Create user in k8s

```
root@Nilam:user# openssl genpkey -out nilam.key -algorithm Ed25519
root@Nilam:user# cat nilam.key
-----BEGIN PRIVATE KEY-----
MC4CAQAwBQYDK2VwBCIEIPX9tieFtSyo2fOQv5SmSzql6GlB2gp9LSb9mwqAy2xz
-----END PRIVATE KEY-----
root@Nilam:user#
```

```
root@Nilam:user# openssl req -new -key nilam.key -out nilam.csr -subj "/CN=nilam,/O=edit"
root@Nilam:user#
root@Nilam:user#
root@Nilam:user#
root@Nilam:user# cat nilam.csr | base64 | tr -d "\n"
LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSBSRVFVRVNULS0tLS0KTUlHZk1GTUNBUUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFLREFSbFpHbDBNQ293QlFZR
ApLMlZ3QXlFQXBKQW83RmoxWGxWN0czMnJjSldjQkY0cmtBdzdPbzJyaDJnek9PVFFySVNnQURBRkJnTXJaWEFEClFRQVNwQllHaUlsSER0a0FRQUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFLREFSbFpHbDBNQ293QlFZR
JPZGRuZlpZVEdTMUxyMGxSRXJqd24vNHIwYXFWNE0KNUh0SFBpeThEWEJESS9aMkJaR21RM2tLCi0tLS0tRU5EIENFUlRJRklDQVRFIFJFUVVFU1QtLS0tLQo=root@Nilam:
user# ll
```

```
user# ll
total 0
drwxrwxrwx 1 nilam nilam 512 Feb 29 12:25 ./
drwxrwxrwx 1 nilam nilam 512 Feb 29 11:24 ../
-rwxrwxrwx 1 nilam nilam 290 Feb 29 12:25 nilam.csr*
-rwxrwxrwx 1 nilam nilam 119 Feb 29 12:25 nilam.key*
```

```
root@Nilam:user# cat nilam.csr
-----BEGIN CERTIFICATE REQUEST-----
MIGfMFMCAQAwIDEPMA0GA1UEAwwGbmlsYW0sMQ0wCwYDVQQKDARlZGl0MCowBQYD
K2VwAyEApJAo7Fj1XlV7G32rcJWcBF4rkAw7Oo2rh2gzOOTQrISgADAFBgMrZXAD
QQASpBYGiIlHDtkAQ+3Urh+Boae1fBvAqbOddnfZYTGS1Lr0lRErjwn/4r0aqV4M
5HtHPiy8DXBDI/Z2BZGmQ3kK
-----END CERTIFICATE REQUEST-----
```

```
root@Nilam:user# cat certificate.yaml
apiVersion: certificates.k8s.io/v1
kind: CertificateSigningRequest
metadata:
  name: nilam
spec:
  request: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSBSRVFVRVNULS0tLS0KTUlHZk1GTUNBUUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFLREFSbFpHbD
BNQ293QlFZRApLMlZ3QXlFQXBKQW83RmoxWGxWN0czMnJjSldjQkY0cmtBdzdPbzJyaDJnek9PVFFySVNnQURBRkJnTXJaWEFEClFRQVNwQllHaUlsSER0a0FRQUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFLREFSbFpHbD
BNQ293QlFZRkzMnJjSldjQkY0cmtBdzdPbzJyaDJnek9PVFFySVNnQURBRkJnTXJaWEFEClFRQVNwQllHaUlsSER0a0FRQUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFLREFSbFpHbD
hZTFmQnZBcWJPZGRuZlpZVEdTMUxyMGxSRXJqd24vNHIwYXFWNE0KNUh0SFBpeThEWEJESS9aMkJaR21RM2tLCi0tLS0tRU5EIENFUlRJRklDQVRFIFJFUVVFU1QtLS0tLQo=
  signerName: kubernetes.io/kube-apiserver-client
  expirationSeconds: 86400  # one day
  usages:
  - client auth
root@Nilam:user#
```

```
root@Nilam:user#
root@Nilam:user# kubectl apply -f certificate.yaml
certificatesigningrequest.certificates.k8s.io/nilam configured
root@Nilam:user#
root@Nilam:user#
root@Nilam:user#
root@Nilam:user# kubectl certificate approve nilam
certificatesigningrequest.certificates.k8s.io/nilam approved
root@Nilam:user#
```

```
root@Nilam:user#
root@Nilam:user# kubectl describe csr/nilam
Name:           nilam
Labels:         <none>
Annotations:    kubectl.kubernetes.io/last-applied-configuration={"apiVersion":"certificates.k8s.io/v1","kind":"CertificateSigningReque
st","metadata":{"annotations":{},"name":"nilam"},"spec":{"expirationSeconds":86400,"request":"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSBSRVFVRVN
ULS0tLS0KTUlHZk1GTUNBUUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFLREFSbFpHbDBNQ293QlFZRApLMlZ3QXlFQXBKQW83RmoxWGxWN0czMnJjSldj
