

login as: ubuntu
Authenticating with public key "Imported-Openssh-Key:
C:\\Users\\amit.rahate\\Downloads\\amit-centaurus-awskeypair.pem"

```
• MobaXterm Personal Edition v21.3 •  
(SSH client, X server and network tools)  
  
→ SSH session to ubuntu@35.86.138.103  
• Direct SSH      : v  
• SSH compression : v  
• SSH-browser     : v  
• X11-forwarding  : v (remote display is forwarded through SSH)  
  
→ For more info, ctrl+click on help or visit our website.
```

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.6.0-rc2 x86_64)

* Documentation: <https://help.ubuntu.com>
* Management: <https://landscape.canonical.com>
* Support: <https://ubuntu.com/advantage>

System information as of Mon Oct 25 12:34:11 UTC 2021

System load:	0.08	Processes:	166
Usage of /:	19.0% of 124.02GB	Users logged in:	1
Memory usage:	1%	IP address for eth0:	172.31.19.109
Swap usage:	0%	IP address for docker0:	172.17.0.1

* Canonical Livepatch is available for installation.
- Reduce system reboots and improve kernel security. Activate at:
<https://ubuntu.com/livepatch>

91 packages can be updated.
64 of these updates are security updates.
To see these additional updates run: apt list --upgradable

New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

```
Last login: Mon Oct 25 12:24:54 2021 from 114.143.207.106  
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ uname -a  
Linux ip-172-31-19-109 5.6.0-rc2 #1 SMP Tue Feb 25 18:54:05 UTC 2020 x86_64 x86_64 x86_64  
GNU/Linux  
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ git clone  
https://github.com/Click2cloud-Centaurus/arktos.git ~/go/src/k8s.io/arktos -b  
default-cni-mizar  
fatal: destination path '/home/ubuntu/go/src/k8s.io/arktos' already exists and is not an  
empty directory.  
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ cd ~/go/src/k8s.io/arktos  
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ git checkout default-cni-mizar  
Already on 'default-cni-mizar'  
Your branch is up to date with 'origin/default-cni-mizar'.
```

```

ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ sudo bash ./hack/setup-dev-node.sh
The script is to help install prerequisites of Arktos development environment
on a fresh Linux installation.
It's been tested on Ubuntu 16.04 LTS and 18.04 LTS.
Update apt.
Hit:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu bionic-security InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
86 packages can be upgraded. Run 'apt list --upgradable' to see them.
Install docker.
Reading package lists... Done
Building dependency tree
Reading state information... Done
docker.io is already the newest version (20.10.7-0ubuntu1~18.04.2).
0 upgraded, 0 newly installed, 0 to remove and 86 not upgraded.
Install make & gcc.
Reading package lists... Done
Building dependency tree
Reading state information... Done
make is already the newest version (4.1-9.1ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 86 not upgraded.
Reading package lists... Done
Building dependency tree
Reading state information... Done
gcc is already the newest version (4:7.4.0-1ubuntu2.3).
0 upgraded, 0 newly installed, 0 to remove and 86 not upgraded.
Reading package lists... Done
Building dependency tree
Reading state information... Done
jq is already the newest version (1.5+dfsg-2).
0 upgraded, 0 newly installed, 0 to remove and 86 not upgraded.
Install golang.
--2021-10-25 12:35:16-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 142.250.217.110, 2607:f8b0:400a:80b::200e
Connecting to dl.google.com (dl.google.com)|142.250.217.110|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 120139686 (115M) [application/octet-stream]
Saving to: '/tmp/go1.13.9.linux-amd64.tar.gz.1'

go1.13.9.linux-amd64.tar.gz.1
100%[=====
=====] 114.57M  23.8MB/s   in 10s

2021-10-25 12:35:27 (11.2 MB/s) - '/tmp/go1.13.9.linux-amd64.tar.gz.1' saved
[120139686/120139686]

Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ echo export
PATH=$PATH:/usr/local/go/bin\ >> ~/.profile

