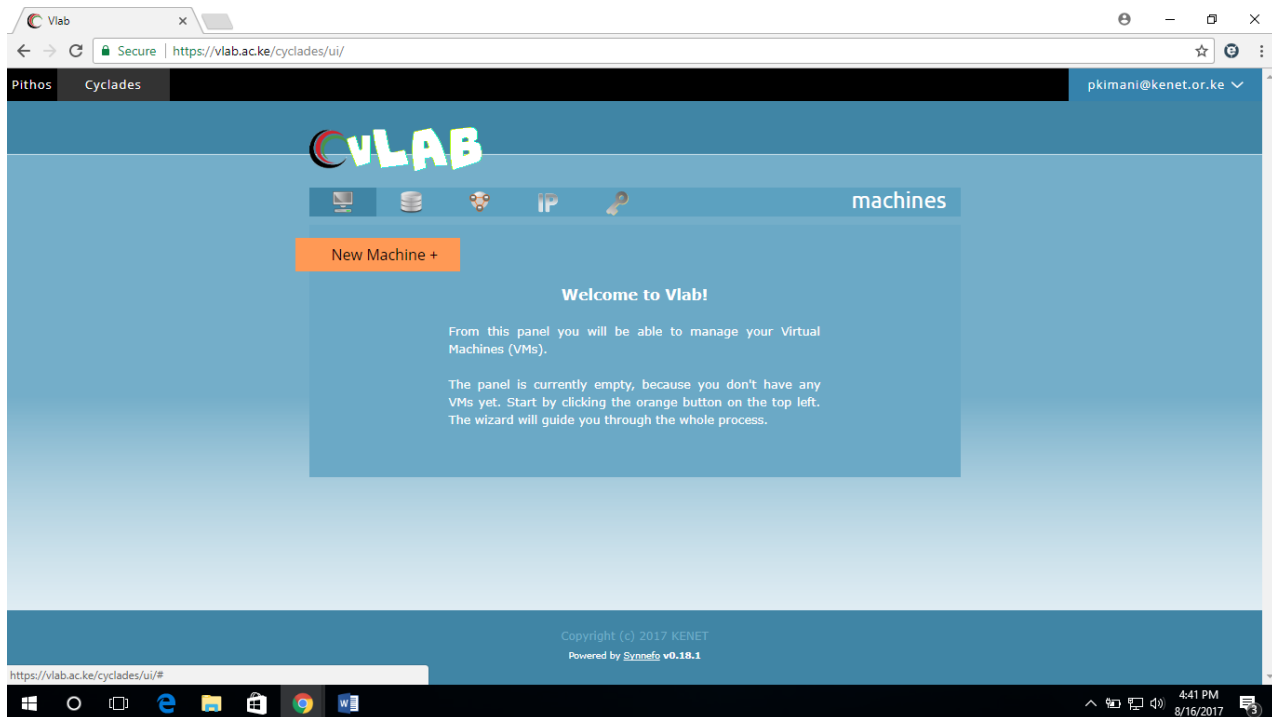
	Max per member	Total	Usage
File Storage Space	0 bytes	0 bytes	--
Hard Disk Storage	10.0 GB	500.0 GB	0% (0 bytes)
CPUs	1	50	0% (0)
RAM	1.00 GB	50.0 GB	0% (0 bytes)
VMs	1	50	0% (0)
Private Networks	0	0	--
Public (Floating) IPs	1	50	0% (0)
pending project applications	Unlimited	Unlimited	0% (0)

At the bottom of the main content area is a section titled "MEMBERS".

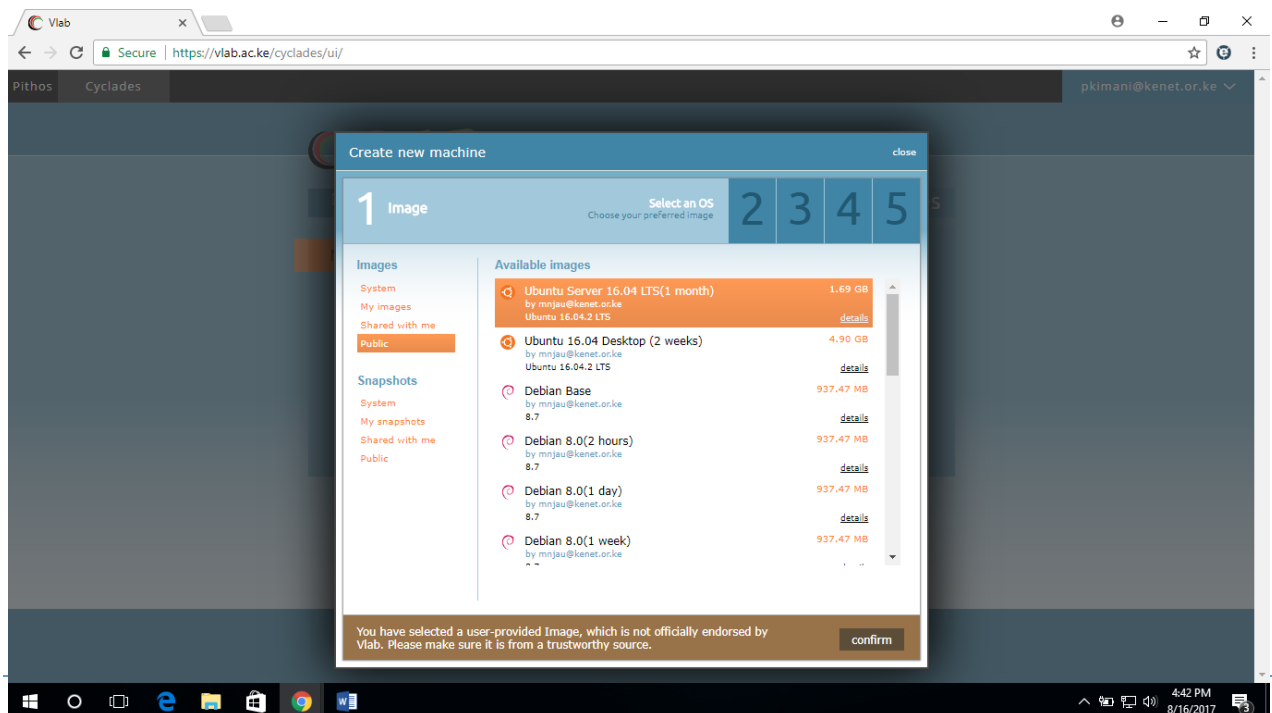
- Kindly note that approval to join a project is not automatic; the project owner or administrator will receive the request and proceed with approval.
- Once approved proceed to create a virtual machine.
- Quotas are enforced on the project level hence a user can only use specific number of computing resources as defined on the project, once they are exhausted the user cannot create any more virtual machines and will be forced to delete the existing virtual machine to reclaim resources.

