

Setup minikube at your local and explore creating namespace

How to install Kubernetes

Follow the below link for installing minikub:

<https://minikube.sigs.k8s.io/docs/start/?arch=%2Fmacos%2Farm64%2Fstable%2Fbinary+download>

Am using chocolatey to install minikube on windows

Click on the buttons that describe your target platform. For other architectures, see [the release page](#) for a complete list of minikube binaries.

Operating system

Linux

macOS

Windows

Architecture

x86-64

Release type

Stable

Installer type

.exe download

Windows Package Manager

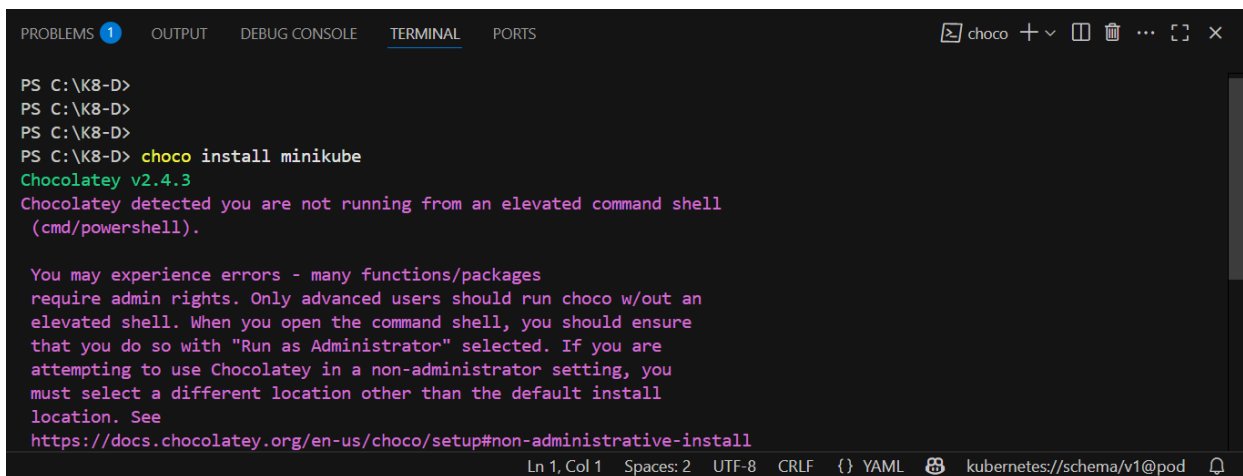
Chocolatey

To install the latest minikube **stable** release on **x86-64 Windows** using **Chocolatey**:

If the [Chocolatey Package Manager](#) is installed, use the following command:

```
choco install minikube
```

Copied!



```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\K8-D>
PS C:\K8-D>
PS C:\K8-D>
PS C:\K8-D> choco install minikube
Chocolatey v2.4.3
Chocolatey detected you are not running from an elevated command shell
(cmd/powershell).

You may experience errors - many functions/packages
require admin rights. Only advanced users should run choco w/out an
elevated shell. When you open the command shell, you should ensure
that you do so with "Run as Administrator" selected. If you are
attempting to use Chocolatey in a non-administrator setting, you
must select a different location other than the default install
location. See
https://docs.chocolatey.org/en-us/choco/setup#non-administrative-install
Ln 1, Col 1 Spaces: 2 UTF-8 CRLF {} YAML kubernetes://schema/v1@pod
```

```

Do you want to continue?([Y]es/[N]o): yes

Installing the following packages:
minikube
By installing, you accept licenses for the packages.
Minikube v1.36.0 already installed.
Use --force to reinstall, specify a version to install, or try upgrade.

Chocolatey installed 0/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Warnings:
- Minikube - Minikube v1.36.0 already installed.
Use --force to reinstall, specify a version to install, or try upgrade.
PS C:\K8-D>

```

Installing kubect

<https://kubernetes.io/docs/tasks/tools/install-kubectl-windows/>

Kubectl is installed

```

🔥 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
PS C:\K8-D> curl.exe -LO "https://dl.k8s.io/release/v1.33.0/bin/windows/amd64/kubectl.exe"
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 138 100 138    0     0  118      0  0:00:01  0:00:01 --:--:-- 118
100 58.8M 100 58.8M    0     0 1916k      0  0:00:31  0:00:31 --:--:-- 2135k
PS C:\K8-D> kubectl version --client
Client Version: v1.33.2
Kustomize Version: v5.6.0
PS C:\K8-D>