```

```

ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ echo cd \${HOME}/go/src/k8s.io/arktos >>
~/profile
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ source ~/profile
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ ./hack/arktos-up.sh
DBG: bridge CNI plugin will be installed AFTER cluster is up
DBG: effective feature gates
AllAlpha=false,WorkloadInfoDefaulting=true,QPSDoubleGCCController=true,QPSDoubleRSCont
roller=true,MandatoryArktosNetwork=true
DBG: effective disabling admission plugins
DBG: effective default network template file is
/home/ubuntu/go/src/k8s.io/arktos/hack/testdata/default-flat-network.tmpl
DBG: kubelet arg RESOLV_CONF is /run/systemd/resolve/resolv.conf
WARNING : The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.
WARNING : This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
cni plugin is bridge; arktos will use bridge to provision pod network
Ensuring firewall to allow traffic forward by default
-P FORWARD DROP
-P FORWARD ACCEPT
Ensuring minimum cni plugin installation...
installing cni plugin binaries
./
./flannel
./ptp
./host-local
./firewall
./portmap
./tuning
./vlan
./host-device
./bandwidth
./sbr
./static
./dhcp
./ipvlan
./macvlan
./loopback
./bridge
2021-10-25 12:40:19
URL:https://github-releases.githubusercontent.com/84575398/53318d00-bf61-11e9-9a8f-40
364582e9ed?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F2
0211025%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211025T124018Z&X-Amz-Expires=300
&X-Amz-Signature=e1ff9cc069890a45c91c8d75dc182ffe055d7a6a61008a26b3063b67f1842d2a&X-A
mz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=84575398&response-content-dispositi
on=attachment%3B%20filename%3Dcni-plugins-linux-amd64-v0.8.2.tgz&response-content-typ
e=application%2Foctet-stream [36662740/36662740] -> "-" [1]
setting up cni conf file...
copying /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf...
copied /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf
done with bridge cni plugin installation
WARNING : The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.

```

```
WARNING : This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
Getting runtime deployment file  libvirt-qemu
--2021-10-25 12:40:19--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/libvirt-qemu
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,
185.199.108.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)[185.199.111.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6578 (6.4K) [text/plain]
Saving to: '/tmp/libvirt-qemu'

/tmp/libvirt-qemu
100%[=====
=====>] 6.42K --.-KB/s in 0s

2021-10-25 12:40:20 (57.2 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file  libvirtd
--2021-10-25 12:40:20--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/libvirtd
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)[185.199.110.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1617 (1.6K) [text/plain]
Saving to: '/tmp/libvirtd'

/tmp/libvirtd
100%[=====
=====>] 1.58K --.-KB/s in 0s

2021-10-25 12:40:20 (21.4 MB/s) - '/tmp/libvirtd' saved [1617/1617]

Getting runtime deployment file  virtlet
--2021-10-25 12:40:20--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/virtlet
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)[185.199.110.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2582 (2.5K) [text/plain]
Saving to: '/tmp/virtlet'

/tmp/virtlet
100%[=====
=====>] 2.52K --.-KB/s in 0s

2021-10-25 12:40:20 (34.5 MB/s) - '/tmp/virtlet' saved [2582/2582]
```

```
Getting runtime deployment file vms
--2021-10-25 12:40:20--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/vms
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 485 [text/plain]
Saving to: '/tmp/vms'
```

```
/tmp/vms
100%[=====
=====>]    485  --.-KB/s    in 0s
```

2021-10-25 12:40:20 (23.9 MB/s) - '/tmp/vms' saved [485/485]

```
Getting runtime deployment file vmruntime.yaml
--2021-10-25 12:40:20--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/data/virtlet-ds.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11643 (11K) [text/plain]
Saving to: '/tmp/vmruntime.yaml'
```

```
/tmp/vmruntime.yaml
100%[=====
=====>]  11.37K  --.-KB/s    in 0s
```

2021-10-25 12:40:20 (70.1 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

```
Getting runtime deployment file images.yaml
--2021-10-25 12:40:20--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/images.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 254 [text/plain]
Saving to: '/tmp/images.yaml'
```

```
/tmp/images.yaml
100%[=====
=====>]    254  --.-KB/s    in 0s
```