Virtual Machines Provisioning Engine (Cyclades)

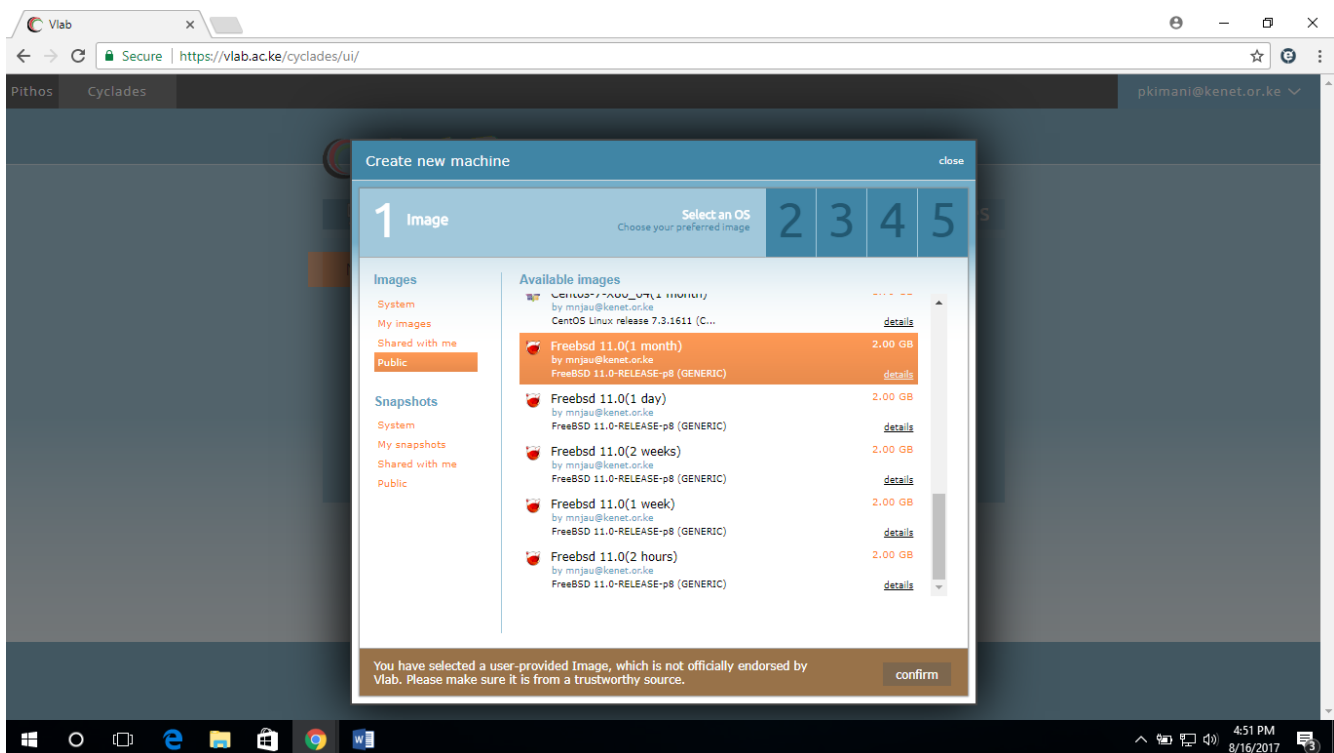
- Click on the Cyclades tab on the top cloud bar to access the Cyclades interface:



