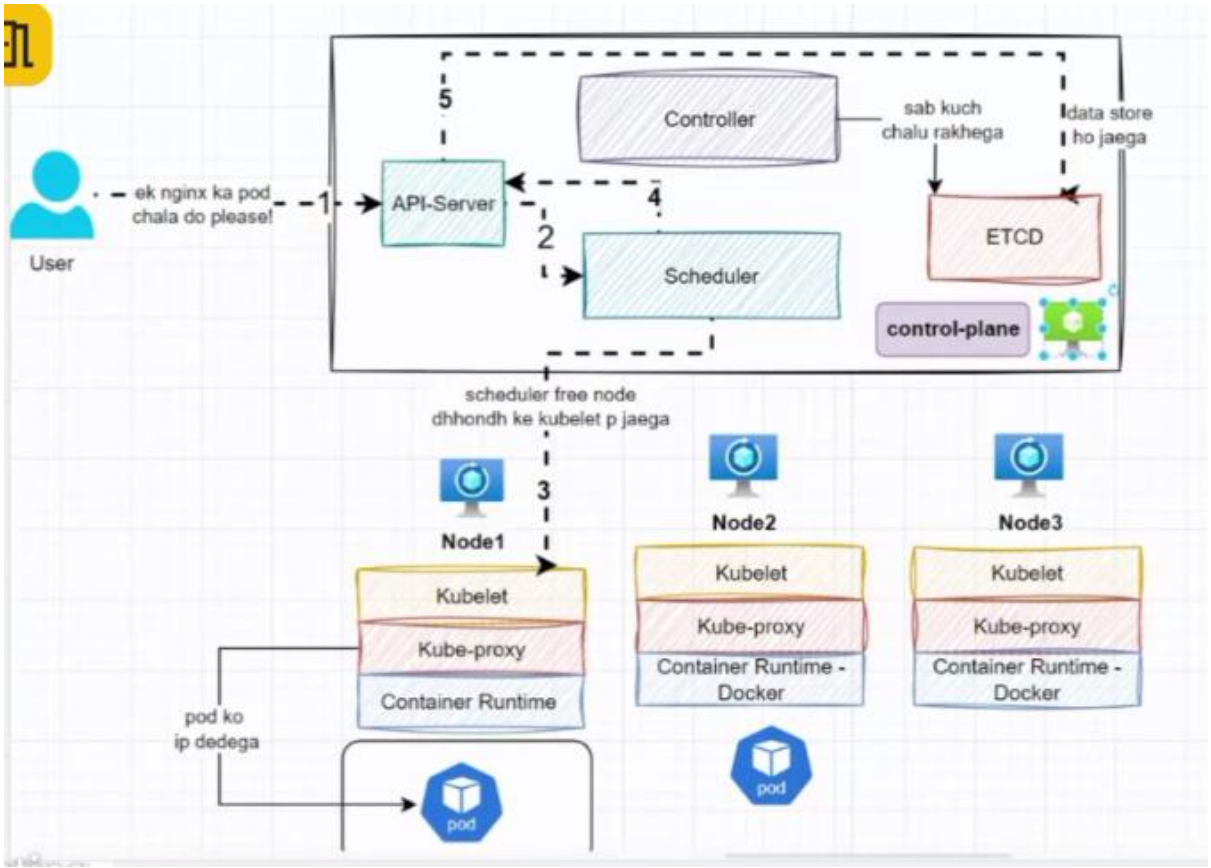
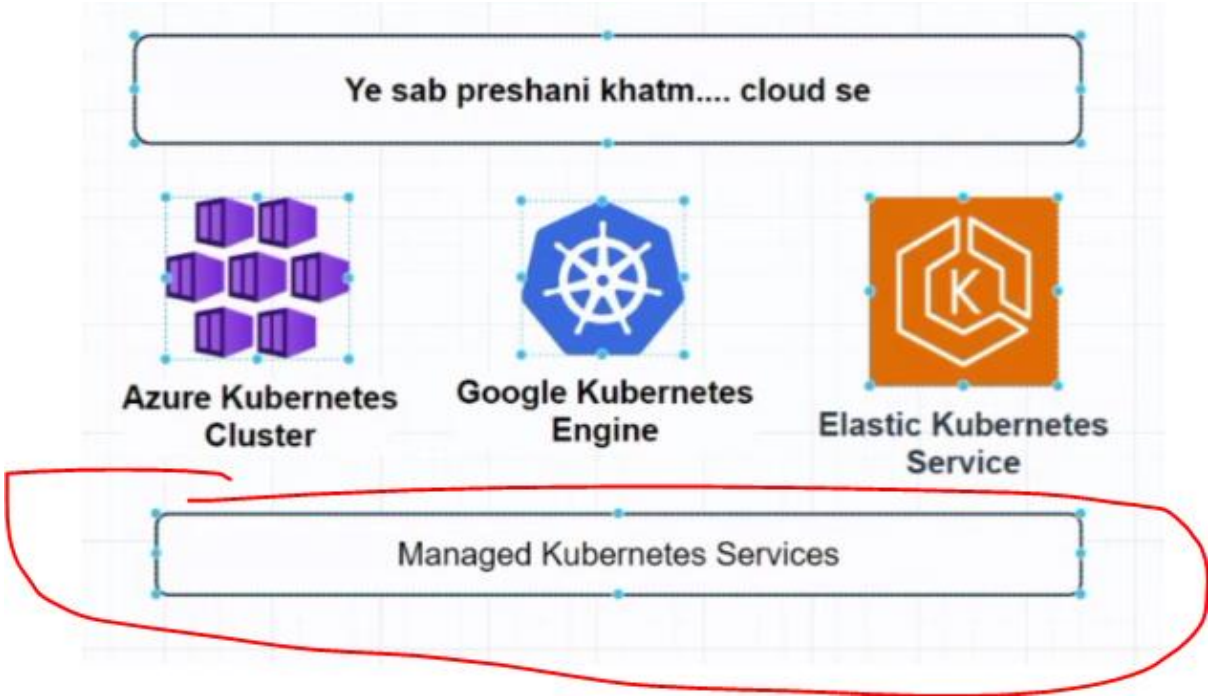
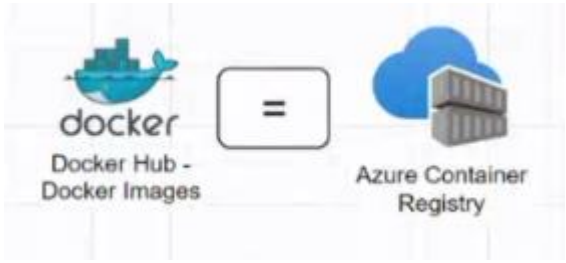
12 OCTOBER – KUBERNETES

