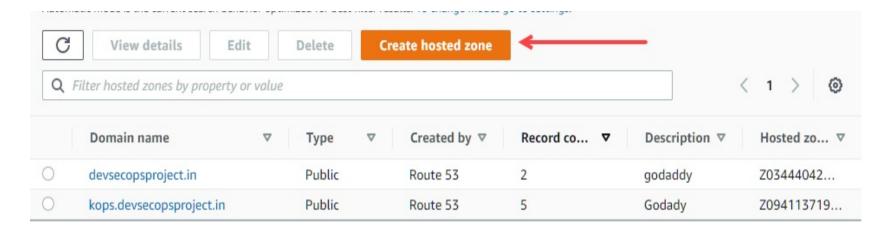


- AWS IAM User with Access and Secret Key and Admistrator Access
- AWS Cli Configure in local laptop using aws configure command with secret and Access Key





### Add AWS NS record to Your Godaddy DNS settings



|   | 1.12 | 1821 | 0000 0 00                | [      | 12 9 8 |      |
|---|------|------|--------------------------|--------|--------|------|
|   | NS   | @    | ns-1492.awsdns-58.org.   | 1 Hour | Delete | Edit |
|   | NS   | @    | ns-1942.awsdns-50.co.uk. | 1 Hour | Delete | Edit |
| · |      |      |                          |        |        |      |
|   | NS   | @    | ns-397.awsdns-49.com.    | 1 Hour | Delete | Edit |
|   | NS   | @    | ns-606.awsdns-11.net.    | 1 Hour | Delete | Edit |

## **Verify Your Cluster**

| ubuntu@ip-172-20-68-106:~\$ kubectl get nodes |        |                       |     |         |  |  |  |  |
|---|--------|-----------------------|-----|---------|--|--|--|--|
| NAME  | STATUS | ROLES                 | AGE | VERSION |  |  |  |  |
| ip-172-20-109-241.ec2.internal                | Ready  | node                  | 73m | v1.23.5 |  |  |  |  |
| ip-172-20-42-86.ec2.internal                  | Ready  | node                  | 67m | v1.23.5 |  |  |  |  |
| ip-172-20-47-136.ec2.internal                 | Ready  | control-plane,master  | 85m | v1.23.5 |  |  |  |  |
| ip-172-20-68-106.ec2.internal                 | Ready  | control-plane, master | 85m | v1.23.5 |  |  |  |  |
| ip-172-20-94-124.ec2.internal                 | Ready  | node                  | 83m | v1.23.5 |  |  |  |  |
| ip-172-20-97-164.ec2.internal                 | Ready  | control-plane,master  | 85m | v1.23.5 |  |  |  |  |

#### **DNS** Resolution issue

| Record name                                       | ▽ Type ▽ | Routin ▽ | Differ ▽ | Value/Route traffic to   ▽   |
|---|----------|----------|----------|--|
| kops.devsecopsproject.in                          | NS       | Simple   | _        | ns-397.awsdns-49.com.<br>ns-1492.awsdns-58.org.<br>ns-1942.awsdns-50.co.uk.<br>ns-606.awsdns-11.net. |
| kops.devsecopsproject.in                          | SOA      | Simple   | -        | ns-397.awsdns-49.com. awsdns-hostmaster.amazon.com. 1  |
| api.kops.devsecopsproject.in                      | А        | Simple   | \ē.      | 18.208.174.240<br>44.195.87.94<br>54.172.67.108  |
| api.internal.kops.devsecopsproject.in             | А        | Simple   | -        | 172.20.47.136<br>172.20.68.106<br>172.20.97.164  |
| kops-controller.internal.kops.devsecopsproject.ir | n A      | Simple   | 15       | 172.20.47.136<br>172.20.68.106<br>172.20.97.164  |

if dns resolve issue occured then directly add A Record entry in GoDaddy for api.kops.devsecopsproject.in and their respective ip

Download the KOPS Tools for windows Using Below URL

https://kops.sigs.k8s.io/getting\_started/install/

Download the Kubectl for windows

https://kubernetes.io/docs/tasks/tools/install-kubectl-windows/

place both tool in one folder

#### Run the Below command it will generate the Terraform Configuration

kops create cluster --name=kops.devsecopsproject.in --state=s3://kops.devsecopsproject.in --authorization RBAC --zones=us-east-1a,us-east-1b,us-east-1c --master-zones=us-east-1a,us-east-1b,us-east-1c --node-count=3 --node-size=t2.micro --master-size=t2.medium --master-count=3 --dns-zone=kops.devsecopsproject.in --out=Kops\_terrafrom --target=terraform --ssh-public-key=C:\Users\Sam\.ssh\id\_rsa.pub

#### Install terraform according to your operating system

terraform init terraform apply

```
ubuntu@ip-172-20-68-106:~$ kubectl get nodes
NAME
                                   STATUS
                                            ROLES
                                                                     AGE
                                                                           VERSION
ip-172-20-109-241.ec2.internal
                                   Ready
                                            node
                                                                     73m
                                                                           v1.23.5
ip-172-20-42-86.ec2.internal
                                                                     67m
                                   Ready
                                            node
                                                                           v1.23.5
ip-172-20-47-136.ec2.internal
                                            control-plane, master
                                                                     85m
                                                                           v1.23.5
                                   Ready
ip-172-20-68-106.ec2.internal
                                            control-plane, master
                                                                     85m
                                   Ready
                                                                           v1.23.5
ip-172-20-94-124.ec2.internal
                                            node
                                                                     83m
                                                                           v1.23.5
                                   Ready
ip-172-20-97-164.ec2.internal
                                            control-plane, master
                                                                     85m
                                                                           v1.23.5
                                   Ready
```