Install OS

```
k8s-master [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
           Installing system
                                                                                                    [ Help ]
            subiquity/Error/apply_autoinstall_config
            subiquity/Userdata/apply_autoinstall_config
            subiquity/Package/apply_autoinstall_config
subiquity/Debconf/apply_autoinstall_config
            subiquity/Kernel/apply_autoinstall_config
            subiquity/Zdev/apply_autoinstall_config
            subiquity/Ad/apply_autoinstall_config
            subiquity/Late/apply_autoinstall_config
            configuring apt
              curtin command in-target
            installing system
              executing curtin install initial step
executing curtin install partitioning step
                 curtin command install
                   configuring storage
running 'curtin block–meta simple'
curtin command block–meta
                           removing previous storage devices
                        configuring disk: disk-sda
configuring partition: partition-0
                        configuring partition: partition-1
                        configuring format: format-0 configuring mount: mount-0
              executing curtin install extract step
                 curtin command install
                   writing install sources to disk
running 'curtin extract'
                        curtin command extract
                           acquiring and extracting image from cp:///tmp/tmp0_xzrgy6/mount
                                                  [ View full log ]
```

Preparing cluster

Install Docker

Please refer to official document to install docker. In this examination i am using APT method to install. If possible use build from source method to ensure flexibility and meets the requirements needs.

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
/etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc
```

```
# Add the repository to Apt sources:
echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]
https://download.docker.com/linux/ubuntu \
$(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
```

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

```
administrator@k8s-master:~$ sudo apt-qet install docker-ce docker-ce-cli contain
erd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras libltdl7 libslirp0 pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli
  docker-ce-rootless-extras docker-compose-plugin libltdl7 libslirp0 pigz
  slirp4netns
0 upgraded, 10 newly installed, 0 to remove and 17 not upgraded.
Need to get 120 MB of archives.
After this operation, 430 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://id.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1
[63.6 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu jammy/main amd64 libltdl7 amd64 2.4.6-
15build2 [39.6 kB]
```

Install etcd

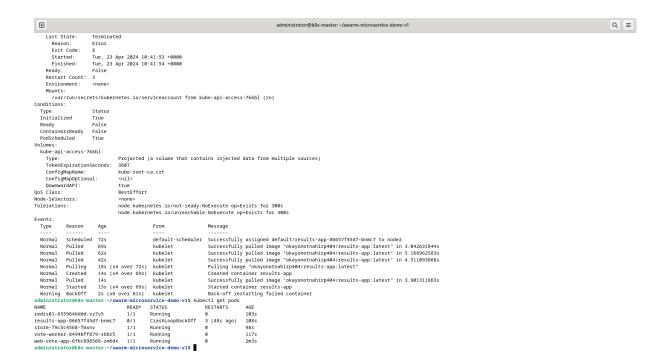
I am using binary release for this purpose and copy binary to /usr/local/bin. Send command etcd –version to check it's release version.

```
administrator@k8s-master:~$ curl -L -O https://qithub.com/etcd-io/etcd/releases/
download/v3.5.13/etcd-v3.5.13-linux-amd64.tar.gz
 % Total % Received % Xferd Average Speed
                                              Time
                                                     Time
                                                              Time Current
                               Dload Upload Total
                                                     Spent
                                                              Left Speed
                                   0
                                        0 --:--:-- --:--:--
100 19.1M 100 19.1M
                      0
                            0 1001k
                                         0 0:00:19 0:00:19 --:-- 1154k
administrator@k8s-master:~$ ls
etcd-v3.5.13-linux-amd64.tar.gz
administrator@k8s-master:~$ ls -l
total 19612
-rw-rw-r-- 1 administrator administrator 20080057 Apr 21 16:47 etcd-v3.5.13-linu
x-amd64.tar.gz
administrator@k8s-master:~$
```

Install kubectl

```
administrator@k8s-master:~$ sudo apt install -y kubectl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  kubectl
0 upgraded, 1 newly installed, 0 to remove and 17 not upgraded.
Need to get 10.8 MB of archives.
After this operation, 51.5 MB of additional disk space will be used.
Get:1 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stabl
e:/v1.30/deb kubectl 1.30.0-1.1 [10.8 MB]
Fetched 10.8 MB in 11s (1,022 kB/s)
Selecting previously unselected package kubectl.
(Reading database ... 74552 files and directories currently installed.)
Preparing to unpack .../kubectl_1.30.0-1.1_amd64.deb ...
Unpacking kubectl (1.30.0-1.1) ...
Setting up kubectl (1.30.0-1.1) ...
Scanning processes...
Scanning linux images...
```

Please refer to official document to install kubectl. In this examination i am using native package manager method to install.



Successfully deployed but got error at results-app. Problem cause might be a bug.