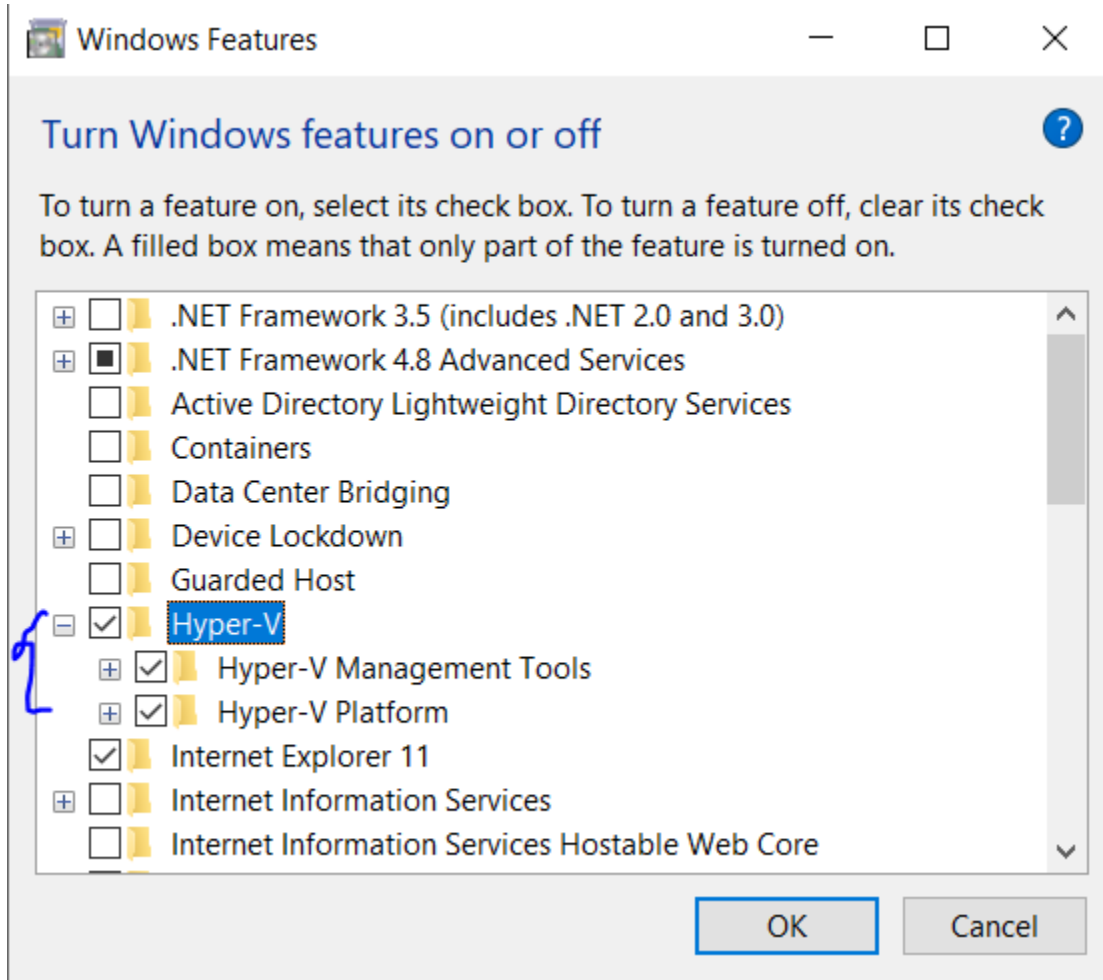



Install Hyper-V



After installation, create new Hyper-V Virtual Switch

Virtual Machines

| Name | State | CPU Usage | Assigned Memory |
|--|---------|-----------|-----------------|
|  minikube | Running | 3% | 2000 MB |

<


Checkpoints

No virtual machine selected.


Details


Actions


PCMAMA2


 Quick Create...


New


 Import Virtual Machine...


 Hyper-V Settings...


 Virtual Switch Manager...


 Virtual SAN Manager...

 Edit Disk...


 Inspect Disk...

 Stop Service

 Remove Server

 Refresh

View

 Help

Create virtual switch

What type of virtual switch do you want to create?

External

Internal

Private

Create Virtual Switch

When defining virtual switch properties select proper External network, one that you are connected to.