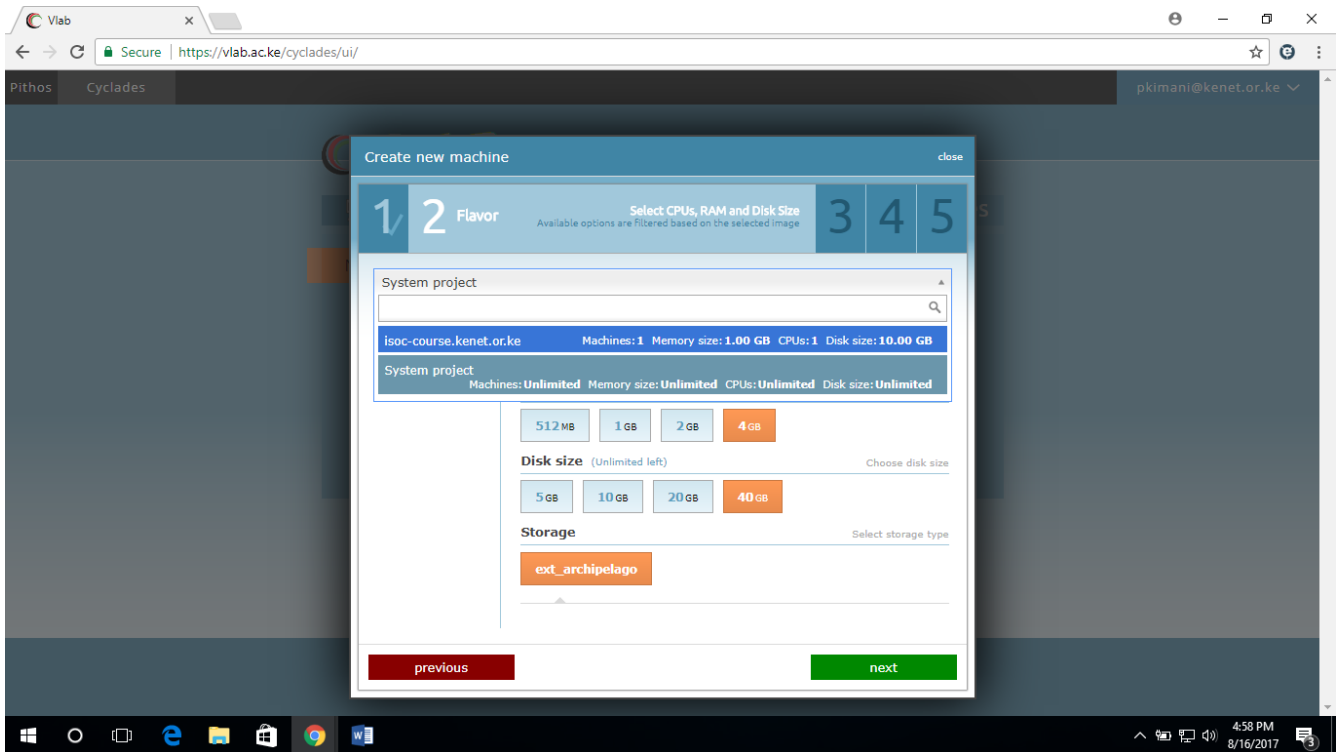
- Click on New Machine to create a new VM:
- Under Images select Public:



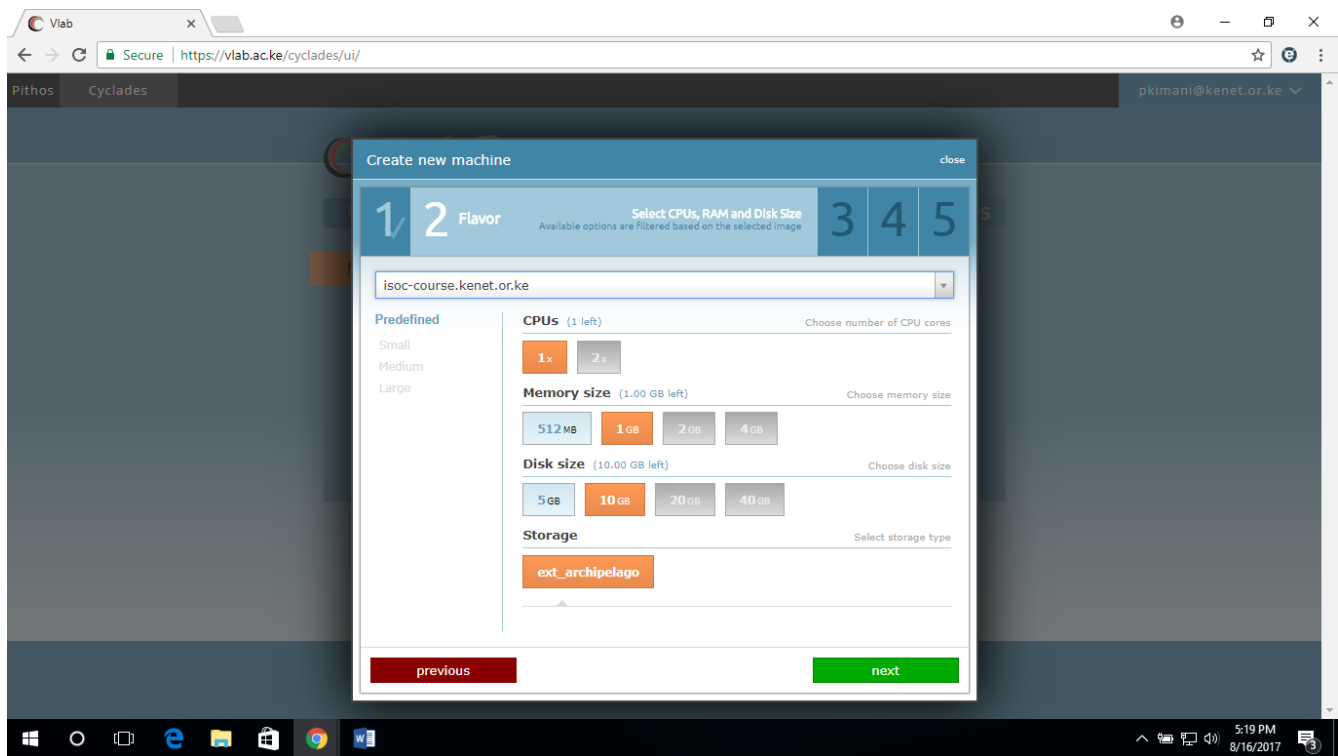
- You should see a list of all available images with their description and a time tag e.g. 2 hours, 2 weeks, 1 month and 1.5 months.
- The description fits the time a particular VM is supposed to run from creation time, the lab is automated to auto delete the VM after the appended time has elapsed.
- **As the ISOC course runs for a maximum of one month, however select the FreeBSD ISO with a time span of a month and a half (1.5).**
- Select the image of your choice (in this case FreeBSD 11.0) and click confirm then next to continue:



