

Create User

Create Certificate

Get Certificate Key

```
openssl genrsa -out <USER>.key 2048
```

Create CertificateSigningRequest file

```
openssl req -new -key <USER>.key -subj "/CN=<USER>" -out <USER>.csr
```

```
base64 <USER>.csr -w 0
```

Create CSR Kubernetes Resource

<USER>-csr.yaml

```
apiVersion: certificates.k8s.io/v1
kind: CertificateSigningRequest
metadata:
  name: <USER>
spec:
  request: <BASE64 .csr file>
  signerName: kubernetes.io/kube-apiserver-client
  usages:
    - client auth
```

Apply CertificateSigningRequest

```
kubectl apply -f <USER>-csr.yaml
```

Approve CertificateSigningRequest

```
kubectl certificate approve <USER>
```

Get info of your CSR

```
kubectl get csr
```

Get Certificate

```
kubectl get csr <USER> -o yaml | grep certificate: | cut -c 16- | base64 --decode > <USER>.crt
```

Create kubeconfig file

Get certificate-authority-data (CAD)

```
kubectl config view --flatten=true | grep "certificate-authority-data:" | cut -c 33-
```

Get CLUSTER URL

```
kubectl cluster-info | grep "Kube" | cut -c 51-
```

Get client-certificate-data

```
base64 <USER>.crt -w 0
```

Get client-key-data

```
base64 <USER>.key -w 0
```

Connect to cluster

<USER>.yaml

```
apiVersion: v1
clusters:
- cluster:
  certificate-authority-data: <CAD>
  server: <CLUSTER URL>
  name: kubernetes
contexts:
- context:
  cluster: kubernetes
  user: <USER>
  name: <USER>@kubernetes
current-context: <USER>@kubernetes
kind: Config
preferences: {}
users:
```

```
- name: <USER>
  user:
    client-certificate-data: <BASE64 .CRT FILE>
    client-key-data: <BASE64 .KEY FILE>
```

```
kubectl --kubeconfig <USER>.yaml get pods
```

If you get

```
Error from server (Forbidden): pods is forbidden: User "<USER>" cannot list resource "pods"
in API group "" in the namespace "default"
```

User is created

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