Installing Minikube in windows 11

Requirement:

1.Install Docker 18.09 or higher
2.WSL 2 install (https://learn.microsoft.com/en-us/windows/wsl/install)
3.Turn on following windows features

Turn Windows features on or off

To turn a feature on, select its check box. To turn a feature off, clear it

- ⊞ ☐ .NET Framework 3.5 (includes .NET 2.0 and 3.0)
- ⊞ ⊟ .NET Framework 4.8 Advanced Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Containers
- ☐ Data Center Bridging
- ⊞ ☐ Device Lockdown
- ☐ Guarded Host
- ⊞ ☐ Hyper-V
- ⊞ ☐ Internet Information Services
- ☐ Internet Information Services Hostable Web Core
- ⊞ ☐ Legacy Components
- ⊞ ☑ Media Features
- ☐ Microsoft Defender Application Guard
- ⊞ ☐ Microsoft Message Queue (MSMQ) Server
- ☑ Microsoft Print to PDF
- ☐ Microsoft XPS Document Writer
- ⊞ ☐ MultiPoint Connector
- ⊞ ⊟ Print and Document Services
- ☑ Remote Differential Compression API Support
- ⊞ ☐ Services for NFS
- ☐ Simple TCPIP services (i.e. echo, daytime etc)
- ⊞ ☐ SMB 1.0/CIFS File Sharing Support
- ☑ SMB Direct
- ☐ Telnet Client
- ☐ TFTP Client
- ☑ Virtual Machine Platform
- ☑ Windows Hypervisor Platform
- ☐ Windows Identity Foundation 3.5
- ⊞ ☑ Windows PowerShell 2.0
- ⊞ ☐ Windows Process Activation Service
- ☐ Windows Projected File System
- ☐ Windows Sandbox
- ☑ Windows Subsystem for Linux
- ☐ Windows TIFF IFilter
- ☑ Work Folders Client

install Minikube

```
Administrator: Windows PowerShell

PS C:\WINDOWS\system32> choco install minikube
Chocolatey v2.2.2
Installing the following packages:
minikube
By installing, you accept licenses for the packages.
Progress: Downloading kubernetes-cli 1.29.1... 100%

kubernetes-cli v1.29.1 [Approved]
kubernetes-cli package files install completed. Performing other installation steps.
The package kubernetes-cli wants to run 'chocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): Y

Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-cli\tools\kubernetes-client-windows-amd64.tar.gz to C:\ProgramData\chocolatey\lib\kubernetes-cli\tools...
C:\ProgramData\chocolatey\lib\kubernetes-cli\tools
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-cli\tools\kubernetes-client-windows-amd64.tar to C:\ProgramData\chocolatey\lib\kubernetes-cli\tools...
C:\ProgramData\chocolatey\lib\kubernetes-cli\tools
 ShimGen has successfully created a shim for kubectl-convert.exe
 ShimGen has successfully created a shim for kubectl.exe
 The install of kubernetes-cli was successful.
  Software installed to 'C:\ProgramData\chocolatey\lib\kubernetes-cli\tools'
Progress: Downloading minikube 1.32.0... 100%

Minikube v1.32.0 [Approved]
Minikube package files install completed. Performing other installation steps.
 ShimGen has successfully created a shim for minikube.exe
 The install of Minikube was successful.
  Software installed to 'C:\ProgramData\chocolatey\lib\minikube'

Chocolatey installed 2/2 packages.
 See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Did you know the proceeds of Pro (and some proceeds from other
 licensed editions) go into bettering the community infrastructure?
 Your support ensures an active community, keeps Chocolatey tip-top,
 plus it nets you some awesome features!
  https://chocolatey.org/compare
```

Creating Namespaces

```
Administrator: Windows PowerShell

PS C:\WINDOWS\system32> minikube start
W0401 16:03:59.978518    2996 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context
3a33f0688f\meta.json: The system cannot find the path specified.
* minikube v1.32.0 on Microsoft Windows 11 Pro 10.0.22631.3296 Build 22631.3296
* Using the docker driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Updating the running docker "minikube" container ...
* Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
* Verifying Kubernetes components...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
PS C:\WINDOWS\system32> kubectl get po -A
NAMESPACE     NAME                               READY   STATUS    RESTARTS       AGE
kube-system   coredns-5dd5756b68-mfv5c           1/1     Running   1 (16s ago)    6m28s
kube-system   etcd-minikube                      0/1     Running   1 (21s ago)    6m40s
kube-system   kube-apiserver-minikube            0/1     Running   1 (11s ago)    6m40s
kube-system   kube-controller-manager-minikube   0/1     Running   1 (21s ago)    6m40s
kube-system   kube-proxy-kjmqc                    1/1     Running   1 (21s ago)    6m28s
kube-system   kube-scheduler-minikube            0/1     Running   1 (21s ago)    6m41s
kube-system   storage-provisioner                1/1     Running   2 (21s ago)    6m39s
PS C:\WINDOWS\system32> kubectl create namespace production
namespace/production created
PS C:\WINDOWS\system32> kubectl get po -A
NAMESPACE     NAME                               READY   STATUS    RESTARTS       AGE
kube-system   coredns-5dd5756b68-mfv5c           1/1     Running   1 (32s ago)    6m44s
kube-system   etcd-minikube                      1/1     Running   1 (37s ago)    6m56s
kube-system   kube-apiserver-minikube            1/1     Running   1 (27s ago)    6m56s
kube-system   kube-controller-manager-minikube   1/1     Running   1 (37s ago)    6m56s
kube-system   kube-proxy-kjmqc                    1/1     Running   1 (37s ago)    6m44s
kube-system   kube-scheduler-minikube            1/1     Running   1 (37s ago)    6m57s
kube-system   storage-provisioner                1/1     Running   2 (37s ago)    6m55s
PS C:\WINDOWS\system32> kubectl get namespaces
NAME              STATUS   AGE
default           Active   7m25s
kube-node-lease   Active   7m25s
kube-public       Active   7m25s
kube-system       Active   7m25s
production        Active   31s
PS C:\WINDOWS\system32>
```