s3108133@TOMSBC585734:**~**$ kops create cluster --name=jeevanvarughese.com --state=s3://kops-state-jeev-ca --zones=ca-central-1a --node-count=2 --node-size=t2.micro --master-size=t2.micro --dns-zone=jeevanvarughese.com

I1028 23:05:21.468363   90750 create\_cluster.go:659] Inferred --cloud=aws from zone "ca-central-1a"

error reading SSH key file "/Users/s3108133/.ssh/id\_rsa.pub": open /Users/s3108133/.ssh/id\_rsa.pub: no such file or directory

s3108133@TOMSBC585734:**~**$ ssh-keygen -f .ssh/id\_rsa

Generating public/private rsa key pair.

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in .ssh/id\_rsa.

Your public key has been saved in .ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:Onucqdjo6rdPsohwBGMpaOrf4HBaOmOuKD/FYFXurds s3108133@TOMSBC585734.local

The key's randomart image is:

+---[RSA 2048]----+

|     ..          |

|. . ..           |

|=+ .  .          |

|=oo  . .         |

|...o  . S        |

|..  o  o         |

|.o.=. =. o       |

|+\*X.+B ==        |

|O\*BB\*+\*oE        |

+----[SHA256]-----+

s3108133@TOMSBC585734:**~**$ cat .ssh/

id\_rsa       id\_rsa.pub   known\_hosts

s3108133@TOMSBC585734:**~**$ cat .ssh/

id\_rsa       id\_rsa.pub   known\_hosts

s3108133@TOMSBC585734:**~**$ cat .ssh/id\_rsa.pub

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDTjnBuDred6xqkamjrqEZgUIQY/YWXB/Hp+qV/LnWSWorPK12mkzvZQf3h3v+LtTkDWTwcPD3JTXqKbcUy5JvMxc56f2MBFBrmZu5HU5LwPdSD+rS1O1fZOa4GfCQQyWaVp1xtEXUCz9ldObjwWrhNbEvwCpTNRrwG0lHOQDEy/vQvhGqPGfObT4W4AnOiuZyNIG2geQsNKe88egGQ4d7JzpRIkqr9Azy653CEMt2J/NG9h6m4O60Ljv0ZkVyDJG4dCBgSCYyNjYa4Qzo1qhtRkfJF/Z3YscTbSFGcJNk2oX8+Qdwp7pTQ0VGet1e9C3WnrMuwOyq1We2SRnRUX0YR s3108133@TOMSBC585734.local

s3108133@TOMSBC585734:**~**$ kops create cluster --name=jeevanvarughese.com --state=s3://kops-state-jeev-ca --zones=ca-central-1a --node-count=2 --node-size=t2.micro --master-size=t2.micro --dns-zone=jeevanvarughese.com

I1028 23:09:10.663819   90780 create\_cluster.go:659] Inferred --cloud=aws from zone "ca-central-1a"

I1028 23:09:10.664011   90780 create\_cluster.go:845] Using SSH public key: /Users/s3108133/.ssh/id\_rsa.pub

I1028 23:09:11.915932   90780 subnets.go:183] Assigned CIDR 172.20.32.0/19 to subnet ca-central-1a

Previewing changes that will be made:

I1028 23:09:13.906663   90780 executor.go:91] Tasks: 0 done / 63 total; 34 can run

I1028 23:09:14.212687   90780 executor.go:91] Tasks: 34 done / 63 total; 12 can run

I1028 23:09:14.339102   90780 executor.go:91] Tasks: 46 done / 63 total; 15 can run

I1028 23:09:15.322187   90780 executor.go:91] Tasks: 61 done / 63 total; 2 can run

I1028 23:09:15.388243   90780 executor.go:91] Tasks: 63 done / 63 total; 0 can run

Will create resources:

  AutoscalingGroup/master-ca-central-1a.masters.jeevanvarughese.com

  MinSize             1

  MaxSize             1

  Subnets             [name:ca-central-1a.jeevanvarughese.com]

  Tags                {k8s.io/role/master: 1, Name: master-ca-central-1a.masters.jeevanvarughese.com, KubernetesCluster: jeevanvarughese.com}

  LaunchConfiguration name:master-ca-central-1a.masters.jeevanvarughese.com

  AutoscalingGroup/nodes.jeevanvarughese.com

  MinSize             2

  MaxSize             2

  Subnets             [name:ca-central-1a.jeevanvarughese.com]

  Tags                {k8s.io/role/node: 1, Name: nodes.jeevanvarughese.com, KubernetesCluster: jeevanvarughese.com}