2021-10-25 12:40:21 (12.3 MB/s) - '/tmp/images.yaml' saved [254/254]

```

Stopping Apparmor service
make: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
make[1]: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
F1025 12:40:42.731073      6782 defaulter.go:292] cannot import package
../../../../../vendor/k8s.io/api/core/v1
Makefile.generated_files:249: recipe for target 'gen_defaulter' failed
make[1]: *** [gen_defaulter] Error 1
make[1]: *** Waiting for unfinished jobs....
make[1]: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
Makefile:560: recipe for target 'generated_files' failed
make: *** [generated_files] Error 2
make: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
!!! Error in ./hack/arktos-up.sh:142
  Error in ./hack/arktos-up.sh:142. 'make -j4 -C "${KUBE_ROOT}" WHAT="cmd/kubect1
cmd/hyperkube cmd/kube-apiserver cmd/kube-controller-manager
cmd/workload-controller-manager cmd/cloud-controller-manager cmd/kubelet
cmd/kube-proxy cmd/kube-scheduler cmd/arktos-network-controller"' exited with status 2
Call stack:
  1: ./hack/arktos-up.sh:142 main(...)
Exiting with status 1
ubuntu@ip-172-31-19-109:~/go/src/k8s.io/arktos$ ./hack/arktos-up.sh
DBG: bridge CNI plugin will be installed AFTER cluster is up
DBG: effective feature gates
AllAlpha=false,WorkloadInfoDefaulting=true,QPSDoubleGCCController=true,QPSDoubleRSCont
roller=true,MandatoryArktosNetwork=true
DBG: effective disabling admission plugins
DBG: effective default network template file is
/home/ubuntu/go/src/k8s.io/arktos/hack/testdata/default-flat-network.tmpl
DBG: kubelet arg RESOLV_CONF is /run/systemd/resolve/resolv.conf
WARNING : The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.
WARNING : This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
cni plugin is bridge; arktos will use bridge to provision pod network
Ensuring firewall to allow traffic forward by default
-P FORWARD ACCEPT
Ensuring minimum cni plugin installation...
found bridge, host-local, loopback
setting up cni conf file...
copying /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf...
copied /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf
done with bridge cni plugin installation
WARNING : The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.
WARNING : This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
Getting runtime deployment file  libvirt-qemu
--2021-10-25 12:40:54--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/apparmor/libvirt-qemu
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com

```

(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6578 (6.4K) [text/plain]
Saving to: '/tmp/libvirt-qemu'

/tmp/libvirt-qemu

100%[=====]
=====>] 6.42K --.-KB/s in 0s

2021-10-25 12:40:54 (63.2 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file libvirtd

--2021-10-25 12:40:54--

https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/libvirtd

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.109.133, 185.199.108.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.110.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1617 (1.6K) [text/plain]

Saving to: '/tmp/libvirtd'

/tmp/libvirtd

100%[=====]
=====>] 1.58K --.-KB/s in 0s

2021-10-25 12:40:54 (28.0 MB/s) - '/tmp/libvirtd' saved [1617/1617]

Getting runtime deployment file virtlet

--2021-10-25 12:40:54--

https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/virtlet

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.109.133, 185.199.108.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.110.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2582 (2.5K) [text/plain]

Saving to: '/tmp/virtlet'

/tmp/virtlet

100%[=====]
=====>] 2.52K --.-KB/s in 0s

2021-10-25 12:40:54 (42.3 MB/s) - '/tmp/virtlet' saved [2582/2582]

Getting runtime deployment file vms

--2021-10-25 12:40:54--

https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/vms

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.109.133, 185.199.108.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.110.133|:443... connected.

HTTP request sent, awaiting response... 200 OK
Length: 485 [text/plain]
Saving to: '/tmp/vms'

/tmp/vms
100%[=====]
=====>] 485 --.-KB/s in 0s

2021-10-25 12:40:54 (29.4 MB/s) - '/tmp/vms' saved [485/485]

Getting runtime deployment file vmruntime.yaml
--2021-10-25 12:40:54--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/data/virtlet-ds.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11643 (11K) [text/plain]
Saving to: '/tmp/vmruntime.yaml'

/tmp/vmruntime.yaml
100%[=====]
=====>] 11.37K --.-KB/s in 0s

2021-10-25 12:40:54 (39.5 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

Getting runtime deployment file images.yaml
--2021-10-25 12:40:54--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/images.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 254 [text/plain]
Saving to: '/tmp/images.yaml'

/tmp/images.yaml
100%[=====]
=====>] 254 --.-KB/s in 0s

2021-10-25 12:40:54 (14.5 MB/s) - '/tmp/images.yaml' saved [254/254]

Stopping Apparmor service
make: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
make[1]: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
make[1]: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to
_output/ArktosCopyrightTool.log
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3064 and retry


```

the command.
~/go/src/k8s.io/arktos
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3064 and retry
the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
+++ [1025 12:41:14] Building go targets for linux/amd64:
cmd/kubect1
cmd/hyperkube
cmd/kube-apiserver
cmd/kube-controller-manager
cmd/workload-controller-manager
cmd/cloud-controller-manager
cmd/kubelet
cmd/kube-proxy
cmd/kube-scheduler
cmd/arktos-network-controller
Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to
_output/ArktosCopyrightTool.log
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3064 and retry
the command.
~/go/src/k8s.io/arktos
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3064 and retry
the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
make: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'