- On the create machine window click on the drop down and ensure you select *isoc-course.kenet.or.ke* project:

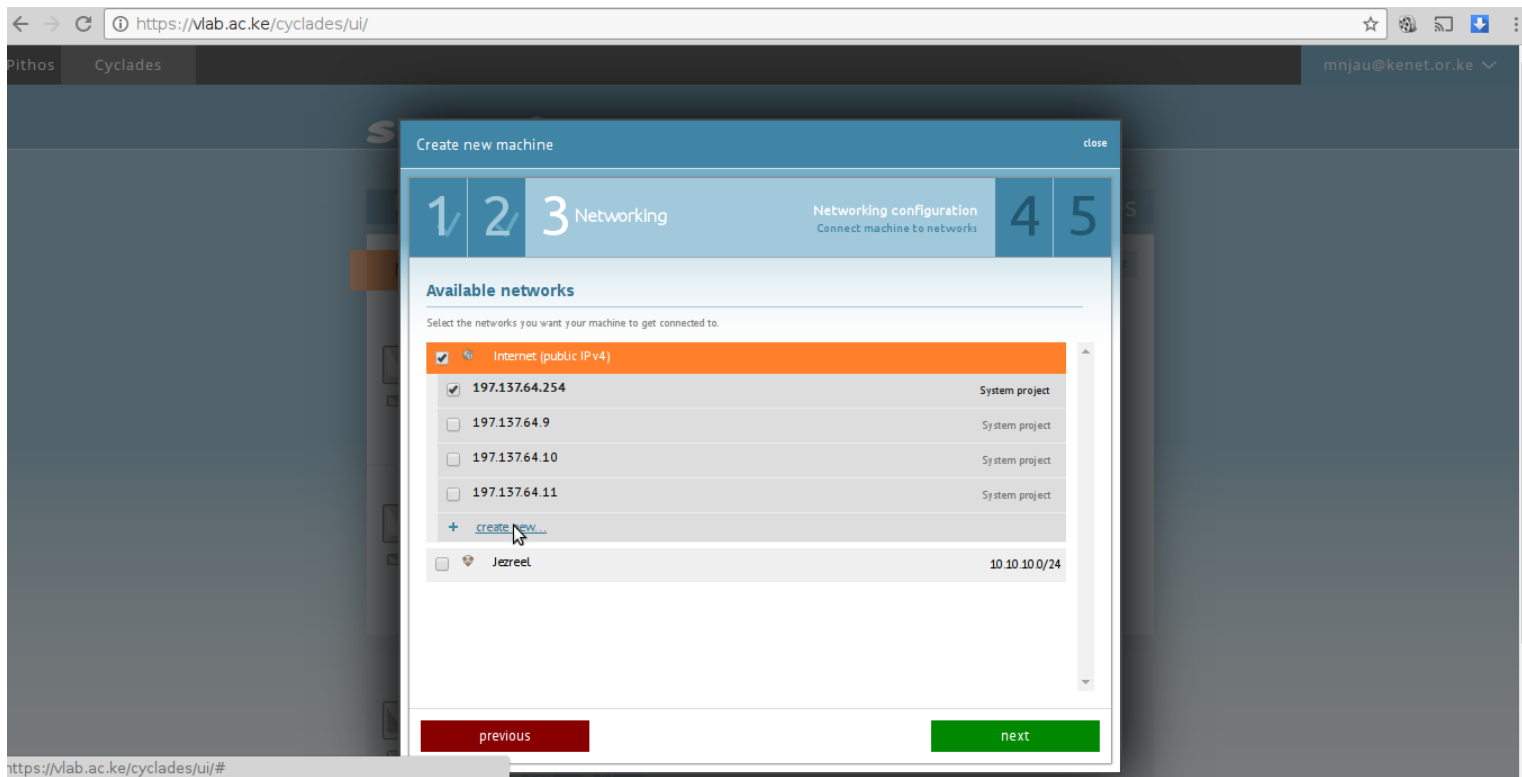


- Once you select the *isoc-course.kenet.or.ke* project, the computing resources are selected (maximum for this particular project). Leave the resources as selected and click next.



