



What is Minikube?

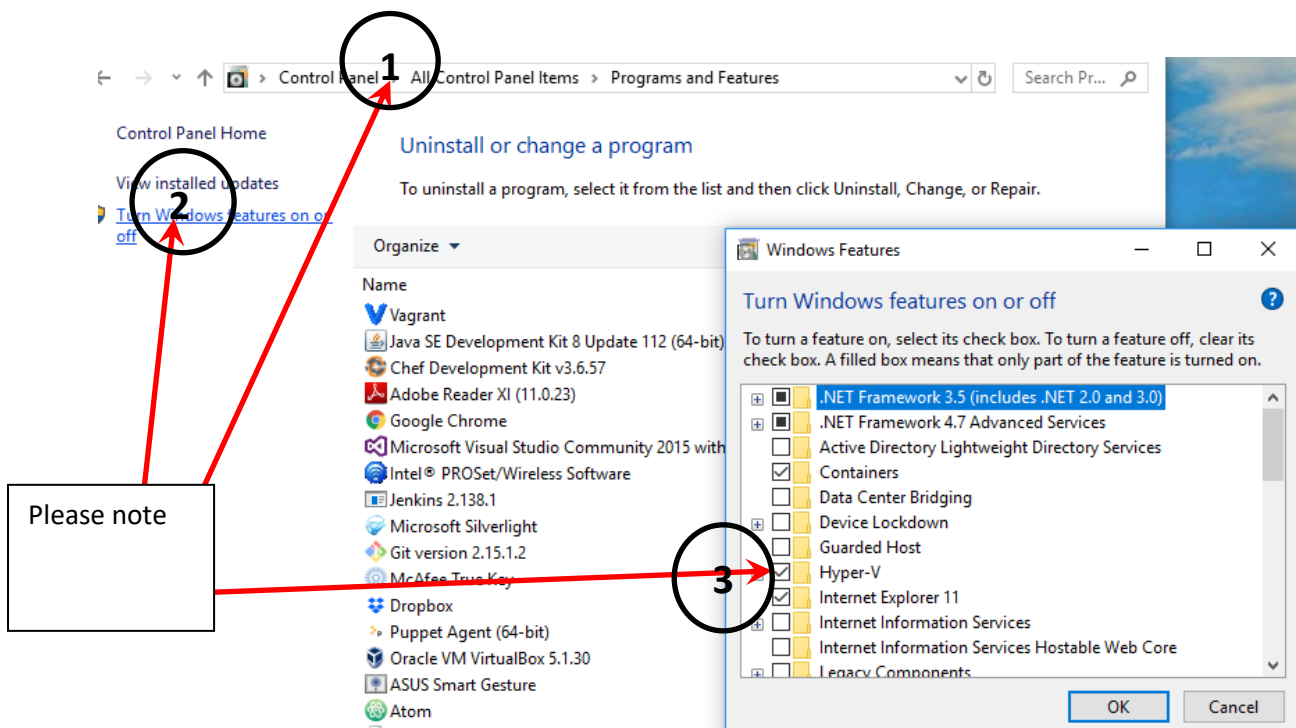
Minikube is a tool that makes it **easy to run Kubernetes locally**. **Minikube runs a single-node Kubernetes cluster inside a VM** (on Virtualbox for example) on your laptop for users looking to try out Kubernetes or develop with it day-to-day. Internally, minikube runs a single **Go** binary (named *localkube*), which runs all the kubernetes' components. The result is a local kubernetes endpoint that you can use with the **kubectl** client.

- Minikube supports **kubernetes features** such as DNS, Dashboards, CNI, NodePorts, ConfigMaps and Secrets and so on.
- The minikube VM runs Docker, but supports also **rkt** container engine.
- **Multiple version of kubernetes are supported**, from kubernetes 1.3.0 to 1.7.5 at the time of this writing.
- Possible to reuse the **minikube's built-in Docker daemon**; as this means you don't have to build a docker registry on your host machine and push the image into it – you can just build inside the same docker daemon as minikube which speeds up local experiments.
- Supports **persistent volumes** and **host folder mounting**.
- Kubernetes environment configurable.

Minikube is distributed in binary form for Linux, OSX, and Windows systems

Installing Minikube on Windows

At first we have to enable windows features like, Hyper-V on Windows.





Installing Kubectl first on Windows

```
```\nInstall-Script -Name install-kubectl -Scope CurrentUser -Force\ninstall-kubectl.ps1 [-DownloadLocation <path>]\n```\n\n<blockquote class="note">\nNote: If you do not specify a DownloadLocation, kubectl will be\ninstalled in the user's temp Directory.\nThe installer creates $HOME/.kube and instructs it to create a config\nfile
```

## Install using Chocolatey on Windows

1. Run the installation command:
2. `choco install kubernetes-cli`
3. Test to ensure the version you installed is sufficiently up-to-date:
4. `kubectl version`
5. Change to your %HOME% directory:  
For example: `cd C:\users\yourusername`
6. Create the .kube directory:
7. `mkdir .kube`
8. Change to the .kube directory you just created:  
`cd .kube`

This will need first to download and install Chocolatey using below command,

```
Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object\nSystem.Net.WebClient).DownloadString('https://chocolatey.org/insta\nll.ps1'))
```

## Minikube on Linux VM:

Below command is to download minikube on linux VM.

```
$ curl -Lo minikube\nhttps://storage.googleapis.com/minikube/releases/v0.30.0/minik
```



```
ube-linux-amd64 && chmod +x minikube && sudo cp minikube
/usr/local/bin/ && rm minikube
```

To use minikube on a VM where there's no VM-Driver

```
$ sudo minikube start --vm-driver=none --apiserver-ips
127.0.0.1 --apiserver-name localhost
```

Run below command as recommended.

```
$ sudo chown -R $USER $HOME/.minikube
```