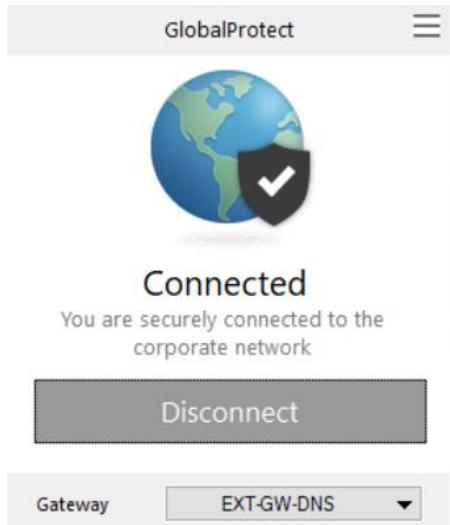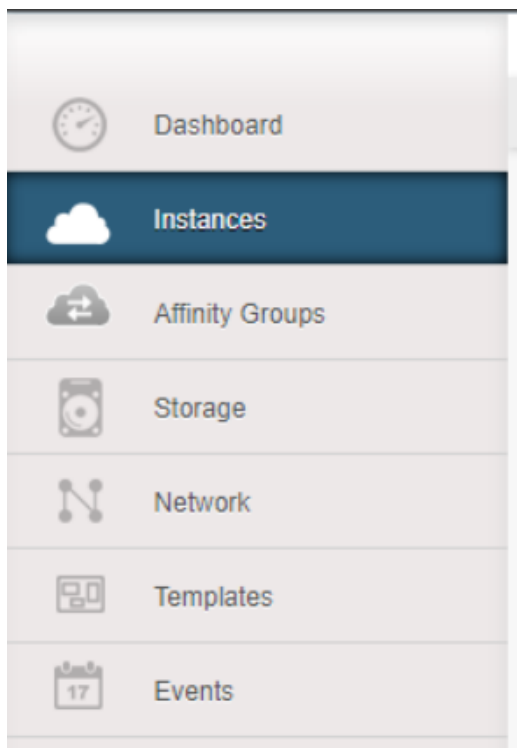Alla Topp
MSDS 696 – Data Science Practicum

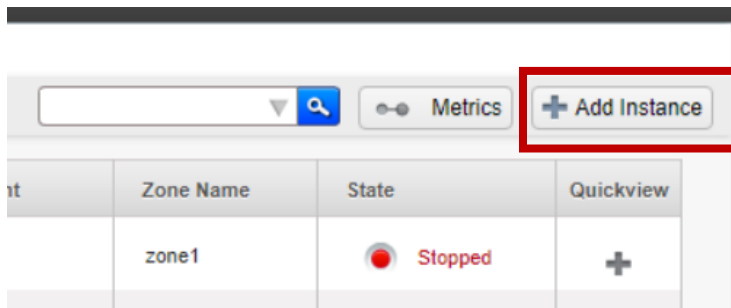# How to create New Instance from ISO and create a template.
Ubuntu 18.04

Step 1: Log in to the CloudStack UI as an administrator or user.
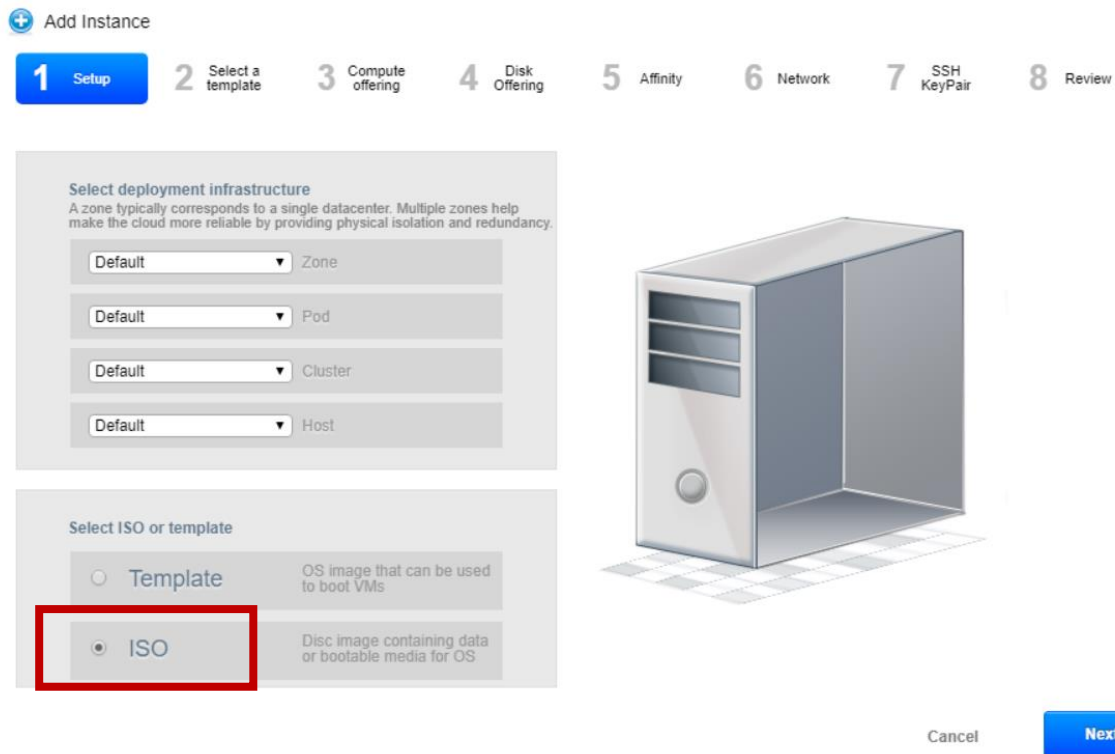

Step 2: In the left navigation bar, click Instances.