- Click next to proceed with setting up networking.

- Click on create new to request for a new IP.



- If an IP address is already reserved and selected, click next to continue

Vlab x

Secure | https://vlab.ac.ke/cyclades/ui/

Pithos Cyclades pkimani@kenet.or.ke

Create new machine close

1 2 3 Networking Networking configuration Connect machine to networks 4 5

Available networks

Select the networks you want your machine to get connected to.

☒ Internet (public IPv4)

☒ 197.137.64.8 System project

☐ 197.137.64.56 isoc-course.kenet.or.ke

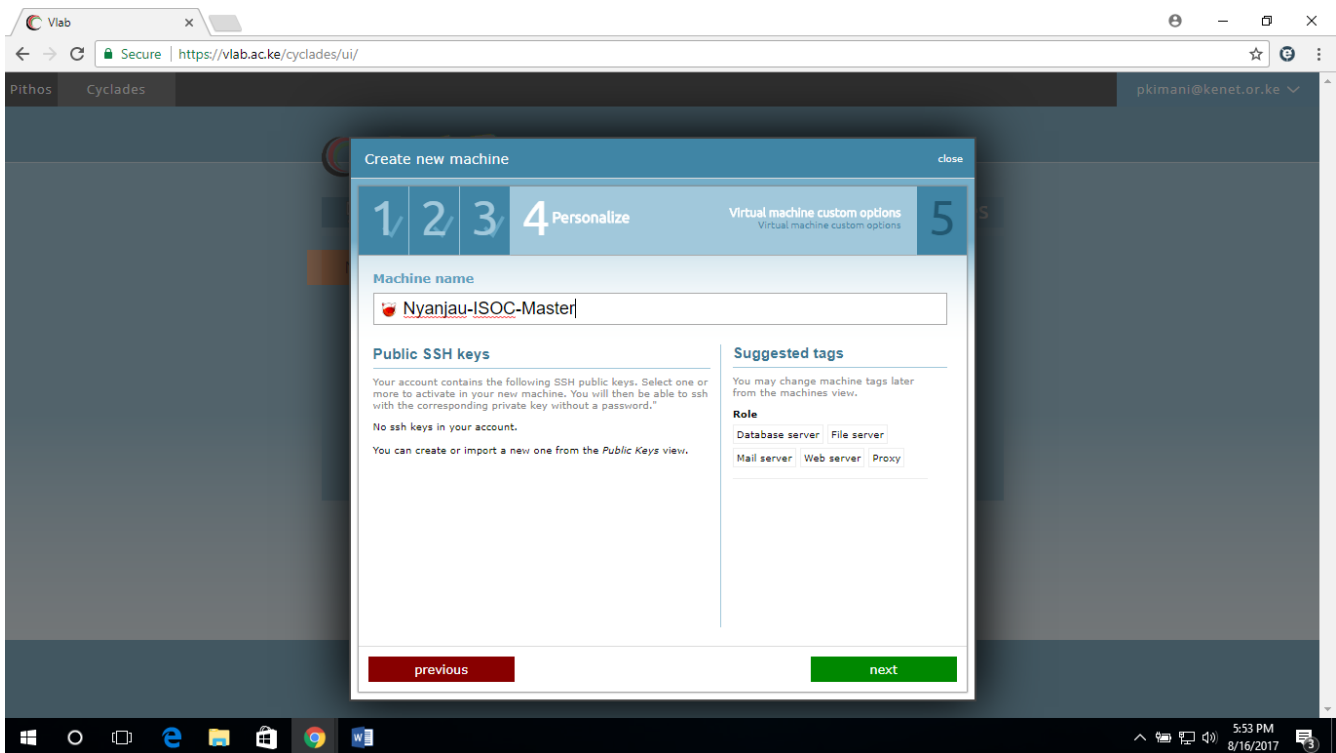
☐ 197.137.64.57 System project

[+ create new...](#)