AGENDA – Running nginx pod on kubernetes paas service

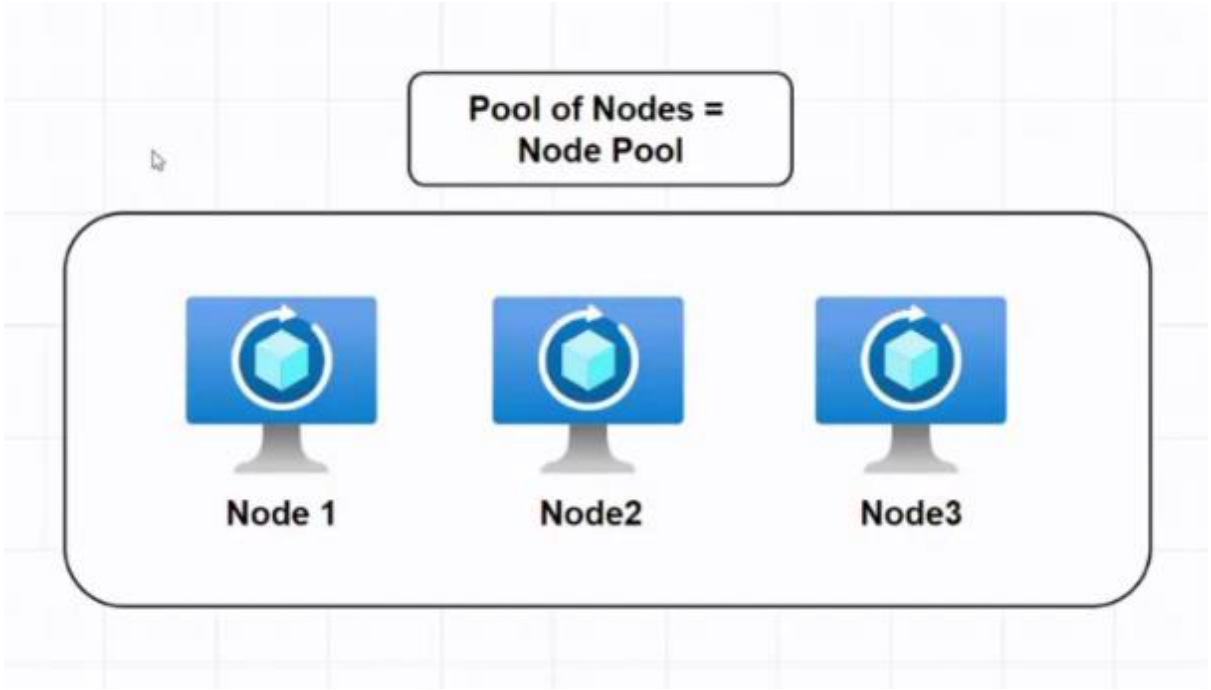


1) We can have multiple master nodes for different configuration to maintain availability

