

# Test report - Arktos deployment with Mizar CNI

Date:13-Oct-21

## Create an instance on AWS

preferred OS is **Ubuntu 18.04**. If you are using AWS, the recommended instance size is t2.2xlarge and the storage size is 128GB or more.

SSH instance with credentials:

output:

```
Authenticating with public key "Imported-OpenSSH-Key: C:\\Users\\kaliram.sahu\\Downloads\\ram-aws.pem"

• MobaXterm Professional v21.0 •
  (SSH client, X server and network tools)

> SSH session to ubuntu@54.218.59.120
  • Direct SSH : ✓
  • SSH compression : ✓
  • SSH-browser : ✓
  • X11-forwarding : ✓ (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 5.4.0-1045-aws x86_64)

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

System information as of Wed Oct 13 08:38:32 UTC 2021

System load: 0.56          Processes: 200
Usage of /:  1.2% of 96.88GB Users logged in: 0
Memory usage: 0%          IP address for eth0: 172.31.20.46
Swap usage: 0%

0 packages can be updated.
0 of these updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

**Step 1:- Check the kernel version and update if version below 5.6:**

**uname -a**

Update the kernel if the kernel version is below 5.6.0-rc2

**wget https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh**

**sudo bash kernelupdate.sh**

## output:

```
see man sudo_root for details.
ubuntu@ip-172-31-20-46:~$ uname -a
Linux ip-172-31-20-46 5.4.0-1045-aws #47-18.04.1-Ubuntu SMP Tue Apr 13 15:58:14 UTC 2021 x86_64 x86_64 GNU/Linux
ubuntu@ip-172-31-20-46:~$ wget https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
--2021-10-13 08:39:23-- https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.111.133, 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: 791 [text/plain]
Saving to: 'kernelupdate.sh'

kernelupdate.sh          100%[=====] 791 --.-KB/s   in 0s

2021-10-13 08:39:23 (37.0 MB/s) - 'kernelupdate.sh' saved [791/791]

ubuntu@ip-172-31-20-46:~$ sudo bash kernelupdate.sh
--2021-10-13 08:39:24-- https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-headers-5.6.0-rc2-1_amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.112.35
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.112.35|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7621020 (7.3M) []
Saving to: './linux-5.6-rc2/linux-headers-5.6.0-rc2-1_amd64.deb'

linux-headers-5.6.0-rc2-1_amd64.de 100%[=====] 7.27M  5.17MB/s   in 1.4s

2021-10-13 08:39:26 (5.17 MB/s) - './linux-5.6-rc2/linux-headers-5.6.0-rc2-1_amd64.deb' saved [7621020/7621020]

--2021-10-13 08:39:26-- https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.196.41
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.196.41|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 857827912 (818M) [application/x-www-form-urlencoded]
Saving to: './linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb'

linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64. 100%[=====] 818.09M  4.32MB/s   in 1m 42s

2021-10-13 08:41:09 (8.01 MB/s) - './linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb' saved [857827912/857827912]

--2021-10-13 08:41:09-- https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2-1_amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.30.36
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.30.36|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 56427036 (54M) [application/x-www-form-urlencoded]
Saving to: './linux-5.6-rc2/linux-image-5.6.0-rc2-1_amd64.deb'

linux-image-5.6.0-rc2-1_amd64.deb 100%[=====] 53.81M  6.92MB/s   in 8.3s

2021-10-13 08:41:17 (6.50 MB/s) - './linux-5.6-rc2/linux-image-5.6.0-rc2-1_amd64.deb' saved [56427036/56427036]

--2021-10-13 08:41:17-- https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.200.105
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.200.105|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1082248 (1.0M) []
Saving to: './linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.deb'

linux-libc-dev_5.6.0-rc2-1_amd64.deb 100%[=====] 1.03M  2.61MB/s   in 0.4s

2021-10-13 08:41:18 (2.61 MB/s) - './linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.deb' saved [1082248/1082248]

Continue kernel update (y/n)?y
Updating kernel
```

```
Saving to: './linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.deb'

linux-libc-dev_5.6.0-rc2-1_amd64.deb 100%[=====] 1.03M  2.61MB/s   in 0.4s

2021-10-13 08:41:18 (2.61 MB/s) - './linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.deb' saved [1082248/1082248]