  LaunchConfiguration name:nodes.jeevanvarughese.com

  DHCPOptions/jeevanvarughese.com

  DomainName          ca-central-1.compute.internal

  DomainNameServers   AmazonProvidedDNS

  EBSVolume/a.etcd-events.jeevanvarughese.com

  AvailabilityZone    ca-central-1a

  VolumeType          gp2

  SizeGB              20

  Encrypted           false

  Tags                {k8s.io/etcd/events: a/a, k8s.io/role/master: 1, Name: a.etcd-events.jeevanvarughese.com, KubernetesCluster: jeevanvarughese.com}

  EBSVolume/a.etcd-main.jeevanvarughese.com

  AvailabilityZone    ca-central-1a

  VolumeType          gp2

  SizeGB              20

  Encrypted           false

  Tags                {k8s.io/etcd/main: a/a, k8s.io/role/master: 1, Name: a.etcd-main.jeevanvarughese.com, KubernetesCluster: jeevanvarughese.com}

  IAMInstanceProfile/masters.jeevanvarughese.com

  IAMInstanceProfile/nodes.jeevanvarughese.com

  IAMInstanceProfileRole/masters.jeevanvarughese.com

  InstanceProfile     name:masters.jeevanvarughese.com id:masters.jeevanvarughese.com

  Role                name:masters.jeevanvarughese.com

  IAMInstanceProfileRole/nodes.jeevanvarughese.com

  InstanceProfile     name:nodes.jeevanvarughese.com id:nodes.jeevanvarughese.com

  Role                name:nodes.jeevanvarughese.com

  IAMRole/masters.jeevanvarughese.com

  ExportWithID        masters

  IAMRole/nodes.jeevanvarughese.com

  ExportWithID        nodes

  IAMRolePolicy/masters.jeevanvarughese.com

  Role                name:masters.jeevanvarughese.com

  IAMRolePolicy/nodes.jeevanvarughese.com

  Role                name:nodes.jeevanvarughese.com

  InternetGateway/jeevanvarughese.com

  VPC                 name:jeevanvarughese.com

  Shared              false

  Keypair/kops

  Subject             o=system:masters,cn=kops

  Type                client

  Keypair/kube-controller-manager

  Subject             cn=system:kube-controller-manager

  Type                client

  Keypair/kube-proxy

  Subject             cn=system:kube-proxy

  Type                client

  Keypair/kube-scheduler

  Subject             cn=system:kube-scheduler

  Type                client

  Keypair/kubecfg

  Subject             o=system:masters,cn=kubecfg

  Type                client

  Keypair/kubelet

  Subject             o=system:nodes,cn=kubelet

  Type                client

  Keypair/master

  Subject             cn=kubernetes-master

  Type                server

  AlternateNames      [100.64.0.1, 127.0.0.1, api.internal.jeevanvarughese.com, api.jeevanvarughese.com, kubernetes, kubernetes.default, kubernetes.default.svc, kubernetes.default.svc.cluster.local]

  LaunchConfiguration/master-ca-central-1a.masters.jeevanvarughese.com

  ImageID             kope.io/k8s-1.7-debian-jessie-amd64-hvm-ebs-2017-07-28

  InstanceType        t2.micro

  SSHKey              name:kubernetes.jeevanvarughese.com-27:e0:b7:ce:fa:9b:ee:60:79:6f:ea:33:d8:58:36:4d id:kubernetes.jeevanvarughese.com-27:e0:b7:ce:fa:9b:ee:60:79:6f:ea:33:d8:58:36:4d

  SecurityGroups      [name:masters.jeevanvarughese.com]

  AssociatePublicIP   true

  IAMInstanceProfile  name:masters.jeevanvarughese.com id:masters.jeevanvarughese.com

  RootVolumeSize      64

  RootVolumeType      gp2

  SpotPrice

  LaunchConfiguration/nodes.jeevanvarughese.com

  ImageID             kope.io/k8s-1.7-debian-jessie-amd64-hvm-ebs-2017-07-28

  InstanceType        t2.micro

  SSHKey              name:kubernetes.jeevanvarughese.com-27:e0:b7:ce:fa:9b:ee:60:79:6f:ea:33:d8:58:36:4d id:kubernetes.jeevanvarughese.com-27:e0:b7:ce:fa:9b:ee:60:79:6f:ea:33:d8:58:36:4d

  SecurityGroups      [name:nodes.jeevanvarughese.com]