```

The current version is 3.4.3

```

API SERVER insecure port is free, proceeding...
API SERVER secure port is free, proceeding...
Unable to successfully run 'cfssl' from
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/ga
mes:/snap/bin:/usr/local/go/bin:/usr/local/go/bin:/usr/local/go/bin:/home/ubuntu/go/s
rc/k8s.io/arktos/third_party/etc; downloading instead...

```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	0
100	623	0	623	0	--:--:--	--:--:--	608k
100	9.8M	100	9.8M	0	--:--:--	--:--:--	12.1M

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	0
100	627	100	627	0	--:--:--	--:--:--	2837
100	2224k	100	2224k	0	--:--:--	--:--:--	20.8M

Detected host and ready to start services. Doing some housekeeping first...

Using GO_OUT /home/ubuntu/go/src/k8s.io/arktos/_output/local/bin/linux/amd64
Starting services now!
Starting etcd

The current version is 3.4.3

```
etcd --name ip-172-31-19-109 --listen-peer-urls http://172.31.19.109:2380
--advertise-client-urls http://172.31.19.109:2379 --data-dir /tmp/tmp.2lHlwevVzB
--listen-client-urls http://172.31.19.109:2379,http://127.0.0.1:2379
--listen-peer-urls http://172.31.19.109:2380 --debug > "/tmp/etcd.log" 2>/dev/null
Waiting for etcd to come up.
+++ [1025 12:42:18] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"2911832674751082708","member_id":"14296030703116921852","revision":"2","raft_term":"2"}}Starting 1 kube-apiserver instances. If you want to make
changes to the kube-apiserver nubmer, please run export APISERVER_SERVER=n(n=1,2,...).
Copied the apiserver partition config file /var/run/kubernetes/apiserver.config...
Can't load /home/ubuntu/.rnd into RNG
140280359805376:error:2406F079:random number generator:RAND_load_file:Cannot open
file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
.....+++++
.....+++++
writing new private key to '/var/run/kubernetes/server-ca.key'
-----
Can't load /home/ubuntu/.rnd into RNG
139998800605632:error:2406F079:random number generator:RAND_load_file:Cannot open
file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
.....+++++
.....+++++
writing new private key to '/var/run/kubernetes/client-ca.key'
-----
Can't load /home/ubuntu/.rnd into RNG
139873195581888:error:2406F079:random number generator:RAND_load_file:Cannot open
file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
.....+++++
.....+++++
writing new private key to '/var/run/kubernetes/request-header-ca.key'
-----
2021/10/25 12:42:18 [INFO] generate received request
2021/10/25 12:42:18 [INFO] received CSR
2021/10/25 12:42:18 [INFO] generating key: rsa-2048
2021/10/25 12:42:19 [INFO] encoded CSR
2021/10/25 12:42:19 [INFO] signed certificate with serial number
681991680157680764844981454749314636393517531010
2021/10/25 12:42:19 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:19 [INFO] generate received request
2021/10/25 12:42:19 [INFO] received CSR
```

2021/10/25 12:42:19 [INFO] generating key: rsa-2048
2021/10/25 12:42:19 [INFO] encoded CSR
2021/10/25 12:42:19 [INFO] signed certificate with serial number
44846375818473532025591575116570618218417293295
2021/10/25 12:42:19 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:19 [INFO] generate received request
2021/10/25 12:42:19 [INFO] received CSR
2021/10/25 12:42:19 [INFO] generating key: rsa-2048
2021/10/25 12:42:19 [INFO] encoded CSR
2021/10/25 12:42:19 [INFO] signed certificate with serial number
639968860822645046923840058588836192875249925197
2021/10/25 12:42:19 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:19 [INFO] generate received request
2021/10/25 12:42:19 [INFO] received CSR
2021/10/25 12:42:19 [INFO] generating key: rsa-2048
2021/10/25 12:42:20 [INFO] encoded CSR
2021/10/25 12:42:20 [INFO] signed certificate with serial number
546554829899126901866254549477926573948405515540
2021/10/25 12:42:20 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:20 [INFO] generate received request
2021/10/25 12:42:20 [INFO] received CSR
2021/10/25 12:42:20 [INFO] generating key: rsa-2048
2021/10/25 12:42:20 [INFO] encoded CSR
2021/10/25 12:42:20 [INFO] signed certificate with serial number
177228702255925052452606800191198201031048996673
2021/10/25 12:42:20 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:20 [INFO] generate received request
2021/10/25 12:42:20 [INFO] received CSR
2021/10/25 12:42:20 [INFO] generating key: rsa-2048
2021/10/25 12:42:21 [INFO] encoded CSR
2021/10/25 12:42:21 [INFO] signed certificate with serial number