Virtual Switch Properties

Name: minikube

Notes:

Connection type

What do you want to connect this virtual switch to?

☒ External network:

Intel(R) Ethernet Connection (7) I219-LM

☒ Allow management operating system to share this network adapter

☐ Internal network

☐ Private network

VLAN ID

☐ Enable virtual LAN identification for management operating system

The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.

2

Remove

Open powershell with admin rights and install minikube (this requires choco package manager):

<https://chocolatey.org/>

choco install -y minikube

Install minikube and attach it to network switch

minikube start --vm-driver hyperv --hyperv-virtual-switch "minikube"

```
PS C:\Users\mama> minikube start --vm-driver hyperv --hyperv-virtual-switch "minikube"
* minikube v1.5.2 on Microsoft Windows 10 Pro 10.0.18362 Build 18362
* Downloading VM boot image ...
  > minikube-v1.5.1.iso.sha256: 65 B / 65 B [-----] 100.00% ? p/s 0s
  > minikube-v1.5.1.iso: 143.76 MiB / 143.76 MiB [ ] 100.00% 119.40 MiB p/s 1s
* Creating hyperv VM (CPUs=2, Memory=2000MB, Disk=20000MB) ...
* Preparing Kubernetes v1.16.2 on Docker '18.09.9' ...
* Downloading kubeadm v1.16.2
* Downloading kubelet v1.16.2
* Pulling images ...
* Launching Kubernetes ...
* Waiting for: apiserver
* Done! kubectl is now configured to use "minikube"
```

choco install docker-cli and attach it to minikube

choco install -y docker-cli

& minikube docker-env | Invoke-Expression

```
PS C:\WINDOWS\system32> & minikube docker-env | Invoke-Expression
PS C:\WINDOWS\system32> docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS             PORTS             NAMES
1195b07dc4a        bf261d157914       "/coredns -conf /etc..." 29 minutes ago      Up 29 minutes     53/54/tcp         k8s_coredns_coredns-5644d7b6d9-mpfv
488072d11f64       bf261d157914       "/coredns -conf /etc..." 29 minutes ago      Up 29 minutes     53/54/tcp         k8s_coredns_coredns-5644d7b6d9-ng7c
29c3c5f715bd       k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
b4b1e329628a       k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
01a09f88bdc        4689881eddb0       "storage-provisioner"     29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
a19ed5388cd        k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
afe17cc39e5b       8454che88dc9       "/usr/local/bin/kube..." 29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
481ceabfc255       k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
d9a63523e073       k8s.gcr.io/kube-addon-manager  "opt/kube-addons.sh"     29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
1f354294cd        b275d210eeab       "etcd --advertise-cl..." 29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
9f68672852f2       ebac1ae204a2       "kube-scheduler --au..." 29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
76f1c0a88533       c2c9a086787       "kube-apiserver --ad..." 29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
ed1fa453a199       6e4bffa46c70       "kube-controller-man..." 29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
279a2_0
d984e36a531d       k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
a727618651d        k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
1de255b2445e       k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
cfa0e694abb        k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
c43d3a09a22       k8s.gcr.io/pause:3.1  "/pause"           29 minutes ago      Up 29 minutes     127.0.0.1:53->127.0.0.1:53
PS C:\WINDOWS\system32>
```

Command **docker container ls** should give result as above

Verify also **kubectl get pods -A**

```
PS C:\WINDOWS\system32> kubectl get pods -A
NAMESPACE   NAME                                     READY   STATUS    RESTARTS   AGE
kube-system  coredns-5644d7b6d9-mpfvd              1/1     Running   0          30m
kube-system  coredns-5644d7b6d9-ng7c8              1/1     Running   0          30m
kube-system  etcd-minikube                          1/1     Running   0          29m
kube-system  kube-addon-manager-minikube            1/1     Running   0          30m
kube-system  kube-apiserver-minikube                 1/1     Running   0          28m
kube-system  kube-controller-manager-minikube        1/1     Running   0          28m
kube-system  kube-proxy-hjk85                       1/1     Running   0          30m
kube-system  kube-scheduler-minikube                 1/1     Running   0          29m
kube-system  storage-provisioner                     1/1     Running   0          30m
```