Continue kernel update (y/n)?y
Updating kernel
Selecting previously unselected package linux-headers-5.6.0-rc2.
(Reading database ... 57240 files and directories currently installed.)
Preparing to unpack .../linux-headers-5.6.0-rc2-1_amd64.deb ...
Unpacking linux-headers-5.6.0-rc2 (5.6.0-rc2-1) ...
Selecting previously unselected package linux-image-5.6.0-rc2-dbg.
Preparing to unpack .../linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb ...
Unpacking linux-image-5.6.0-rc2-dbg (5.6.0-rc2-1) ...
Selecting previously unselected package linux-image-5.6.0-rc2.
Preparing to unpack .../linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb ...
Unpacking linux-image-5.6.0-rc2 (5.6.0-rc2-1) ...
Selecting previously unselected package linux-libc-dev:amd64.
Preparing to unpack .../linux-libc-dev_5.6.0-rc2-1_amd64.deb ...
Unpacking linux-libc-dev:amd64 (5.6.0-rc2-1) ...
Setting up linux-headers-5.6.0-rc2 (5.6.0-rc2-1) ...
Setting up linux-image-5.6.0-rc2-dbg (5.6.0-rc2-1) ...
Setting up linux-image-5.6.0-rc2 (5.6.0-rc2-1) ...
update-initramfs: Generating /boot/initrd.img-5.6.0-rc2
Sourcing file /etc/default/grub
Sourcing file /etc/default/grub.d/50-cloudimg-settings.cfg
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-5.6.0-rc2
Found initrd image: /boot/initrd.img-5.6.0-rc2
Found linux image: /boot/vmlinuz-5.4.0-1045-aws
Found initrd image: /boot/initrd.img-5.4.0-1045-aws
done
Setting up linux-libc-dev:amd64 (5.6.0-rc2-1) ...
Reboot host (y/n)?y
Rebooting

Remote side unexpectedly closed network connection
```

## Step 2 :- Clone the Arktos repository and install the required dependencies:

```
git clone https://github.com/CentaurusInfra/arktos.git ~/go/src/k8s.io/arktos.git
```

```
sudo bash $HOME/go/src/k8s.io/arktos/hack/setup-dev-node.sh
```

### output:

```
ubuntu@ip-172-31-20-46:~$ git clone https://github.com/CentaurusInfra/arktos.git ~/go/src/k8s.io/arktos
Cloning into '/home/ubuntu/go/src/k8s.io/arktos'...
remote: Enumerating objects: 104097, done.
remote: Counting objects: 100% (655/655), done.
remote: Compressing objects: 100% (438/438), done.
remote: Total 104097 (delta 290), reused 381 (delta 194), pack-reused 103442
Receiving objects: 100% (104097/104097), 208.18 MiB | 25.95 MiB/s, done.
Resolving deltas: 100% (62784/62784), done.
Checking out files: 100% (20761/20761), done.
ubuntu@ip-172-31-20-46:~$ sudo bash $HOME/go/src/k8s.io/arktos/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
```

```
echo export PATH=$PATH:/usr/local/go/bin \>> ~/.profile
```

```
echo cd \"$HOME/go/src/k8s.io/arktos \>> ~/.profile
```

```
source ~/.profile
```

## Step 3 :- Start Arktos cluster

```
CNIPLUGIN=mizar ./hack/arktos-up.sh
```

```
Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@ip-172-31-20-46:~$ echo export PATH=$PATH:/usr/local/go/bin \>> ~/.profile
ubuntu@ip-172-31-20-46:~$ echo cd \"$HOME/go/src/k8s.io/arktos \>> ~/.profile
ubuntu@ip-172-31-20-46:~$ source ~/.profile
ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./hack/arktos-up.sh
DBG: Flannel CNI plugin will be installed AFTER cluster is up.
DBG: effective feature gates AllAlpha=false,WorkloadInfoDefaulting=true,QPSDoubleGCCController=true,QPSDoubleRSCController=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/resolve.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
./
```

Deployment successfully done.

output:

```
*****
Setup Kata Containers components ...
* Install Kata components
kata-containers 2.21 from Kata Containers (katacontainers/) installed
* Checking Kata compatibility
No newer release available time="2021-10-13T08:57:21Z" level=error msg="CPU property not found" arch=amd64 description="Virtualization support" name=vmx pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Intel KVM" name=kvm_intel pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Kernel-based Virtual Machine" name=kvm pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio" name=vhost name=kata-runtime pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime type=module time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio network" name=vhost_net pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" level=error msg="Module is not loaded and it can not be inserted. Please consider running with sudo or as root" arch=amd64 module=vsock name=kata-runtime pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Host Support for Linux VM Sockets" name=vhost_vsock pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" level=error msg="ERROR: System is not capable of running Kata Containers" arch=amd64 name=kata-runtime pid=31629 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/admin(N=0,1,...).kubeconfig
cluster/kubectl.sh

Alternatively, you can write to the default kubeconfig:
export KUBERNETES_PROVIDER=local

cluster/kubectl.sh config set-cluster local --server=https://ip-172-31-20-46:6443 --certificate-authority=/var/run/kubernetes/server-ca.crt
cluster/kubectl.sh config set-credentials myself --client-key=/var/run/kubernetes/client-admin.key --client-certificate=/var/run/kubernetes/client-admin.crt
cluster/kubectl.sh config set-context local --cluster=local --user=myself
cluster/kubectl.sh config use-context local
cluster/kubectl.sh
```

4. Leave the "arktos-up.sh" terminal and open another terminal to the master node. Verify mizar pods i.e. mizar-operator and mizar-daemon pods are in running state,

./cluster/kubectl.sh create -f <https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/etc/deploy/deploy.mizar.yaml>

```
Last login: Wed Oct 13 08:45:02 2021 from 114.143.207.106
ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ date
Wed Oct 13 08:57:47 UTC 2021
ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh create -f https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/etc/deploy/deploy.mizar.yaml
customresourcedefinition.apixtensions.k8s.io/bouncers.mizar.com created
customresourcedefinition.apixtensions.k8s.io/dividers.mizar.com created
customresourcedefinition.apixtensions.k8s.io/droplets.mizar.com created
customresourcedefinition.apixtensions.k8s.io/endpoints.mizar.com created
customresourcedefinition.apixtensions.k8s.io/subnets.mizar.com created
customresourcedefinition.apixtensions.k8s.io/vpcs.mizar.com created
serviceaccount/mizar-operator created
clusterrolebinding.rbac.authorization.k8s.io/mizar-operator created
daemonset.apps/mizar-daemon created
deployment.apps/mizar-operator created
ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$
ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get pods -A -o wide
NAMESPACE NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATE
default mizar-daemon-j4qn9 0/1 Init:0/1 0 30s 172.31.20.46 ip-172-31-20-46 <none> <none>
default mizar-operator-6b78d7ffc4-zhlr 0/1 ContainerCreating 0 30s 172.31.20.46 ip-172-31-20-46 <none> <none>
kube-system coredns-default-7bfbdb56-brxjl 1/1 Running 0 73s 10.88.0.3 ip-172-31-20-46 <none> <none>
kube-system kube-dns-554c5866fc-lrqz 3/3 Running 0 73s 10.88.0.2 ip-172-31-20-46 <none> <none>
```



## Step-4:- Check Cluster health

./cluster/kubectl.sh get pods -Ao wide

```
ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get pods -Ao wide
NAMESPACE   NAME                                     HASHKEY   READY   STATUS   RESTARTS   AGE   IP           NODE                                     NOMINATED NODE   READINESS GATES
default     mizar-daemon-j4qn9                     215974360263463498   0/1     Init:0/1   1       4m47s   172.31.20.46   ip-172-31-20-46   <none>           <none>
default     mizar-operator-6b78d7ffc4-2hldr        4966616447064412607   1/1     Running    0       4m47s   172.31.20.46   ip-172-31-20-46   <none>           <none>
kube-system coredns-default-77bfd956-brxjl        3844287695994213265   1/1     Running    0       5m30s   10.88.0.3     ip-172-31-20-46   <none>           <none>
kube-system kube-dns-554c5866fc-lrqzq        2617391296327810453   3/3     Running    0       5m30s   10.88.0.2     ip-172-31-20-46   <none>           <none>
kube-system virtlet-kv4j9               3042748765067089210   3/3     Running    0       5m30s   172.31.20.46   ip-172-31-20-46   <none>           <none>

