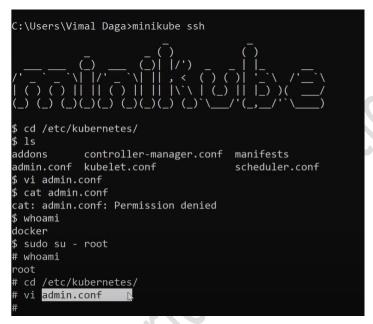


Summary

- kubeconfig file contains two things
 - o URL of the cluster IP address & port number
 - Username & password of the user
- Admin. config file gives unlimited power to the user



- Cryptography has two types of key
 - o Symmetric key:-Same key is used for locking & unlocking
 - o Asymmetric key:- Different keys are used for locking & unlocking
- The public key & private key are used for encryption & authentication
- In encryption public key is used for encryption & private key is used for decryption
- In authentication private key is used for encryption & public key is used for decryption

Creating a private key in the minikube server

```
# cd /etc/kubernetes/
# cd /etc/kubernetes/
# ls
addons controller-manager.conf manifests
admin.conf kubelet.conf scheduler.conf
# openssl getrsa 128
Invalid command 'getrsa'; type "help" for a list.
# openssl genrsa 128
Generating RSA private key, 128 bit long modulus (2 primes)
139967377610560:error:04081078:rsa routines:rsa_builtin_keygen:key size too sm
# opensll genrsa -out vimal.key 1024
-bash: opensll: command not found
# openssl genrsa -out vimal.key 1024
Generating RSA private key, 1024 bit long modulus (2 primes)
......++++
e is 65537 (0x010001)
# _______
```

 For validation certificate signing request (CSR) is sent to CA for signature known as CRT

```
-new -key vimal.key
# openssl req
                                        -out vimal.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:IN
State or Province Name (full name) [Some-State]:raj
Locality Name (eg, city) []:jaipur
Organization Name (eg, company) [Internet Widgits Pty Ltd]:LW
Organizational Unit Name (eg, section) []:tech
Common Name (e.g. server FQDN or YOUR name) []:vimal
Email Address []:
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

• A common name is used to uniquely identify the certificate