Test Networking

1

kubectl run -i --rm --tty debug --

If you don't see a command prompt, try pressing enter.

Launch pods into Secondary CIDR network

Let's launch few pods and test networking 1 2 3 kubectl create deployment nginx -image=\$ACCOUNT_ID.dkr.ecr.\$AWS_REGION.amazonaws.com/aws/nginx/nginx kubectl scale --replicas=3 deployments/nginx kubectl expose deployment/nginx --type=NodePort --port 80 kubectl get pods -o wide READY STATUS RESTARTS AGE IP NAME NODE NOMINATED NODE READINESS GATES nginx-9c796bbf9-f4hhq 1/1 Running 0 11s 100.64.33.201 ip-10-0-1-117.eu-west-1.compute.internal <none> <none> nginx-9c796bbf9-sx7gn 1/1 Running 0 11s 100.64.139.157 ip-10-0-3-121.eu-west-1.compute.internal <none> <none> nginx-9c796bbf9-t7s7k 1/1 Running 0 2m21s 100.64.135.55 ip-10-0-3-121.eu-west-1.compute.internal <none> <none> If after 10-20 seconds have elapsed you see the containers are not Running - but in status Container Creating instead run this script to re-annotate the worker nodes: 1 CLUSTER=\$(aws ssm get-parameter --name /workshop/tf-eks/cluster-name --query Parameter.Value -output text) ./reannotate-nodes.sh \$CLUSTER And then re-check the pods status with kubectl get pods -o wide]

You can use busybox pod and ping pods within same host or across hosts using IP address

image=\$ACCOUNT_ID.dkr.ecr.\$AWS_REGION.amazonaws.com/aws/docker/library/busybox -- sh

```
/#
Test access to internet and to nginx service
Internet connectivity - should fail (hang) as we build our EKS cluster in a private VPC!
1
wget google.com -0 -
Connecting to google.com (172.217.5.238:80)
Type ctrl-c to escape:
1
2
<ctrl-c>
Test internal connectivity:
1
wget nginx -0 -
Connecting to nginx (10.100.170.156:80)
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
***TRUNCATED**
<em>Thank you for using nginx.</em>
</body>
</html>
        612 0:00:00 ETA
written to stdout
Finally exit from the busybox container:
```

exit

Proceed to the next step