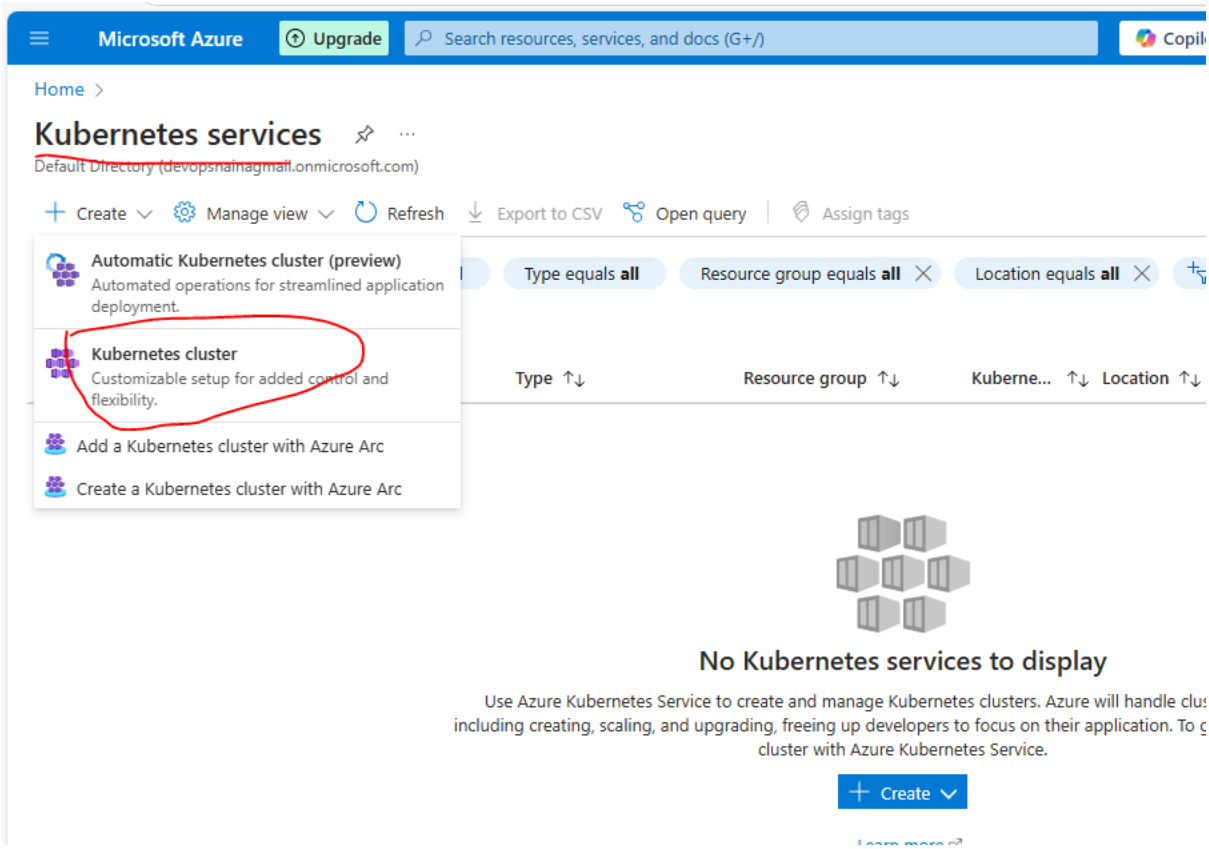




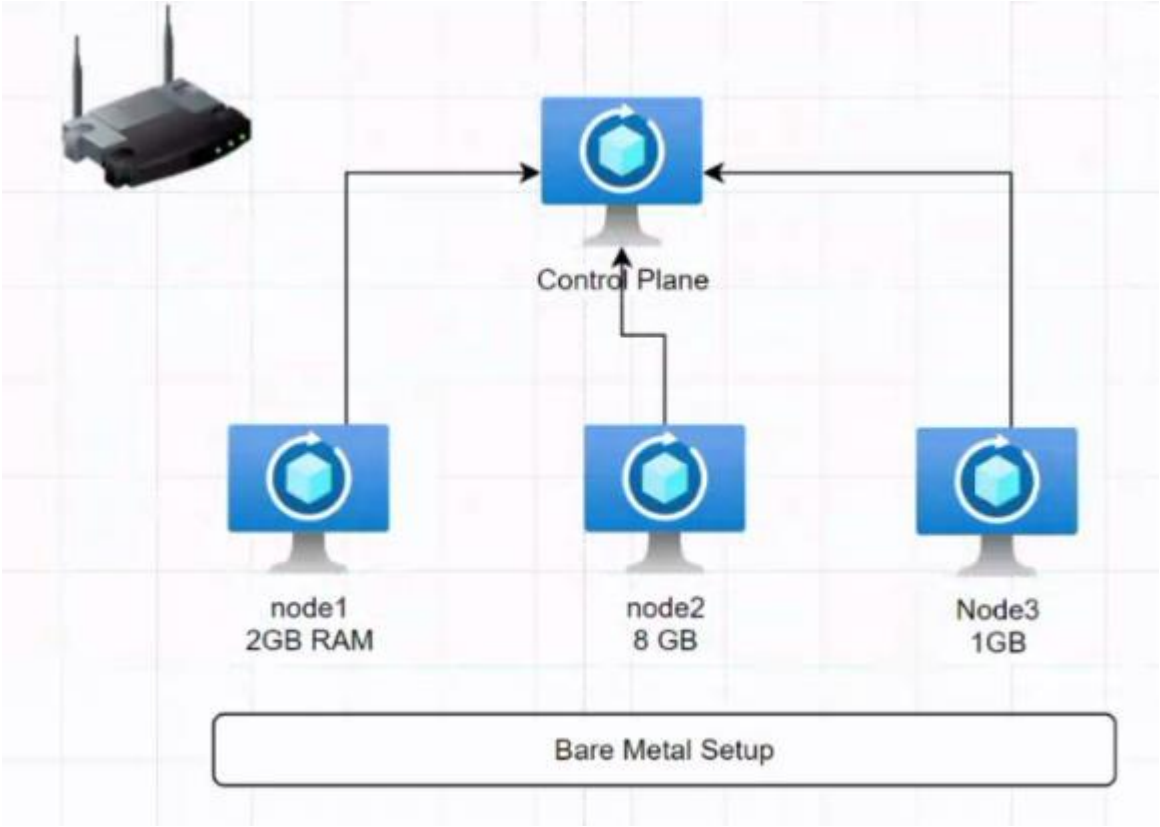
2) ACR – Azure Container Registry, where we keep container image