63831945986102718794293716185787866043767487227
2021/10/25 12:42:21 [WARNING] This certificate lacks a "hosts" field. This makes it unsuitable for websites. For more information see the Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum (<https://cabforum.org>); specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:21 [INFO] generate received request
2021/10/25 12:42:21 [INFO] received CSR
2021/10/25 12:42:21 [INFO] generating key: rsa-2048
2021/10/25 12:42:21 [INFO] encoded CSR
2021/10/25 12:42:21 [INFO] signed certificate with serial number 50834310254789023653069386657520247316207588224
2021/10/25 12:42:21 [WARNING] This certificate lacks a "hosts" field. This makes it unsuitable for websites. For more information see the Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum (<https://cabforum.org>); specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:21 [INFO] generate received request
2021/10/25 12:42:21 [INFO] received CSR
2021/10/25 12:42:21 [INFO] generating key: rsa-2048
2021/10/25 12:42:21 [INFO] encoded CSR
2021/10/25 12:42:21 [INFO] signed certificate with serial number 489565662322402310586278654114655682994661843685
2021/10/25 12:42:21 [WARNING] This certificate lacks a "hosts" field. This makes it unsuitable for websites. For more information see the Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum (<https://cabforum.org>); specifically, section 10.2.3 ("Information Requirements").
2021/10/25 12:42:21 [INFO] generate received request
2021/10/25 12:42:21 [INFO] received CSR
2021/10/25 12:42:21 [INFO] generating key: rsa-2048
2021/10/25 12:42:22 [INFO] encoded CSR
2021/10/25 12:42:22 [INFO] signed certificate with serial number 718266442290236904776580051538496915000743438205
2021/10/25 12:42:22 [WARNING] This certificate lacks a "hosts" field. This makes it unsuitable for websites. For more information see the Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum (<https://cabforum.org>); specifically, section 10.2.3 ("Information Requirements").
Waiting for apiserver to come up
+++ [1025 12:42:33] On try 9, apiserver: : ok
clusterrolebinding.rbac.authorization.k8s.io/kube-apiserver-kubelet-admin created
Cluster "local-up-cluster" set.
use 'kubectl --kubeconfig=/var/run/kubernetes/admin-kube-aggregator0.kubeconfig' to use the aggregated API server
2021/10/25 12:42:34 [INFO] generate received request
2021/10/25 12:42:34 [INFO] received CSR

```

2021/10/25 12:42:34 [INFO] generating key: rsa-2048
2021/10/25 12:42:35 [INFO] encoded CSR
2021/10/25 12:42:35 [INFO] signed certificate with serial number
277066447442060836809790144524451866593658880226
2021/10/25 12:42:35 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
service/kube-dns created
serviceaccount/kube-dns created
configmap/kube-dns created
deployment.apps/kube-dns created
Kube-dns addon successfully deployed.
2021/10/25 12:42:36 [INFO] generate received request
2021/10/25 12:42:36 [INFO] received CSR
2021/10/25 12:42:36 [INFO] generating key: rsa-2048
2021/10/25 12:42:36 [INFO] encoded CSR
2021/10/25 12:42:36 [INFO] signed certificate with serial number
520562347290538741133802246199511147350325316730
2021/10/25 12:42:36 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
kubelet ( 4312 ) is running.
Create default storage class for
storageclass.storage.k8s.io/standard created
customresourcedefinition.apiextensions.k8s.io/networks.arktos.futurewei.com created
*****
Setup Arktos components ...