QkY0cmtBdzdPbzJyaDJnek9PVFFySVNnQURBRkJnTXJaWEFEClFRQVNwQllHaUlsSER0a0FRQUF3SURFUE1BMEdBMVVFQXd3R2JtbHNZVzBzTVEwd0N3WURWUVFL
E0KNUh0SFBpeThEWEJESS9aMkJaR21RM2tLCi0tLS0tRU5EIENFUlRJRklDQVRFIFJFUVVFU1QtLS0tLQo=","signerName":"kubernetes.io/kube-apiserver-clien
t","usages":["client auth"]}}

CreationTimestamp:  Thu, 29 Feb 2024 12:01:47 +0530
Requesting User:    kubernetes-admin
Signer:             kubernetes.io/kube-apiserver-client
Requested Duration: 24h
Status:             Approved,Issued
Subject:
        Common Name:    nilam,
        Serial Number:
        Organization:   edit
Events:  <none>
root@Nilam:user#
```

```
root@Nilam:user# kubectl get csr nilam -o 'jsonpath={.status.certificate}' | base64 -d > nilam.crt
root@Nilam:user#
root@Nilam:user#
root@Nilam:user#
```

```
root@Nilam:user#  cp /mnt/c/Users/manis/Music/k8s_user/k8sCluster_kubeadm_terraform/meet-flounder.conf nilam-kube-config
root@Nilam:user#
root@Nilam:user#
root@Nilam:user# kubectl config get-clusters
NAME
kubernetes
root@Nilam:user#
```

```
root@Nilam:user# kubectl --kubeconfig nilam-kube-config config set-credentials nilam --client-key nilam.key --client-certificate nila
m.csr --embed-certs=true
User "nilam" set.
root@Nilam:user#
```

```
root@Nilam:user# ll
total 16
drwxrwxrwx 1 nilam nilam  512 Feb 29 12:32 ./
drwxrwxrwx 1 nilam nilam  512 Feb 29 11:24 ../
-rwxrwxrwx 1 nilam nilam  611 Feb 29 12:27 certificate.yaml*
-rwxrwxrwx 1 nilam nilam 6265 Feb 29 12:32 nilam-kube-config*
-rwxrwxrwx 1 nilam nilam  769 Feb 29 12:29 nilam.crt*
-rwxrwxrwx 1 nilam nilam  290 Feb 29 12:25 nilam.csr*
-rwxrwxrwx 1 nilam nilam  119 Feb 29 12:25 nilam.key*
```

```
root@Nilam:user#
root@Nilam:user# kubectl --kubeconfig=nilam-kube-config config set-context nilam --cluster=kubernetes --user=nilam
Context "nilam" created.
root@Nilam:user#
```

```
root@Nilam:user#
root@Nilam:user# kubectl create role pod-manager-01 --verb=create,list,get --resource=pods --namespace=default
role.rbac.authorization.k8s.io/pod-manager-01 created
root@Nilam:user#
```

```
root@Nilam:user#
root@Nilam:user#
root@Nilam:user# kubectl create clusterrolebinding nilam-pod-manager-01 --clusterrole=pod-manager-01 --user=nilam
clusterrolebinding.rbac.authorization.k8s.io/nilam-pod-manager-01 created
```

```
root@Nilam:user# realpath nilam-kube-config
/mnt/c/Users/manis/Music/k8s_user/k8sCluster_kubeadm_terraform/user/nilam-kube-config
root@Nilam:user#
root@Nilam:user# export KUBECONFIG=/mnt/c/Users/manis/Music/k8s_user/k8sCluster_kubeadm_terraform/user/nilam-kube-config
root@Nilam:user#
root@Nilam:user# kgn'
> ^C
root@Nilam:user# kgn
NAME         STATUS   ROLES           AGE    VERSION
master       Ready    control-plane   91m    v1.28.2
worker-0     Ready    <none>          91m    v1.28.2
worker-1     Ready    <none>          91m    v1.28.2
root@Nilam:user#
```

Other user config

```
root@Nilam:user# realpath saniya-kube-config
/mnt/c/Users/manis/Music/k8s_user/k8sCluster_kubeadm_terraform/user/saniya-kube-config
root@Nilam:user# export KUBECONFIG=/mnt/c/Users/manis/Music/k8s_user/k8sCluster_kubeadm_terraform/user/saniya-kube-config
root@Nilam:user# kgn
NAME         STATUS   ROLES           AGE    VERSION
master       Ready    control-plane   64m    v1.28.2
worker-0     Ready    <none>          64m    v1.28.2
worker-1     Ready    <none>          64m    v1.28.2
root@Nilam:user#
```