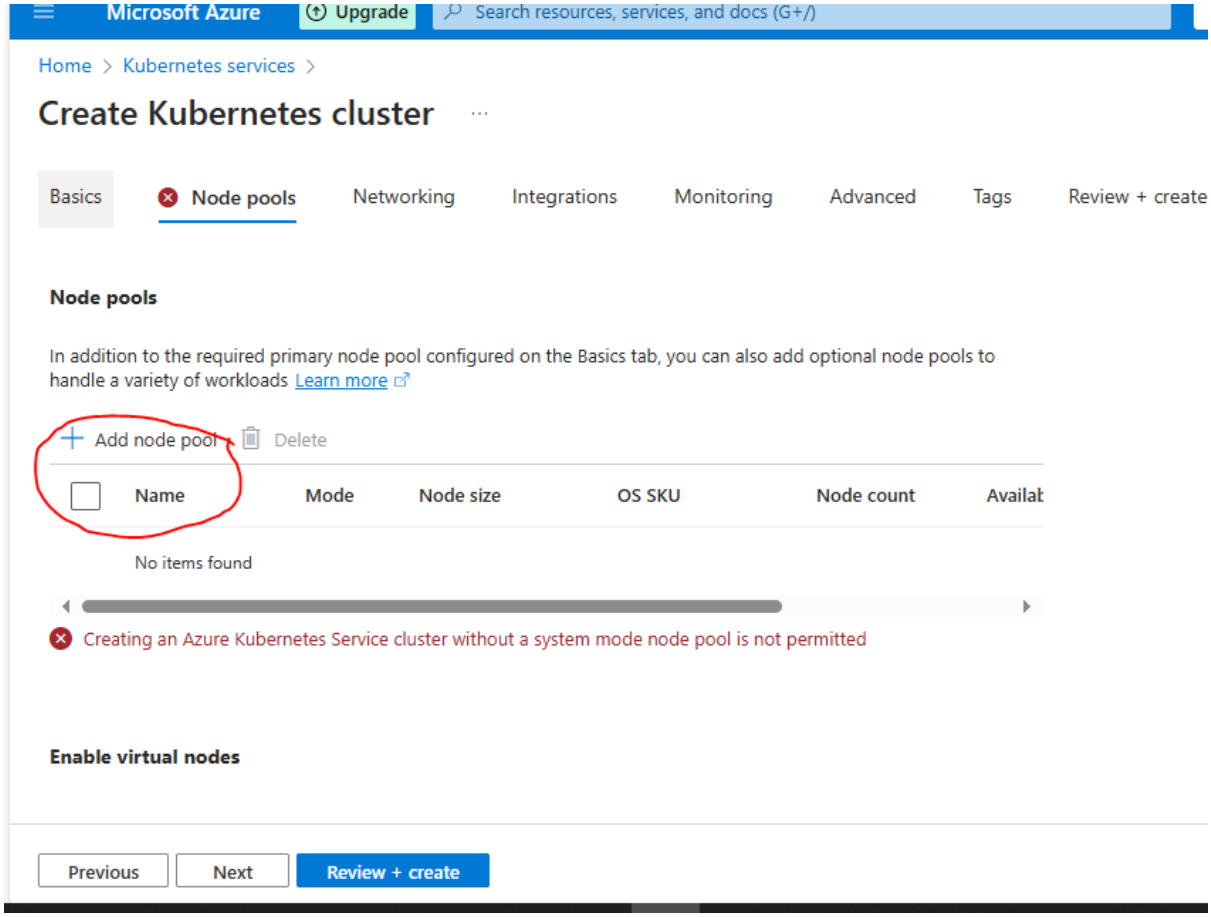
3) SEARCH = AZURE KUBERNETES SERVICES



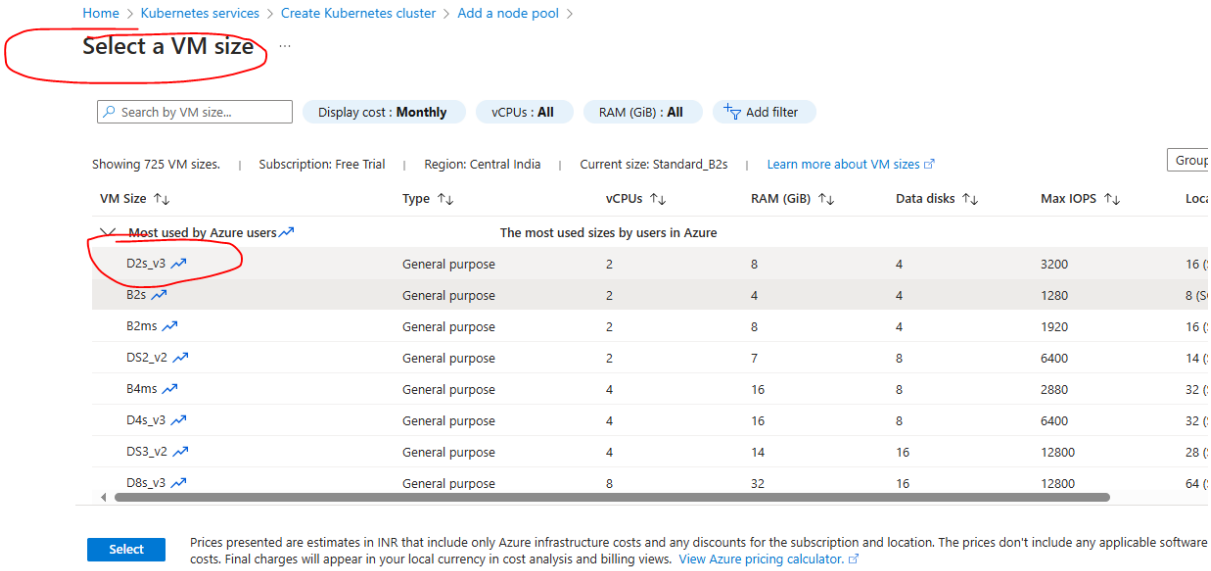
4) All 3 nodes should be connected to master (i.e. control