1.4 Install Cirros Template

In this lablette we will upload a template of a TINY Linux image for use in Cloudstack.

# Get a copy of Cirros

Logged in as root user on outernetwork1 and issue the command:

wget <https://github.com/eprasad/virt-cirros/raw/master/virt-cirros-0.3.4-x86_64-disk.img>

But we don't want to have to type THAT filename, so let's do:

mv virt-cirros-0.3.4-x86\_64-disk.img cirros.qcow2

(don't believe that it is a qcow2 image file? issue "file cirros.qcow2")

# Expose the file using python

Cloudstack can upload images from any location where it is available behind a web server.

Technically, this means we could have just plugged in the <https://github> address above.

But we will now use python to expose our own local copy. Still located in the same directory as cirros.qcow2 on outernetwork1 do:

python -m SimpleHTTPServer 80

This starts a web server listening at port 80.

# Upload via Cloudstack Web UI

Login to Cloudstack via the Web UI as user admin.

In the left Nav go to Images > Templates.

Find the button that says "Register template from URL" and press it.

(You will find the internal IP address by doing ip a, or check GCP Compute Engine > VM instances table )

URL: http://**<the INTERNAL IP address for outernetwork1>**/cirros.qcow2

Name: Cirros

Description: Tiny Cirros Image for Cloud

Zone: zone1

Hypervisor: KVM

Format: QCOW2

OS type: Other Linux (64-bit)

And select the following check boxes: Features, HVM, Public

Press OK

# Verify it is available

Click on the Cirros line in the table at Images > Templates.

Select the Zones tab.

You should see Status = Download Complete and Ready = Yes. If it is in this state the template is ready to be used.

# Create a Cirros OS VM

In the web UI navigate to Compute > Instances.

Add an instance:

1 -- use all the default values

2 -- select the "Tiny Cirros image for cloud"

3 -- select the "Small Instance"

4 -- "No thanks"

5 -- the default security group

6 -- leave empty

7 -- no changes to advanced settings

8 -- give the VM a name and select the "Standard (US) keyboard"

Press "Launch instance"

# Access the VM

After the VM created above reaches a "Running" state you can login to cloudstackmgr1 as root user and check to see it is the list of Libvirt accessible systems:

virsh list --all

You should find your system running with a name similar to i-2-5-vm. The Web UI calls this name the "Internal name" and shows it along with the display name you selected for your VM.

You can use the command:

virsh console <ID number of Name>

Press Enter once or twice after you get the message "Connected to domain <name>".

You should get a login prompt.

The username and password are specified in the text before the login prompt.

After you are logged in, you can

ping [www.google.com](http://www.google.com)

This should:

1. exit your cirros system
2. exit your cloudstackmgr1 system
3. exit your outernetwork1 system
4. reach a name server on the internet
5. resolve to an IP address
6. make a ping request of that address
7. receive a ping response through all these layers back to your cirros system

And it is just amazing that this works!