  AssociatePublicIP   true

  IAMInstanceProfile  name:nodes.jeevanvarughese.com id:nodes.jeevanvarughese.com

  RootVolumeSize      128

  RootVolumeType      gp2

  SpotPrice

  ManagedFile/jeevanvarughese.com-addons-bootstrap

  Location            addons/bootstrap-channel.yaml

  ManagedFile/jeevanvarughese.com-addons-core.addons.k8s.io

  Location            addons/core.addons.k8s.io/v1.4.0.yaml

  ManagedFile/jeevanvarughese.com-addons-dns-controller.addons.k8s.io-k8s-1.6

  Location            addons/dns-controller.addons.k8s.io/k8s-1.6.yaml

  ManagedFile/jeevanvarughese.com-addons-dns-controller.addons.k8s.io-pre-k8s-1.6

  Location            addons/dns-controller.addons.k8s.io/pre-k8s-1.6.yaml

  ManagedFile/jeevanvarughese.com-addons-kube-dns.addons.k8s.io-k8s-1.6

  Location            addons/kube-dns.addons.k8s.io/k8s-1.6.yaml

  ManagedFile/jeevanvarughese.com-addons-kube-dns.addons.k8s.io-pre-k8s-1.6

  Location            addons/kube-dns.addons.k8s.io/pre-k8s-1.6.yaml

  ManagedFile/jeevanvarughese.com-addons-limit-range.addons.k8s.io

  Location            addons/limit-range.addons.k8s.io/v1.5.0.yaml

  ManagedFile/jeevanvarughese.com-addons-storage-aws.addons.k8s.io

  Location            addons/storage-aws.addons.k8s.io/v1.6.0.yaml

  Route/0.0.0.0/0

  RouteTable          name:jeevanvarughese.com

  CIDR                0.0.0.0/0

  InternetGateway     name:jeevanvarughese.com

  RouteTable/jeevanvarughese.com

  VPC                 name:jeevanvarughese.com

  RouteTableAssociation/ca-central-1a.jeevanvarughese.com

  RouteTable          name:jeevanvarughese.com

  Subnet              name:ca-central-1a.jeevanvarughese.com

  SSHKey/kubernetes.jeevanvarughese.com-27:e0:b7:ce:fa:9b:ee:60:79:6f:ea:33:d8:58:36:4d

  KeyFingerprint      1e:96:c5:8a:5e:59:38:13:87:16:09:c0:47:11:41:14

  Secret/admin

  Secret/kube

  Secret/kube-proxy

  Secret/kubelet

  Secret/system:controller\_manager

  Secret/system:dns

  Secret/system:logging

  Secret/system:monitoring

  Secret/system:scheduler

  SecurityGroup/masters.jeevanvarughese.com

  Description         Security group for masters

  VPC                 name:jeevanvarughese.com

  RemoveExtraRules    [port=22, port=443, port=4001, port=4789, port=179]

  SecurityGroup/nodes.jeevanvarughese.com

  Description         Security group for nodes

  VPC                 name:jeevanvarughese.com

  RemoveExtraRules    [port=22]