plane) which will create our whole cluster. This can also be called as BARE METAL SETUP.



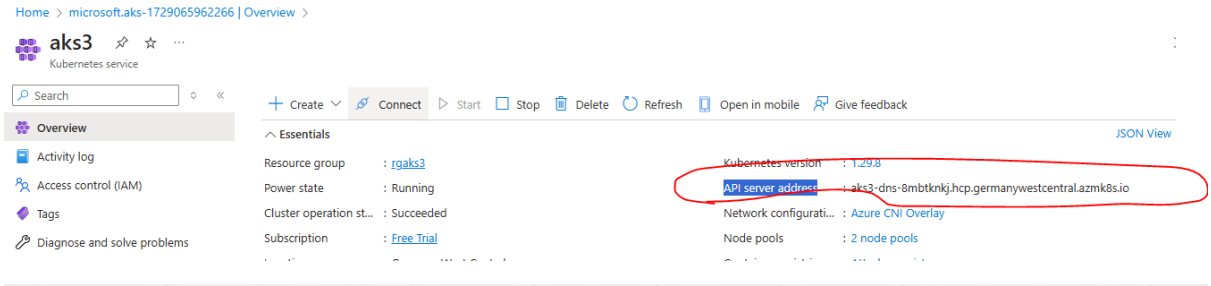
5) Suppose creating “Add node pool”