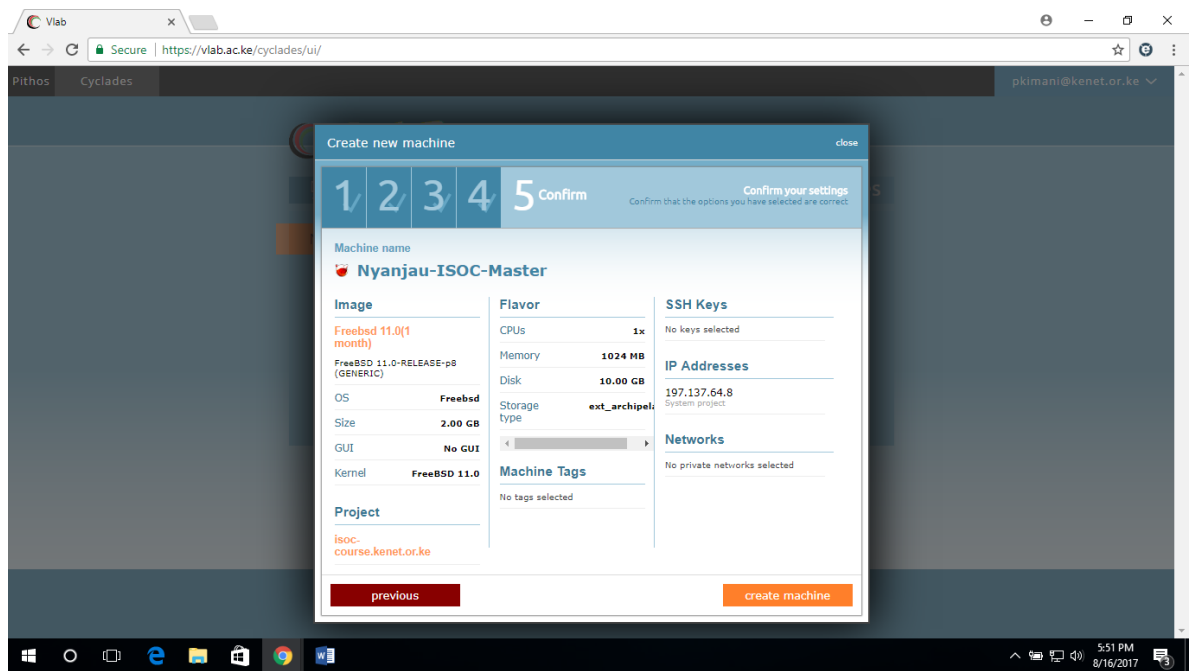
previous next

Windows taskbar: 5:22 PM 8/16/2017

- Click next to name your VM.
- Under machine name you can delete the default generated name for the VM and input any custom name of your choice.



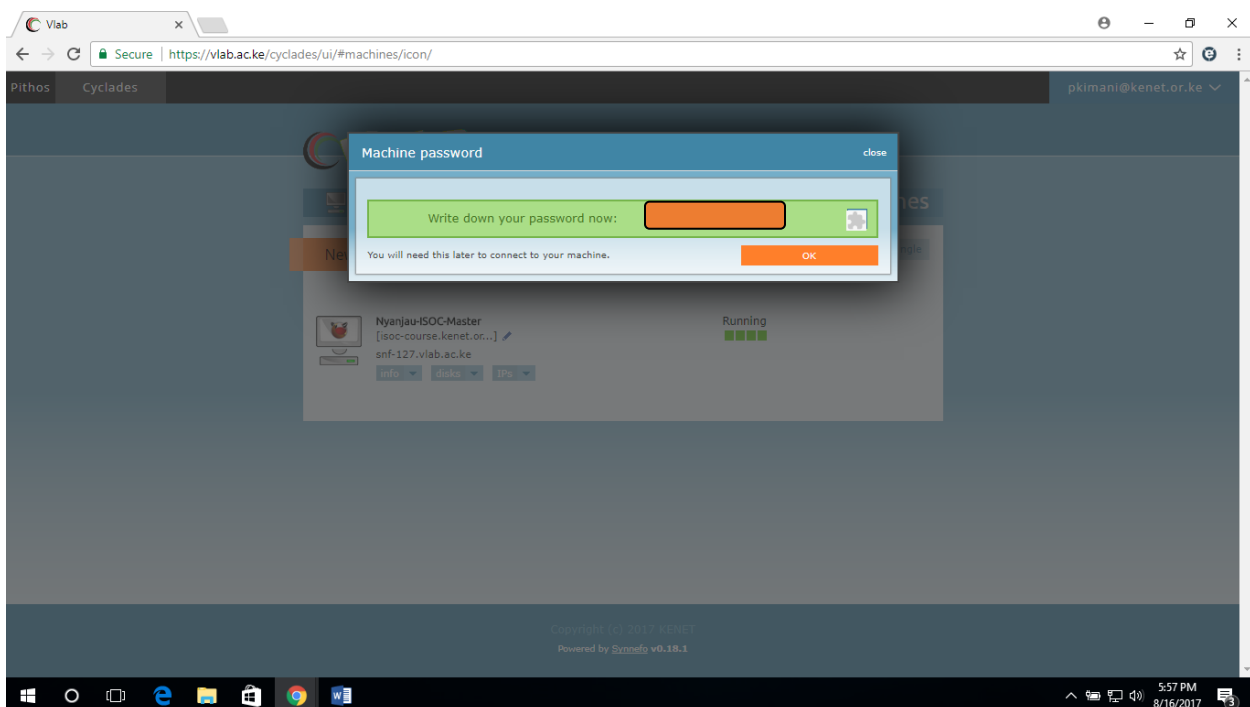
- Click next to review the summary of the VM the click on *create machine* to initialize the VM creation.