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get pods -Ao wide
NAMESPACE   NAME                                     HASHKEY   READY   STATUS   RESTARTS   AGE   IP           NODE                                     NOMINATED NODE   READINESS GATES
default     mizar-daemon-j4qn9                     215974360263463498   1/1     Running    0       6m31s   172.31.20.46   ip-172-31-20-46   <none>           <none>
default     mizar-operator-6b78d7ffc4-2hldr        4966616447064412607   1/1     Running    0       6m31s   172.31.20.46   ip-172-31-20-46   <none>           <none>
kube-system coredns-default-77bfd956-brxjl        3844287695994213265   1/1     Running    0       7m14s   10.88.0.3     ip-172-31-20-46   <none>           <none>
kube-system kube-dns-554c5866fc-lrqzq        2617391296327810453   3/3     Running    0       7m14s   10.88.0.2     ip-172-31-20-46   <none>           <none>
kube-system virtlet-kv4j9               3042748765067089210   3/3     Running    0       7m14s   172.31.20.46   ip-172-31-20-46   <none>           <none>

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get nodes
./cluster/kubectl.sh get vpc -Ao wide
```

./cluster/kubectl.sh get nodes

./cluster/kubectl.sh get vpc -Ao wide

./cluster/kubectl.sh get subnet -Ao wide

./cluster/kubectl.sh get dividers -Ao wide

./cluster/kubectl.sh get bouncers -Ao wide

./cluster/kubectl.sh get net -Ao wide

### output:

```
./cluster/kubectl.sh get net -Ao wide
NAME      STATUS   ROLES   AGE   VERSION
ip-172-31-20-46   Ready   <none>   13m   v0.9.0

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get pods -Ao wide
NAMESPACE   NAME                                     HASHKEY   READY   STATUS   RESTARTS   AGE   IP           NODE                                     NOMINATED NODE   READINESS GATES
default     mizar-daemon-j4qn9                     215974360263463498   1/1     Running    0       12m   172.31.20.46   ip-172-31-20-46   <none>           <none>
default     mizar-operator-6b78d7ffc4-2hldr        4966616447064412607   1/1     Running    0       12m   172.31.20.46   ip-172-31-20-46   <none>           <none>
kube-system coredns-default-77bfd956-brxjl        3844287695994213265   1/1     Running    0       13m   10.88.0.3     ip-172-31-20-46   <none>           <none>
kube-system kube-dns-554c5866fc-lrqzq        2617391296327810453   3/3     Running    0       13m   10.88.0.2     ip-172-31-20-46   <none>           <none>
kube-system virtlet-kv4j9               3042748765067089210   3/3     Running    0       13m   172.31.20.46   ip-172-31-20-46   <none>           <none>

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get vpc -Ao wide
NAMESPACE   NAME   IP       PREFIX   VNI   DIVIDERS   STATUS   CREATETIME   PROVISIONDELAY
default     vpc0   20.0.0.0   8       1       1       Init        2021-10-13T08:58:49.361483   PROVISIONDELAY

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get subnet -Ao wide
NAMESPACE   NAME   IP       PREFIX   VNI   VPC   STATUS   BOUNCERS   CREATETIME   PROVISIONDELAY
default     net0   20.0.0.0   8       1       vpc0   Init        2021-10-13T08:58:49.429067   PROVISIONDELAY

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get dividers -Ao wide
No resources found.

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get bouncers -Ao wide
No resources found.

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get net -Ao wide
NAME      TYPE   VPC   PHASE   DNS
default   Flat   Ready   10.0.0.231

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get nodes
./cluster/kubectl.sh get net -Ao wide
NAME      STATUS   ROLES   AGE   VERSION
ip-172-31-20-46   Ready   <none>   13m   v0.9.0

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos$ ./cluster/kubectl.sh get pods -Ao wide
NAMESPACE   NAME                                     HASHKEY   READY   STATUS   RESTARTS   AGE   IP           NODE                                     NOMINATED NODE   READINESS GATES
default     mizar-daemon-j4qn9                     215974360263463498   1/1     Running    0       12m   172.31.20.46   ip-172-31-20-46   <none>           <none>
default     mizar-operator-6b78d7ffc4-2hldr        4966616447064412607   1/1     Running    0       12m   172.31.20.46   ip-172-31-20-46   <none>           <none>
kube-system coredns-default-77bfd956-brxjl        3844287695994213265   1/1     Running    0       13m   10.88.0.3     ip-172-31-20-46   <none>           <none>
```