  SecurityGroupRule/all-master-to-master

  SecurityGroup       name:masters.jeevanvarughese.com

  SourceGroup         name:masters.jeevanvarughese.com

  SecurityGroupRule/all-master-to-node

  SecurityGroup       name:nodes.jeevanvarughese.com

  SourceGroup         name:masters.jeevanvarughese.com

  SecurityGroupRule/all-node-to-node

  SecurityGroup       name:nodes.jeevanvarughese.com

  SourceGroup         name:nodes.jeevanvarughese.com

  SecurityGroupRule/https-external-to-master-0.0.0.0/0

  SecurityGroup       name:masters.jeevanvarughese.com

  CIDR                0.0.0.0/0

  Protocol            tcp

  FromPort            443

  ToPort              443

  SecurityGroupRule/master-egress

  SecurityGroup       name:masters.jeevanvarughese.com

  CIDR                0.0.0.0/0

  Egress              true

  SecurityGroupRule/node-egress

  SecurityGroup       name:nodes.jeevanvarughese.com

  CIDR                0.0.0.0/0

  Egress              true

  SecurityGroupRule/node-to-master-tcp-1-4000

  SecurityGroup       name:masters.jeevanvarughese.com

  Protocol            tcp

  FromPort            1

  ToPort              4000

  SourceGroup         name:nodes.jeevanvarughese.com

  SecurityGroupRule/node-to-master-tcp-4003-65535

  SecurityGroup       name:masters.jeevanvarughese.com

  Protocol            tcp

  FromPort            4003

  ToPort              65535

  SourceGroup         name:nodes.jeevanvarughese.com

  SecurityGroupRule/node-to-master-udp-1-65535

  SecurityGroup       name:masters.jeevanvarughese.com

  Protocol            udp

  FromPort            1

  ToPort              65535

  SourceGroup         name:nodes.jeevanvarughese.com

  SecurityGroupRule/ssh-external-to-master-0.0.0.0/0

  SecurityGroup       name:masters.jeevanvarughese.com

  CIDR                0.0.0.0/0

  Protocol            tcp

  FromPort            22

  ToPort              22

  SecurityGroupRule/ssh-external-to-node-0.0.0.0/0

  SecurityGroup       name:nodes.jeevanvarughese.com

  CIDR                0.0.0.0/0

  Protocol            tcp

  FromPort            22

  ToPort              22

  Subnet/ca-central-1a.jeevanvarughese.com

  VPC                 name:jeevanvarughese.com

  AvailabilityZone    ca-central-1a

  CIDR                172.20.32.0/19

  Shared              false

  Tags                {Name: ca-central-1a.jeevanvarughese.com, kubernetes.io/cluster/jeevanvarughese.com: owned, KubernetesCluster: jeevanvarughese.com}

  VPC/jeevanvarughese.com

  CIDR                172.20.0.0/16

  EnableDNSHostnames  true

  EnableDNSSupport    true

  Shared              false

  Tags                {kubernetes.io/cluster/jeevanvarughese.com: owned, KubernetesCluster: jeevanvarughese.com, Name: jeevanvarughese.com}

  VPCDHCPOptionsAssociation/jeevanvarughese.com

  VPC                 name:jeevanvarughese.com

  DHCPOptions         name:jeevanvarughese.com

Must specify --yes to apply changes

Cluster configuration has been created.

Suggestions:

 \* list clusters with: kops get cluster

 \* edit this cluster with: kops edit cluster jeevanvarughese.com

 \* edit your node instance group: kops edit ig --name=jeevanvarughese.com nodes

 \* edit your master instance group: kops edit ig --name=jeevanvarughese.com master-ca-central-1a

Finally configure your cluster with: kops update cluster jeevanvarughese.com --yes

s3108133@TOMSBC585734:**~**$ kops update cluster jeevanvarughese.com --yes

State Store: Required value: Please set the --state flag or export KOPS\_STATE\_STORE.

A valid value follows the format s3://<bucket>.

A s3 bucket is required to store cluster state information.

s3108133@TOMSBC585734:**~**$ kops update cluster jeevanvarughese.com --yes --state s3://kops-state-jeev-ca

I1028 23:11:21.587763   90801 executor.go:91] Tasks: 0 done / 63 total; 34 can run

I1028 23:11:22.022599   90801 vfs\_castore.go:422] Issuing new certificate: "kubelet"

I1028 23:11:22.163598   90801 vfs\_castore.go:422] Issuing new certificate: "kube-scheduler"

I1028 23:11:22.167693   90801 vfs\_castore.go:422] Issuing new certificate: "kube-controller-manager"

I1028 23:11:22.199213   90801 vfs\_castore.go:422] Issuing new certificate: "master"

I1028 23:11:22.276405   90801 vfs\_castore.go:422] Issuing new certificate: "kube-proxy"

I1028 23:11:22.329048   90801 vfs\_castore.go:422] Issuing new certificate: "kops"

I1028 23:11:22.410561   90801 vfs\_castore.go:422] Issuing new certificate: "kubecfg"

I1028 23:11:22.918333   90801 executor.go:91] Tasks: 34 done / 63 total; 12 can run

I1028 23:11:23.551386   90801 executor.go:91] Tasks: 46 done / 63 total; 15 can run

I1028 23:11:24.061852   90801 launchconfiguration.go:327] waiting for IAM instance profile "nodes.jeevanvarughese.com" to be ready

I1028 23:11:24.105251   90801 launchconfiguration.go:327] waiting for IAM instance profile "masters.jeevanvarughese.com" to be ready

I1028 23:11:34.548042   90801 executor.go:91] Tasks: 61 done / 63 total; 2 can run

I1028 23:11:35.022266   90801 executor.go:91] Tasks: 63 done / 63 total; 0 can run

I1028 23:11:35.022334   90801 dns.go:152] Pre-creating DNS records

I1028 23:11:35.574917   90801 update\_cluster.go:247] Exporting kubecfg for cluster

Kops has set your kubectl context to jeevanvarughese.com

Cluster is starting.  It should be ready in a few minutes.

Suggestions:

 \* validate cluster: kops validate cluster

 \* list nodes: kubectl get nodes --show-labels

 \* ssh to the master: ssh -i ~/.ssh/id\_rsa admin@api.jeevanvarughese.com

The admin user is specific to Debian. If not using Debian please use the appropriate user based on your OS.

 \* read about installing addons: https://github.com/kubernetes/kops/blob/master/docs/addons.md