A DevOps engineer working on Azure. There are 3 ways

A website example.com is on Azure and the 1st method is on-premise

Data centre like private cloud platform like OpenStack where they can create VM. 3 for Control pane and 2 for development pane. Control pane are the master nodes.

2nd method

On azure cloud, VM service request 5 VM. 3 VM for CP and 2 for DP.

3rd method

DevOps Engineer can go to AKS and request for Kubernetes cluster.

On-premise and Azure method are self-managed Kubernetes cluster. AKS is azure managed

Parameter on which is best:

On-premises – Maintenance (w.r.t upgrades, node upgrades), Cost (If data centre is present then less), Scaling (Manually done), Integration (CSI)

VM KSS – Maintenance (w.r.t upgrades, node upgrades support provided), Moderate cost, Scaling (Auto-scaling config is done), Integration (Have to make sure everything is in place)

AKS – Automatic upgrade provided, Charged when used, Autoscaling default, Easier in integration

Security is a big disadvantage when it comes to On-premises and VM KSS.