**Lab:01 Install K3S**

Objective: Install K3s Kubernetes Cluster on Ubuntu

Facts to Remember:

K3s is a Kubernetes distribution developed by [Rancher](https://rancher.com/). Compared to some other Kubernetes distributions it’s **lightweight**, **really easy to install** and has only minimal operating system dependencies. One of the things that make it easy to use is, that many Kubernetes components are bundled in a single binary that bootstraps the Kubernetes installation.

Defaults:

K3s Uses Traefik as Ingress Controller

By default, K3s deploys the ‘Local-path-provisioner’ storage driver within the cluster.

Step:1 Prepare your System

Change to root user

Update OS by executing apt update

sudo -i .

apt-get update

Step:2 Install Cluster

curl -sfL https://get.k3s.io | sh –

Step:3 Verify Installation

systemctl status k3s.service

Step:4 Get Cluster Information

kubectl cluster-info

Step:5 Configure kubectl

export KUBECONFIG=/etc/rancher/k3s/k3s.yaml

Step:6 Verify kubectl configuration

Kubectl get nodes