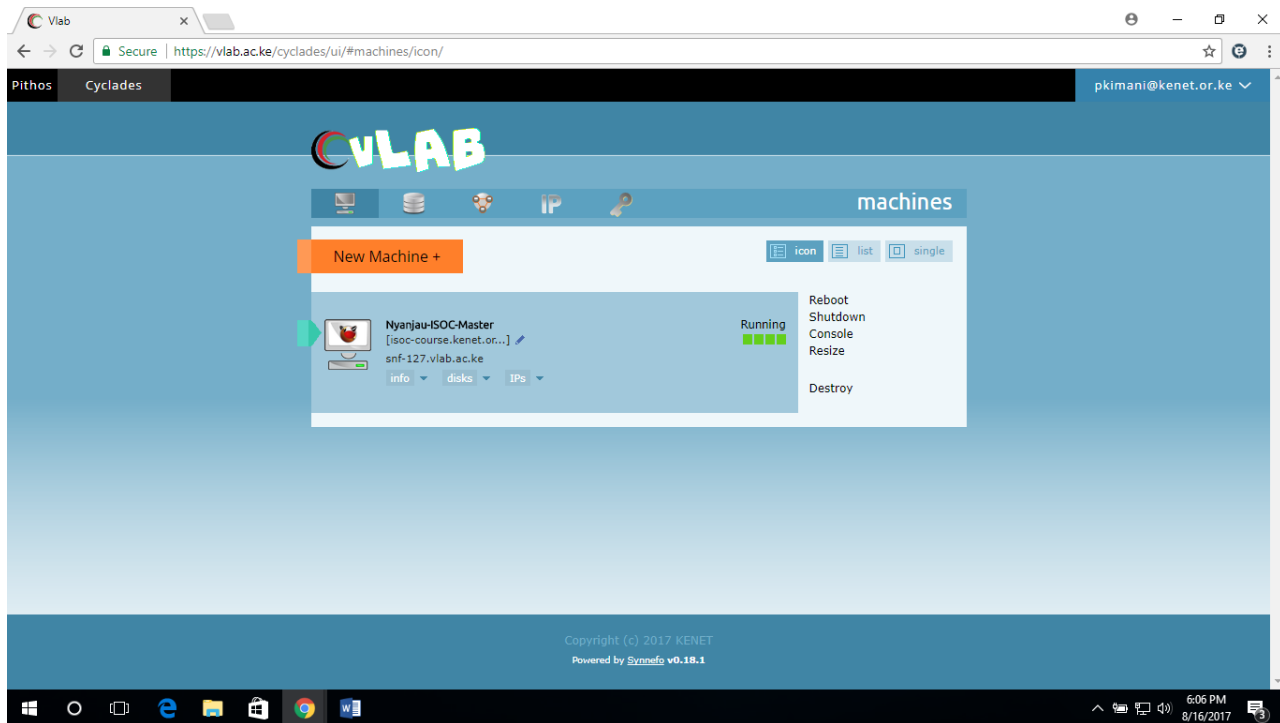
- You will immediately get a display window displaying the machine password. “Write down your password now: *****” and will prompt you for a confirmation that you have written down your password.

NB: Do not forget to copy the password

You can change this password to a password of your choice upon initial login.

