

Open Infrastructure - Task #7555

Setup uncloud at server11 and server12

01/03/2020 10:58 AM - Ahmed Bilal

Status:	Closed	Start date:	01/03/2020
Priority:	Normal	Due date:	
Assignee:	Ahmed Bilal	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
PM Check date:			
Description			
Ensure that both server11 and server12 are running with uncloud today and can be used in production? And please note all steps that you took in a redmine ticket. All uncloud scripts should run as user uncloud			

History

#1 - 01/03/2020 11:38 AM - Ahmed Bilal

Allow etcd prefix for developer role

```
ungleich-etcdctl-root role grant-permission --prefix=true developer readwrite /server11/
ungleich-etcdctl-root role grant-permission --prefix=true developer readwrite /server12/
```

server{11,12}.place6

Replace server12 with server11 when setting up server11

```
# The following commands with ~# prompt are run as root
~# tmux
~# userdel -r uncloud -f
~# useradd -m uncloud

~# echo "uncloud ALL=(ALL) NOPASSWD: ALL" >> /etc/sudoers
~# apt install python3-pip chrony qemu sudo
~# update-rc.d chrony enable

# Check whether time synchronization is successful
~# chronyc tracking

~# su - uncloud

# correcting prompt
exec bash

# Setting up uncloud
git clone https://code.ungleich.ch/uncloud/uncloud.git
cd uncloud
pip3 install .
echo "alias uncloud='/home/uncloud/.local/bin/uncloud'" >> ~/.bashrc
source ~/.bashrc

# Setting up etcd connection

# Creating directory for etcd certificates. Manually upload etcd certs into it
mkdir ~/certs

# Put your OTP credentials in following command where it says replace me
cat > /home/uncloud/uncloud/uncloud.conf <<EOF
[etcd]
url = etcd1.ungleich.ch
port = 2379
base_prefix = /server12/
ca_cert = /home/uncloud/certs/ca.pem
cert_cert = /home/uncloud/certs/developer.pem
cert_key = /home/uncloud/certs/developer-key.pem

[client]
```

```

name = replace_me
realm = replace_me
seed = replace_me
api_server = http://localhost:5000
EOF

# Configuring uncloud (OTP, Netbox, Storage, Network)
uncloud configure otp --verification-controller-url https://otp.ungleich.ch/ungleichotp/verify/ --auth-name
replace_me --auth-realm ungleich-auth --auth-seed replace_me

uncloud configure netbox --url https://netbox.ungleich.ch/ --token replace_me

uncloud configure storage --file-dir /home/uncloud/backend/files/ filesystem --vm-dir
/home/uncloud/backend/vms/ --image-dir /home/uncloud/backend/images/

uncloud configure network --prefix-length 64 --prefix 2a0a:e5c0:50::/48 --vxlan-phy-dev enp4s0f0

# Creating backend directories
mkdir -p /home/uncloud/backend/files/
mkdir -p /home/uncloud/backend/vms/
mkdir -p /home/uncloud/backend/images/

# Downloading alpine qcow2 file. We would make an image out of it.
mkdir -p /home/uncloud/backend/files/ahmedbilal-admin
wget https://cloud.ungleich.ch/s/qTb5dFYW5ii8KsD/download -O
/home/uncloud/backend/files/ahmedbilal-admin/alpine-uccloud.qcow2

# Run filescanner to track our files
uncloud filescanner

# Create image store
python3 ~/uncloud/uncloud/api/create_image_store.py

# Run uncloud api
uncloud api

# Create image (replace uuid with uuid of your file)
uncloud cli image create --name alpine --uuid c3919922-3ff8-4557-a579-b6a7cdf5b654 --image-store images

# Run uncloud imagescanner
uncloud imagescanner

# Verify that the image is created successfully
uncloud cli image list

# Create host
uncloud cli host create --hostname server12.place6.ungleich.ch --cpu 64 --ram '64GB' --os-ssd '128GB'

# Start uncloud host
uncloud host --hostname server12.place6.ungleich.ch

# Create VM
uncloud cli vm create --vm-name meow --cpu 1 --ram '1gb' --os-ssd '4gb' --image images:alpine

# Create Network (non-global fd00::/8)
uncloud cli network create --network-name simple --network-type vxlan

# Create VM with non-global network
uncloud cli vm create --vm-name meow2 --cpu 1 --ram '1gb' --os-ssd '4gb' --image images:alpine --network
simple

```

#2 - 01/05/2020 04:58 PM - Ahmed Bilal

Devuan ascii has too old QEMU i.e 2.8 while the latest is 4.2.

It is a problem because it is showing error messages which are not helpful at all and are replaced by good/sensible error messages in newer versions.

Device needs media, but drive is empty

qemu-system-x86_64: Initialization of device ide-hd failed: Device Initialization failed.

The problem was unrelated. An extra space was added to QEMU command that was causing all the fuss.

Why it appears now?

This affects VMs with no network. All the VMs I tested recently have networks. But, it is fixed now.

#3 - 01/05/2020 07:02 PM - Ahmed Bilal

uncloud files Scanner has to be modified as it was using xattr to track files which does not work on rootfs/tmpfs which is filesystem of netbooted server e.g server{11,12}.

#4 - 01/05/2020 07:09 PM - Ahmed Bilal

Remaining things

[] IPv6 Prefix on Server 12

[] VM with Global IPv6 (2a0a:e5c0:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx)

[] Setup on Server 11

#5 - 01/07/2020 02:14 PM - Ahmed Bilal

- Assignee set to Ahmed Bilal

#6 - 01/07/2020 06:38 PM - Ahmed Bilal

uncloud deployed at server{11, 12}. There are still some issues that would be problem for reliably running uncloud for longer period of time. e.g 1. <https://redmine.ungleich.ch/issues/7583> (As, soon as etcd leader changes or etcd become temporarily unavailable our uncloud components start dying ;)

Although, if a VM is running it wouldn't be hurt. Thanks, to our shiny new vmm.

#7 - 01/13/2020 08:37 AM - Ahmed Bilal

- Status changed from Seen to Closed