

Installation Minikube – Windows 10

1. Installation kubectl

- a. Download last version of kubectl <https://kubernetes.io/docs/tasks/tools/install-kubectl/>:

Install kubectl on Windows [↗](#)

Install kubectl binary with curl on Windows

1. Download the latest release v1.20.0.

Or if you have `curl` installed, use this command:

```
curl -LO https://dl.k8s.io/release/v1.20.0/bin/windows/amd64/kubectl.exe
```

Note: To find out the latest stable version (for example, for scripting), take a look at <https://dl.k8s.io/release/stable.txt>.

2. Validate the binary (optional)

- b. Create folder „kubectl“ in C:\Program Files
- c. Copy kubectl.exe in C: \Program Files\kubectl
- d. Add C: \Program Files\kubectl to environment variable PATH
- e. Check: *kubectl version --client*

2. Installation minikube

- a. Go to latest release on <https://github.com/kubernetes/minikube>
- b. Download minikube-installer.exe
- c. Installation – Follow the instructions of the installation assistant

3. Enable Hyper-V

- a. Hyper-V is an optional feature built in Windows 10. Hyper-V is only available in 64-Windows 10 Pro, Enterprise or Education. For Windows 10 Home Edition Hyper-V is not available.
- b. Check if Hyper-V is available and enabled/disabled:
 - Open command line as admin: Windows + R -> *cmd* -> Ctrl + Shift + Enter
 - *systeminfo*
 - If requirements are listed -> Hyper-V is available and disabled

```
Hyper-V Requirements:      VM Monitor Mode Extensions: Yes
                           Virtualization Enabled In Firmware: Yes
                           Second Level Address Translation: Yes
                           Data Execution Prevention Available: Yes
```

- c. *bcdedit /set hypervisorlaunchtype auto*
- d. Go to Apps und Features -> Optional features -> More Windows features -> Activate Hyper-V
- e. Reboot system
- f. Check that Hyper-V is enabled in command line: *systeminfo*
- g. Start minikube with Hyper-V:
 - Open command line as admin
 - *minikube start*
 - *kubectl get nodes*
 - *minikube stop*

4. Installation Virtualbox

- a. Disable Hyper-V:
 - Open command line as admin
 - `bcdedit /set hypervisorlaunchtype off`
 - Go to Apps und Features -> Optional features -> More Windows features -> Deactivate Hyper-V
- b. Reboot system
- c. Check that Hyper-V is disabled: command line -> `systeminfo`
- d. Download Virtualbox installation assistant:

<https://www.virtualbox.org/wiki/Downloads>



- e. Installation – Follow the instructions of the installation assistant
- f. Start minikube with Virtualbox:
 - Open command line
 - Remove old minikube cluster with Hyper-V in case it was created before: `minikube delete`
 - `minikube start`
 - `kubectl get nodes`
 - `minikube stop`

Installation Minikube – Linux/macOS

On <https://kubernetes.io/de/docs/tasks/tools/install-minikube/> there is detailed instructions for installing minikube on Linux distributions and macOS.