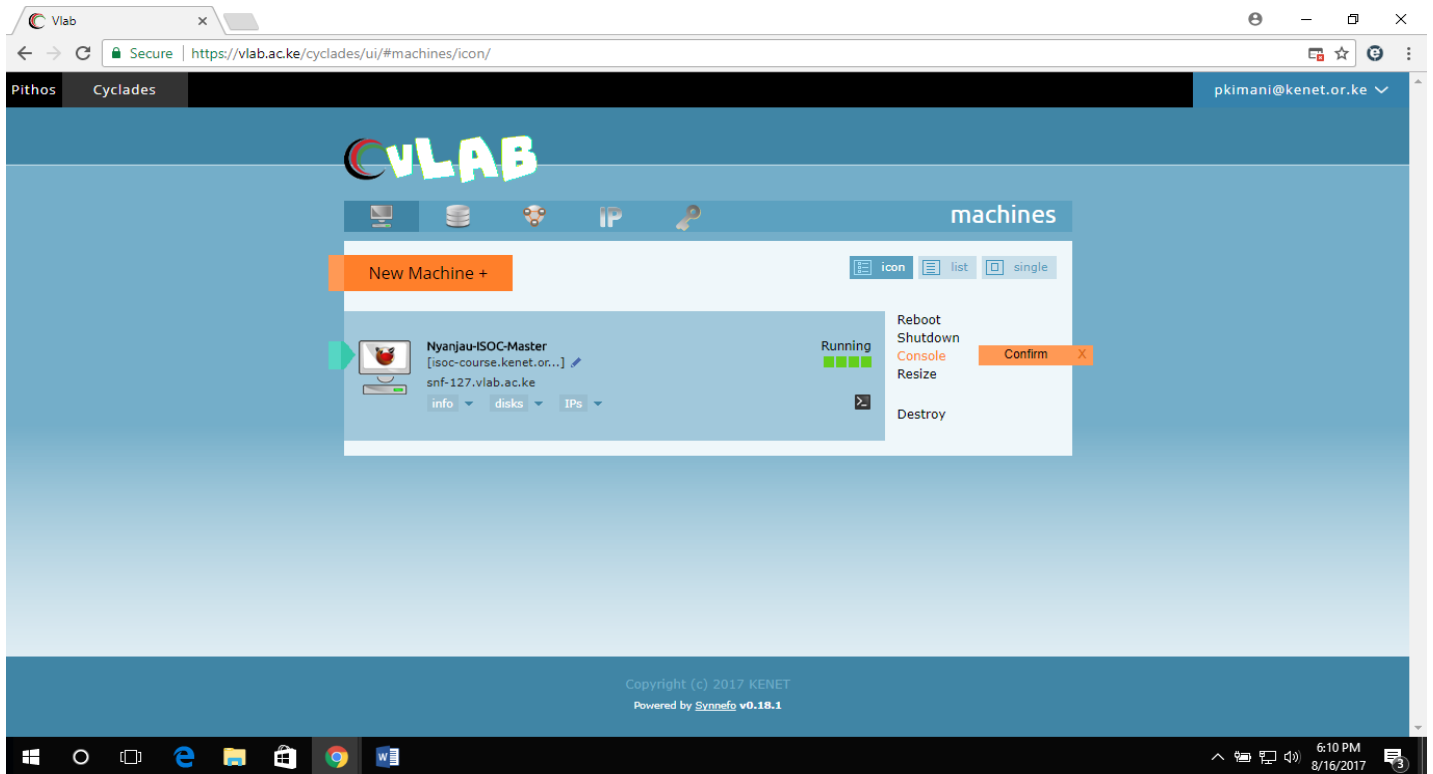


- The Virtual machine will now move to building state and once all background customization tasks are done the VM will change to running state and ready for use.
- VM running

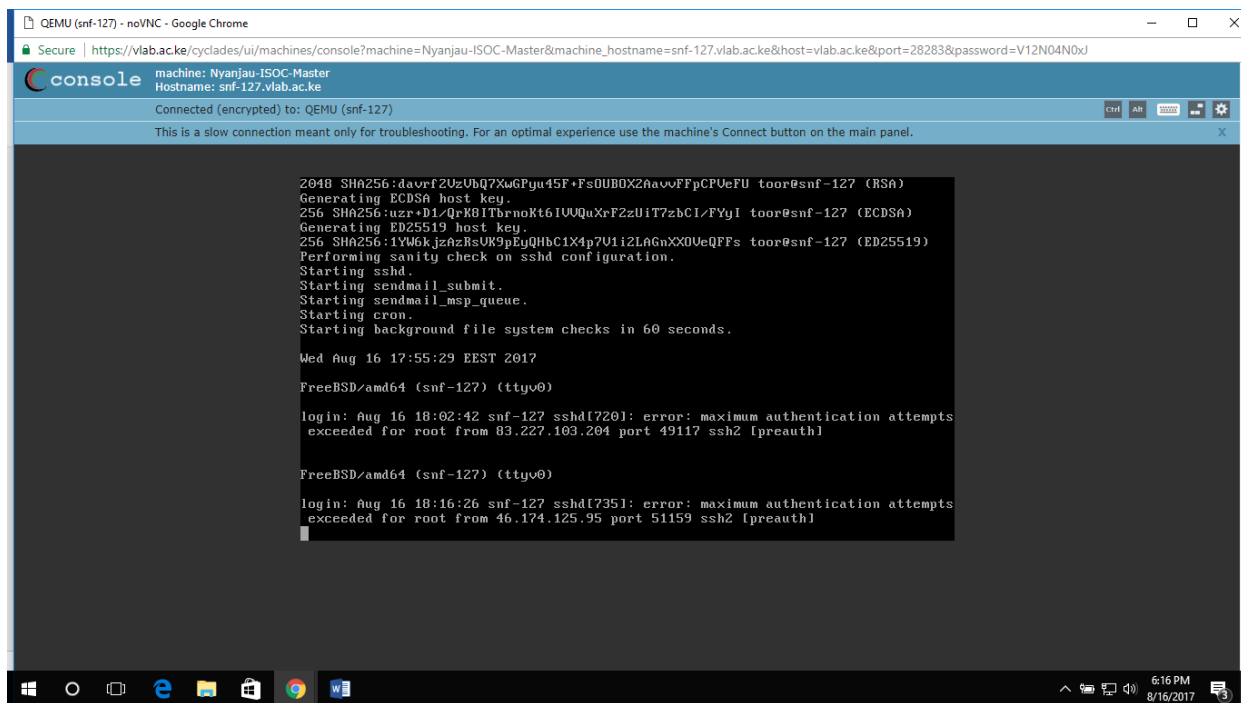


- To connect to your VM, click on the desktop icon and a window with connection details will be displayed.
- Once a VM is created a FQDN (fully qualified domain name) is automatically created referencing to the IP address you selected during the VM creation steps.
- Use the details to SSH to your machine either by using putty or any SSH client.
- The platform also provides console access to the VM.
- By hovering your mouse on the VM you will notice a menu of actions on the right hand side.

- Click on *console* then *confirm* to gain physical access to the VM.



- You can the proceed to login and begin the ISOC course.



Manually destroying a VM

- Highlight on the VM and click on the destroy menu item on the right side.
- Click on **confirm** to permanently destroy the VM.