Step 3: Click Add Instance.

Step 4: Select a zone.

Step 5: Select ISO Boot, and follow the steps in the wizard.

There are a few options to choose from depending on what VM operating system is offered. In this document it`s used to create Ubuntu 18.04 ISO to work with.

Next, choose specifications such as number of CPU cores, amount of GHz and RAM. Choosing X-large option contains 4CPU cores.

Disk Offering: It is possible to choose disk option as 5, 20 or 100 GB. For the purpose of the project, 40GB hard drive was manually chosen.

Click next for the rest of the steps and name your VM at the end.

Step 6: The installation of ISO starts:

In Quickview find View Console and click on it, it will open the VM.
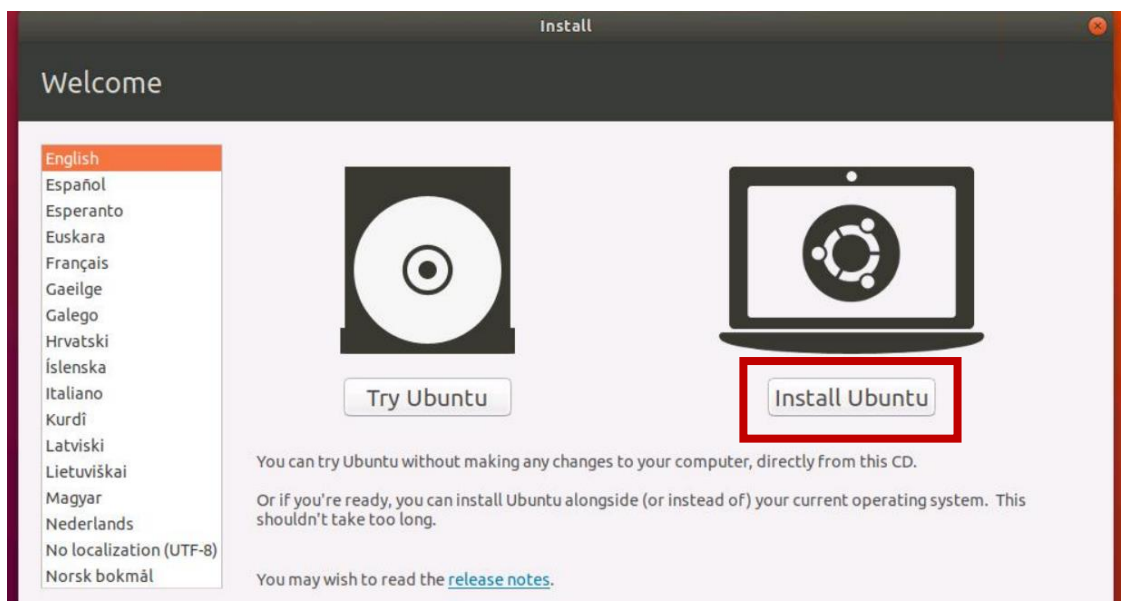
Keyboard layout

Choose your keyboard layout:

English (Australian)	**English (US)**
English (Cameroon)	English (US) - Cherokee
English (Ghana)	English (US) - English (Colemak)
English (Nigeria)	English (US) - English (Dvorak)
English (South Africa)	English (US) - English (Dvorak, alt. intl.)
English (UK)	English (US) - English (Dvorak, intl., with dead keys)
English (US)	English (US) - English (Dvorak, left-handed)
Esperanto	English (US) - English (Dvorak, right-handed)
	English (US) - English (Macintosh)

Type here to test your keyboard

Detect Keyboard Layout

Quit   Back   Continue

Updates and other software

What apps would you like to install to start with?

○ Normal installation
Web browser, utilities, office software, games, and media players.

● Minimal installation
Web browser and basic utilities.

Other options

☑ Download updates while installing Ubuntu
This saves time after installation.

☐ Install third-party software for graphics and Wi-Fi hardware and additional media formats
This software is subject to license terms included with its documentation. Some is proprietary.

Quit   Back   Continue

Install

Installation type

This computer currently has no detected operating systems. What would you like to do?

● Erase disk and install Ubuntu
Warning: This will delete all your programs, documents, photos, music, and any other files in all operating systems.

☐ Encrypt the new Ubuntu installation for security
You will choose a security key in the next step.

☑ Use LVM with the new Ubuntu installation
This will set up Logical Volume Management. It allows taking snapshots and easier partition resizing.

○ Something else
You can create or resize partitions yourself, or choose multiple partitions for Ubuntu.

Quit   Back   Install Now

Choose something easy and simple for the name and password:

After restarting the VM, stop the instance in Quickview. Once the instance is stopped, proceed to the next steps to create the template.

Go into "View Volumes" and select the Volume having the type "ROOT".

Click Create Template and provide the following:

Name and Description (choose something descriptive), OS Type (in my case it is Ubuntu 18.04 LTS), Public, Featured, Dynamically Scalable, then click OK.

The new template will be visible in the Templates section when the template creation process has been completed. The template is then available when creating a new VM.

Details	Zones	Settings

Name	Ubuntu 18.04
Hypervisor	KVM
Size	40.00 GB
Direct Download	No
extractable	No
Password Enabled	No
Dynamically Scalable	Yes
Public	Yes

The Ubuntu 18.04 Virtual Machine from ISO and the Template were created. Now, start the instance and start using the VM by clicking view console.