

# Installing Minikube

## Windows 10/11

### Install Windows Subsystem for linux, WSL

Control Panel > Add/remove Windows Components:

- Hyper-v
- Virtual machine platform
- Windows hypervisor platform
- Windows sub system for linux

or Open PowerShell as Administrator and execute these commands:

```
1 wsl --install
2 #Restart the computer
3 wsl --update
4 #Restart the computer
5 wsl --set-default-version 2
```

### Download Docker Desktop for Windows

[https://desktop.docker.com/win/main/amd64/Docker Desktop Installer.exe](https://desktop.docker.com/win/main/amd64/Docker%20Desktop%20Installer.exe)

### Run the installer

- When prompted, ensure the **Use WSL 2 instead of Hyper-V** option on the Configuration page is selected or not depending on your choice of backend.
- When the installation is successful, click **Close** to complete the installation process.

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### Install Minikube for Windows

Open PowerShell as Administrator and run this command

```
New-Item -Path 'c:\' -Name 'minikube' -ItemType Directory -Force
```

```
Invoke-WebRequest -OutFile 'c:\minikube\minikube.exe' -Uri
'https://github.com/kubernetes/minikube/releases/latest/download/minikube-windows-amd64.exe' -UseBasicParsing
```

### Add the minikube.exe binary to your PATH

The following is a single command:

```
$oldPath = [Environment]::GetEnvironmentVariable('Path', [EnvironmentVariableTarget]::Machine)
if ($oldPath.Split(';') -notcontains 'C:\minikube'){ [Environment]::SetEnvironmentVariable('Path',
$('{0};C:\minikube' -f $oldPath), [EnvironmentVariableTarget]::Machine)
}
```

## Restart PowerShell

### Start minikube cluster

```
1 minikube start
```

You may see an output like this:

```
1 PS C:\Windows\system32> minikube start
2 * minikube v1.30.1 on Microsoft Windows 11 Enterprise 10.0.22621.1555 Build 22621.1555
3 * Automatically selected the docker driver. Other choices: hyperv, virtualbox, ssh
4 * Using Docker Desktop driver with root privileges
5 * Starting control plane node minikube in cluster minikube
6 * Pulling base image ...
7 * Downloading Kubernetes v1.26.3 preload ...
8   > preloaded-images-k8s-v18-v1...: 397.02 MiB / 397.02 MiB 100.00% 5.36 Mi
9   > gcr.io/k8s-minikube/kicbase...: 373.53 MiB / 373.53 MiB 100.00% 3.52 Mi
10 * Creating docker container (CPUs=2, Memory=3500MB) ...
11 * Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
12   - Generating certificates and keys ...
13   - Booting up control plane ...
14   - Configuring RBAC rules ...
15 * Configuring bridge CNI (Container Networking Interface) ...
16   - Using image gcr.io/k8s-minikube/storage-provisioner:v5
17 * Verifying Kubernetes components...
18 * Enabled addons: storage-provisioner, default-storageclass
19 * Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```