```

Start your cluster

Minikube start

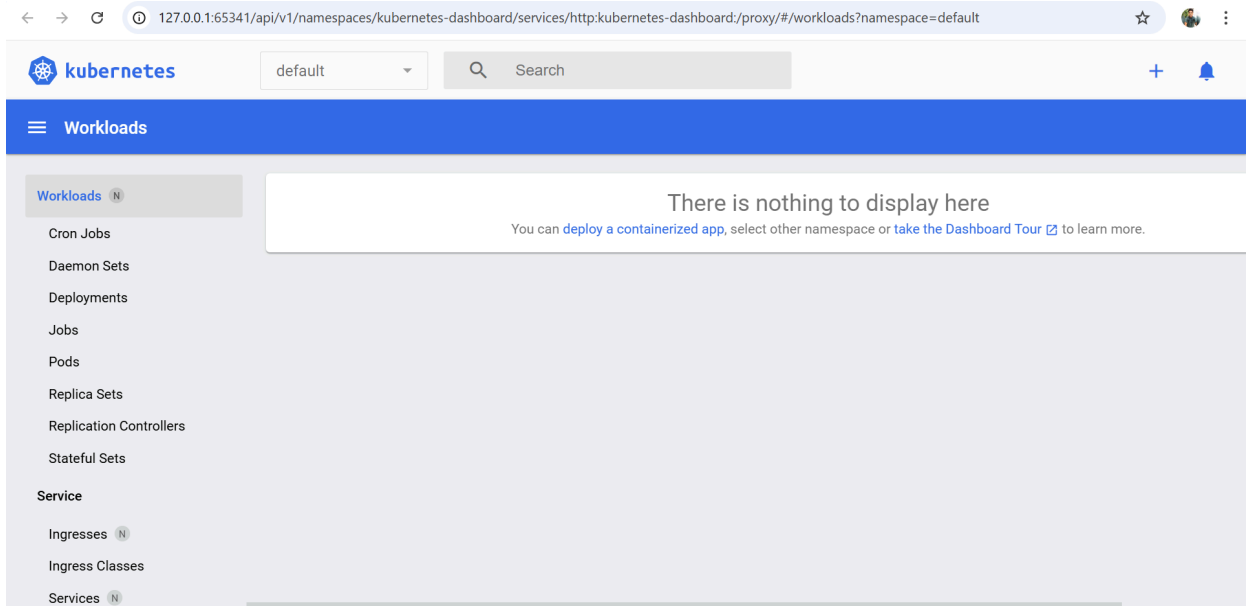
Minikube status

Minikube dashboard

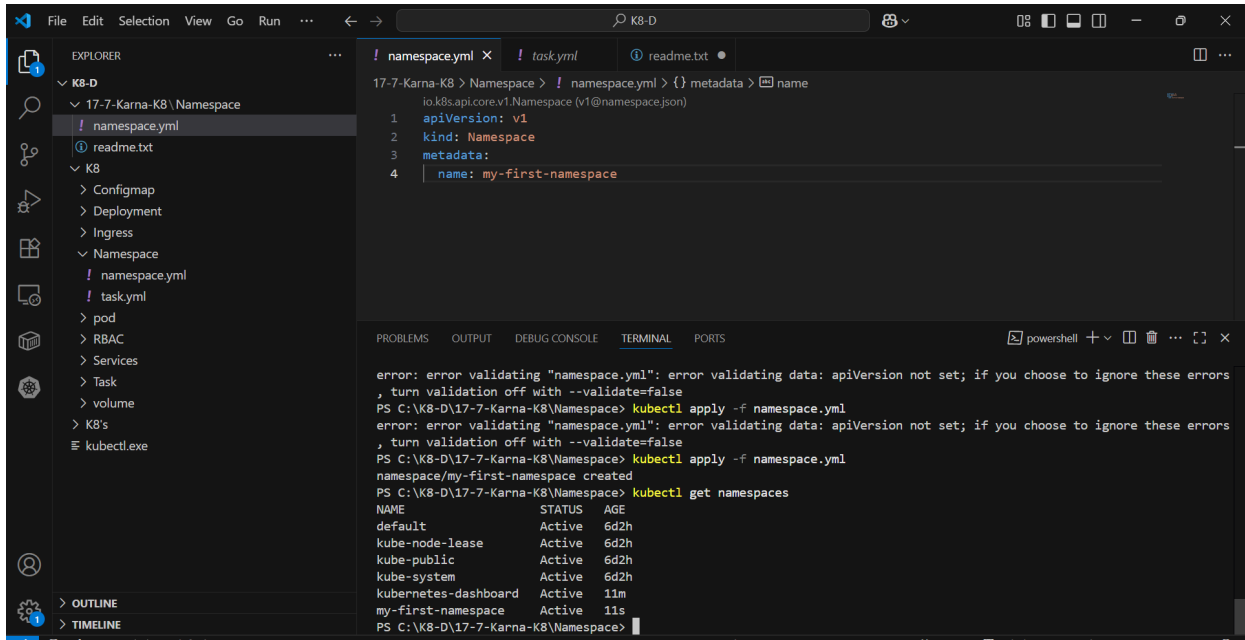
```
PS C:\K8-D> minikube start
🌟 minikube v1.36.0 on Microsoft Windows 11 Pro 10.0.26100.4652 Build 26100.4652
👉 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
📦 Pulling base image v0.0.47 ...
🔄 Restarting existing docker container for "minikube" ...
❗ Failing to connect to https://registry.k8s.io/ from inside the minikube container
💡 To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
🔧 Preparing Kubernetes v1.33.1 on Docker 28.1.1 ...
🔍 Verifying Kubernetes components...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: default-storageclass, storage-provisioner
🎉 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

```
PS C:\K8-D> minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

PS C:\K8-D> minikube dashboard
🔧 Enabling dashboard ...
  ▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
  ▪ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
💡 Some dashboard features require the metrics-server addon. To enable all features please run:
```



Exploring creating namespace



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