

# Kubernetes installation



Kubernetes can run on a range of platforms, from your laptop, to VMs on a cloud provider, to rack of bare metal servers.

- Local-machine Solutions
- Hosted Solutions
- Turn-key Cloud Solutions
- Custom Solutions
  - Cloud
  - On-Premises VMs
  - Bare Metal



# Local-machine solutions



**minikube**

Minikube is a new local development platform for Kubernetes, so customers can begin developing on their desktop or laptop.

Packages and configures a Linux VM, Docker and all Kubernetes components, optimized for local development

Can be installed with a single command

Alongside the regular pods, services and controllers, supports advanced Kubernetes features:

- DNS
- NodePorts
- ConfigMaps and Secrets
- Dashboard

# Local-machine solutions



**minikube**

Minikube is the recommended method for you to create a single node kubernetes cluster locally for purposes of development and testing.

Setup is completely automated and doesn't require a cloud provider account.

# Local-machine solutions



**minikube**

```
$ curl -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s  
https://storage.googleapis.com/kubernetes-  
release/release/stable.txt)/bin/linux/amd64/kubectl  
$ chmod +x ./kubectl  
$ sudo mv ./kubectl /usr/local/bin/kubectl
```

```
$ curl -Lo minikube  
https://storage.googleapis.com/minikube/releases/v0.18.0/minikube-linux-amd64 &&  
chmod +x minikube && sudo mv minikube /usr/local/bin/
```

# Materials / Tools



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