#### Kubernetes Ochestration

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Skill: DevOps Engineer Lead





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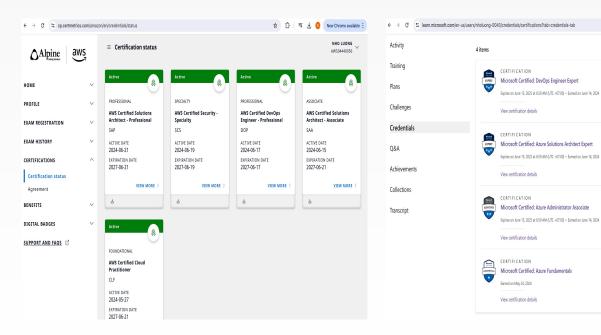
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## Application Pods

• Application Components and number of replicas

Below are the restriction for K8s

- 5000 Nodes
- o 150,000 pods
- 300,000 containers
- <sup>o</sup> 100 pods per node

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### Resource Requirements

- Processor, HDD and Memory requirement for the cluster.
- Application Data Storage

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#### Worker Nodes in a Cluster

- Worker node size depends upon pods resource requirements.
- Total Number of Nodes=Maximum Pods per cluster/ Expected Pods per Nodes.
- Plan for the node failure at any point.

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# Master Node Configuration

1-5 Nodes	2 vCPU/4GB RAM
6-10 Nodes 11 to	2 vCPU/7.5GB RAM
100 Nodes 101 to	4 vCPU/15GB RAM 8
250 Nodes 251to	vCPU/30GB RAM 16
500 Nodes > 500	vCPU/30GB RAM 36
Nodes	vCPU/60GB RAM

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