```

```

ip-172-31-19-109 Ready <none> 0s v0.9.0
node/ip-172-31-19-109 labeled
configmap/virtlet-image-translations created
daemonset.apps/virtlet created
configmap/virtlet-config created
clusterrolebinding.rbac.authorization.k8s.io/virtlet created
clusterrole.rbac.authorization.k8s.io/virtlet created
clusterrole.rbac.authorization.k8s.io/configmap-reader created
clusterrole.rbac.authorization.k8s.io/virtlet-userdata-reader created
clusterrolebinding.rbac.authorization.k8s.io/kubelet-node-binding created
clusterrolebinding.rbac.authorization.k8s.io/vm-userdata-binding created
clusterrole.rbac.authorization.k8s.io/virtlet-crd created
clusterrolebinding.rbac.authorization.k8s.io/virtlet-crd created
serviceaccount/virtlet created

```

NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
virtlet	0	0	0	0	0	<none>	0s

```

clusterrole.rbac.authorization.k8s.io/system:arktos-network-reader created
clusterrolebinding.rbac.authorization.k8s.io/system:kubelet-network-reader created

```

Arktos Setup done.

Setup Kata Containers components ...

* Install Kata components

snap "kata-containers" is already installed, see 'snap help refresh'

* Checking Kata compatibility

No newer release available time="2021-10-25T12:42:40Z" level=error msg="CPU property not found" arch=amd64 description="Virtualization support" name=vmx pid=5333 source=runtime type=flag time="2021-10-25T12:42:40Z" level=error msg="Module is not loaded and it can not be inserted. Please consider running with sudo or as root" arch=amd64 module=kvm name=kata-runtime pid=5333 source=runtime time="2021-10-25T12:42:40Z" level=error msg="kernel property not found" arch=amd64 description="Kernel-based Virtual Machine" name=kvm pid=5333 source=runtime type=module time="2021-10-25T12:42:40Z" level=error msg="Module is not loaded and it can not be inserted. Please consider running with sudo or as root" arch=amd64 module=vhost name=kata-runtime pid=5333 source=runtime time="2021-10-25T12:42:40Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio" name=vhost pid=5333 source=runtime type=module time="2021-10-25T12:42:40Z" level=error msg="Module is not loaded and it can not be inserted. Please consider running with sudo or as root" arch=amd64 module=vhost_net name=kata-runtime pid=5333 source=runtime time="2021-10-25T12:42:40Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio network" name=vhost_net pid=5333 source=runtime type=module time="2021-10-25T12:42:40Z" level=error msg="Module is not loaded and it can not be inserted. Please consider running with sudo or as root" arch=amd64 module=vhost_vsock name=kata-runtime pid=5333 source=runtime time="2021-10-25T12:42:40Z" level=error msg="kernel property not found" arch=amd64 description="Host Support for Linux VM Sockets" name=vhost_vsock pid=5333 source=runtime type=module time="2021-10-25T12:42:40Z" level=error msg="Module is not loaded and it can not be inserted. Please consider running with sudo or as root" arch=amd64 module=kvm_intel name=kata-runtime pid=5333 source=runtime time="2021-10-25T12:42:40Z" level=error msg="kernel property not found" arch=amd64 description="Intel KVM" name=kvm_intel pid=5333 source=runtime type=module time="2021-10-25T12:42:40Z" level=error msg="ERROR: System is not capable of running Kata Containers" arch=amd64 name=kata-runtime pid=5333 source=runtime ERROR: System is not capable of running Kata Containers

Aborted. Current system does not support Kata Containers.

Kata Setup done.

Local Kubernetes cluster is running. Press Ctrl-C to shut it down.

Logs:

/tmp/kube-apiserver0.log

/tmp/kube-controller-manager.log

/tmp/kube-proxy.log

/tmp/kube-scheduler.log

/tmp/kubelet.log

To start using your cluster, you can open up another terminal/tab and run:

export KUBECONFIG=/var/run/kubernetes/admin.kubeconfig

Or

export KUBECONFIG=/var/run/kubernetes/adminN(N=0,1,...).kubeconfig

cluster/kubect1.sh

Alternatively, you can write to the default kubeconfig:

```
export KUBERNETES_PROVIDER=local

cluster/kubect1.sh config set-cluster local --server=https://ip-172-31-19-109:6443
--certificate-authority=/var/run/kubernetes/server-ca.crt
cluster/kubect1.sh config set-credentials myself
--client-key=/var/run/kubernetes/client-admin.key
--client-certificate=/var/run/kubernetes/client-admin.crt
cluster/kubect1.sh config set-context local --cluster=local --user=myself
cluster/kubect1.sh config use-context local
cluster/kubect1.sh
```