THE JOURNEY TO
VMware Tanzu

Part 2: Deploying a small Kubernetes cluster

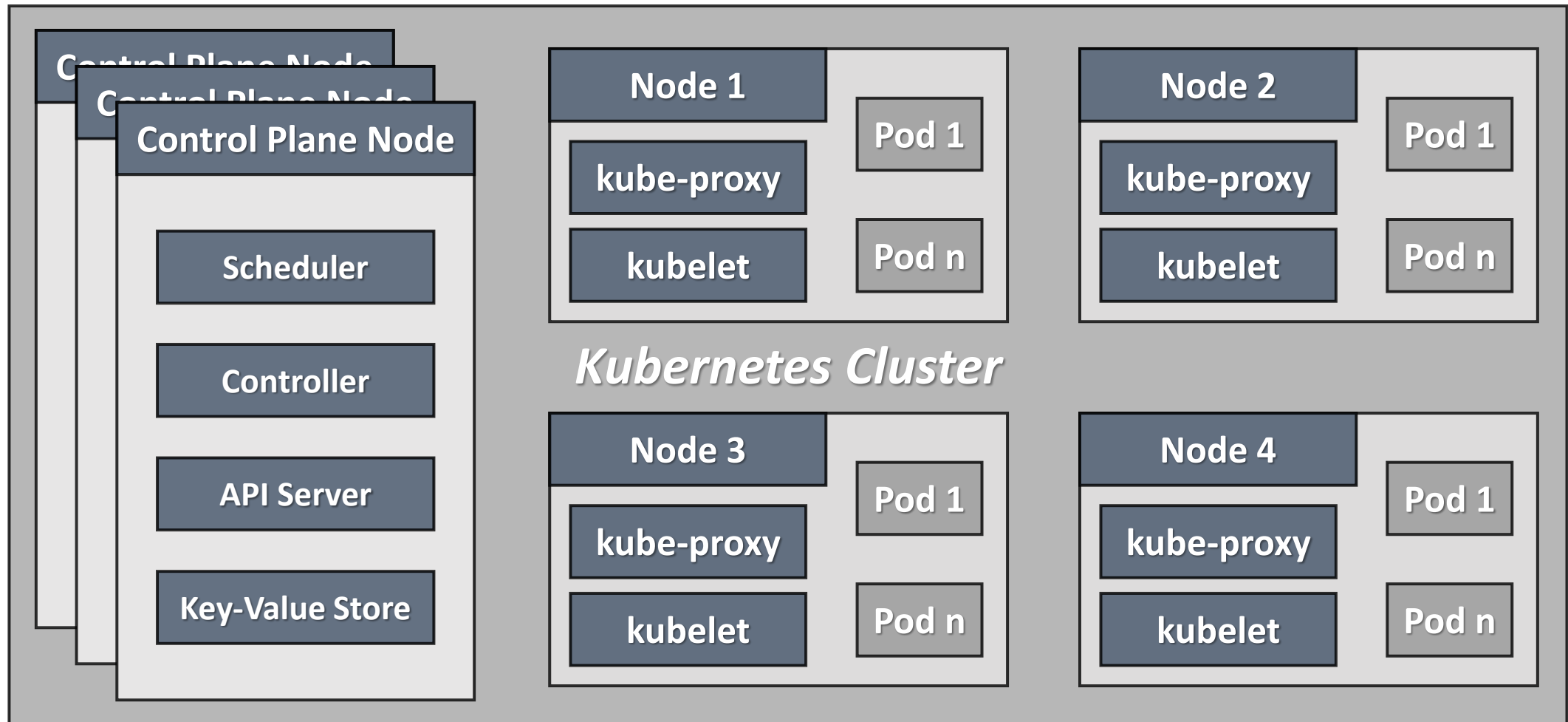# Agenda

- Kubernetes Architecture
- Cluster Creation Steps
- Demo

Kubernetes Architecture

Review

Architecture Overview *

Control Plane Node

Control Plane Node

Control Plane Node

- Scheduler
- Controller
- API Server
- Key-Value Store

Kubernetes Cluster

Node 1
- kube-proxy
- kubelet
- Pod 1
- Pod n

Node 2
- kube-proxy
- kubelet
- Pod 1
- Pod n

Node 3
- kube-proxy
- kubelet
- Pod 1
- Pod n
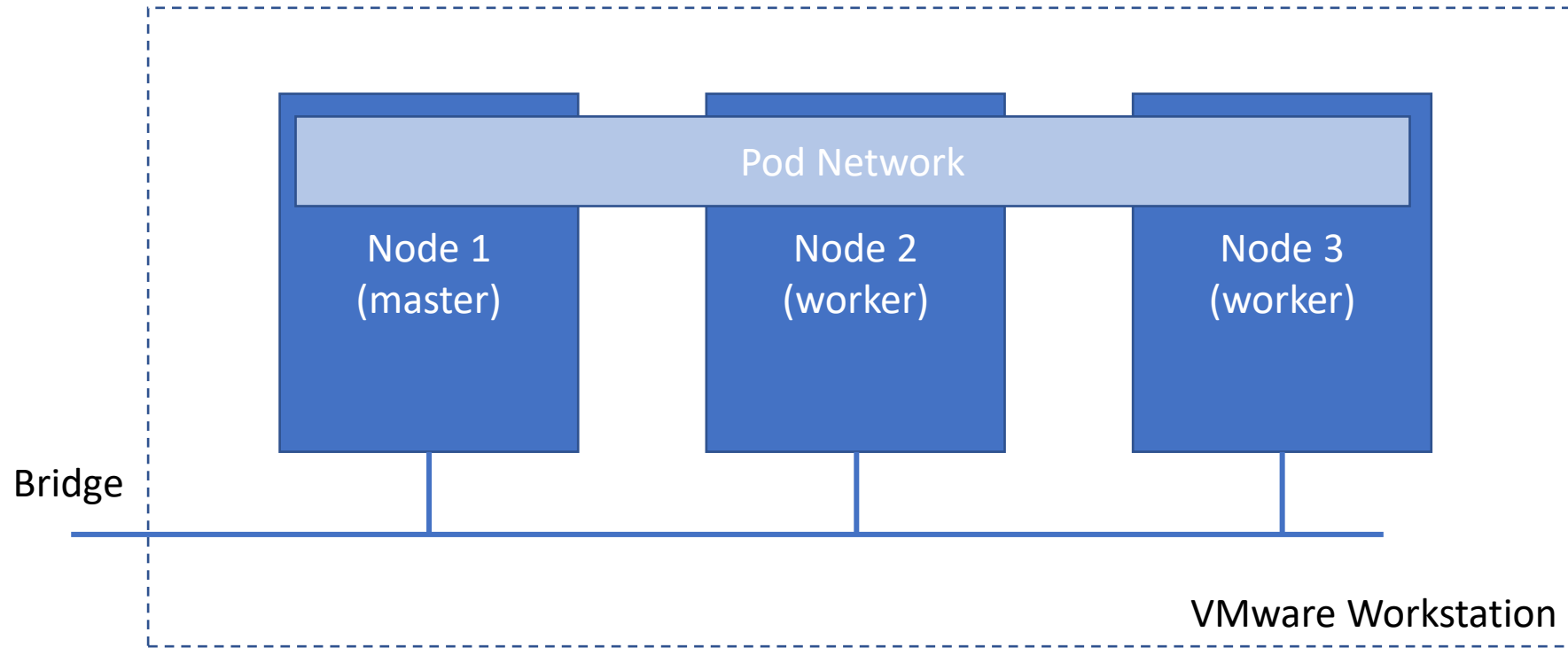
Node 4
- kube-proxy
- kubelet
- Pod 1
- Pod n

* Not all components are shown

Cluster Creation Steps

Steps list

Another View

Steps

- Prepare a virtual machine
- Create a template
- Clone it
- Bootstrap the cluster (on the master)
- Join the worker nodes
- Install specific plugins (like Dashboard, POD Network, …)
- Enjoy your new K8s cluster ☺

Kubernetes in Action

A short demonstration of how to create Kubernetes cluster

Most recent version can be downloaded from **https://github.com/shekeriev/journey-vmware-tanzu**