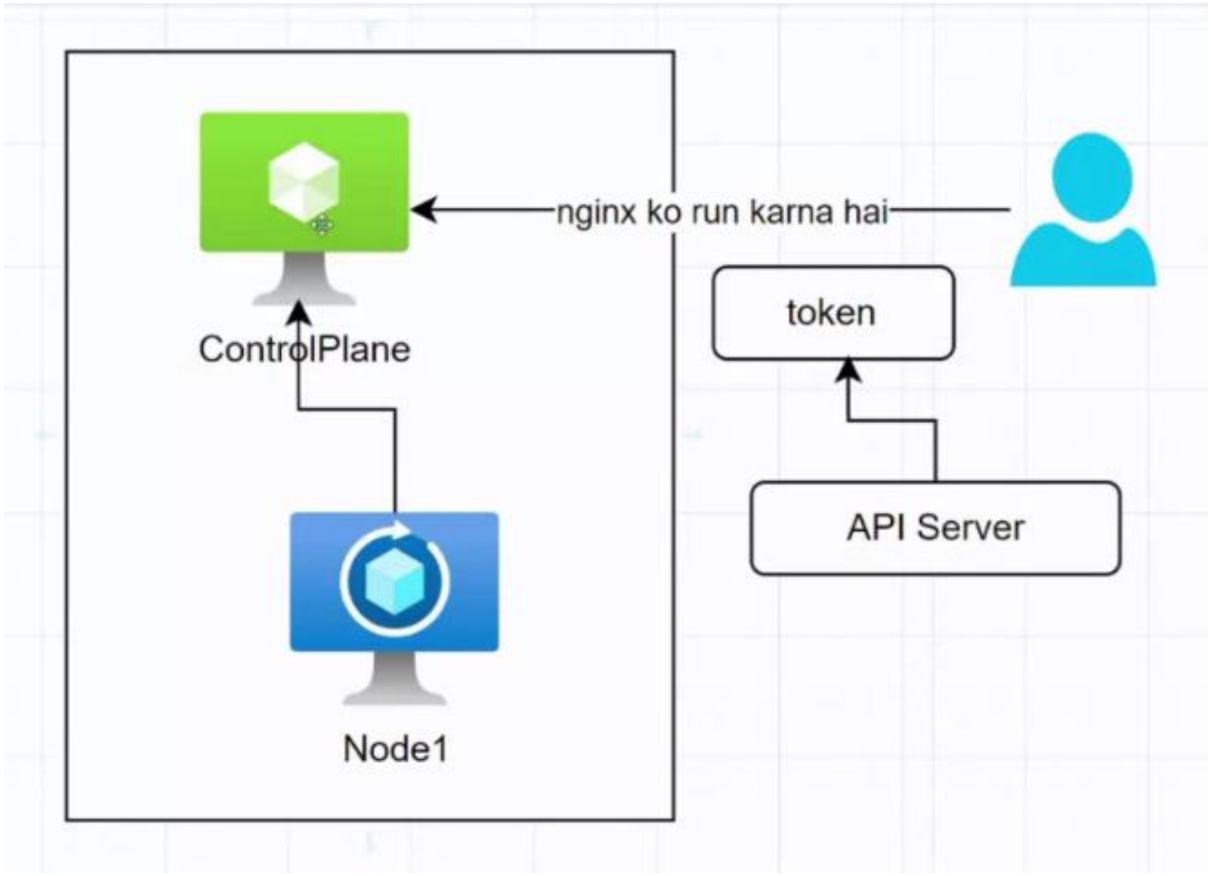


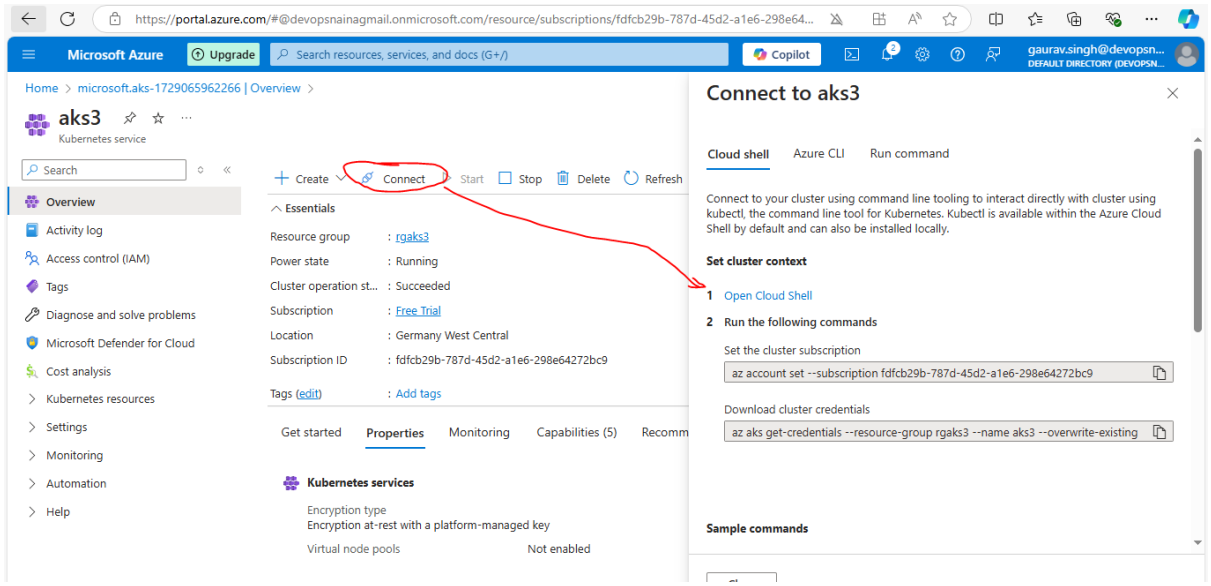
6) Select a node size



7) After creating cluster in portal we got **API server address** and Azure provides us the **token** to enter into cluster



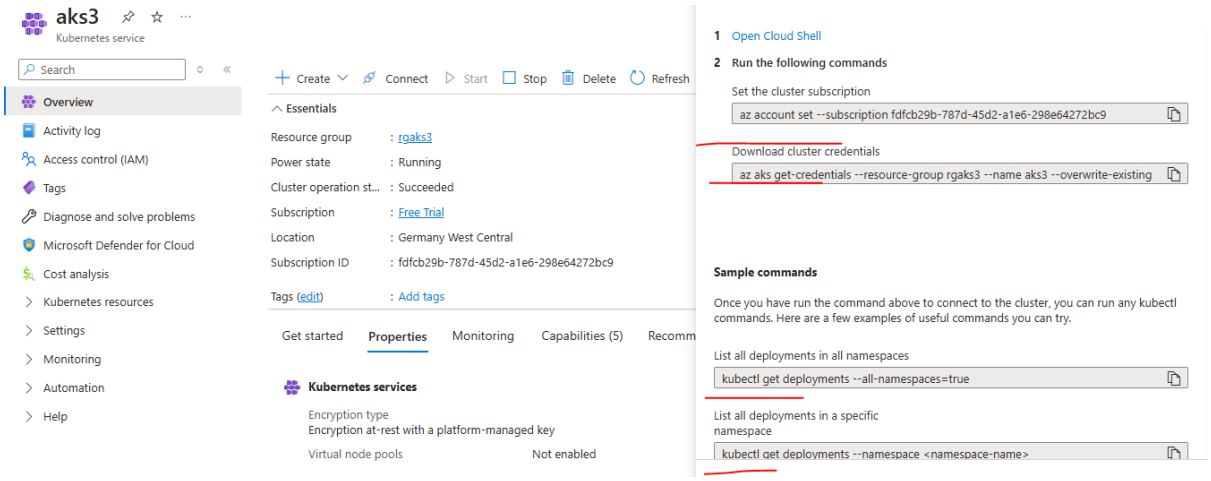




8) Open powershell do az login

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\HP> az login
Select the account you want to log in with. For more information on login with Azure CLI, see https://go.microsoft.com/fwlink/?linkid=2271136

Retrieving tenants and subscriptions for the selection...

[Tenant and subscription selection]

No     Subscription name    Subscription ID                       Tenant
-----  -------------------  ------------------------------------  ----------------
[1] *  Free Trial           fdfcb29b-787d-45d2-a1e6-298e64272bc9  Default Directory

The default is marked with an *; the default tenant is 'Default Directory' and subscription is 'Free Trial' (fdfcb29b-787d-45d2-a1e6-298e64272bc9).

Select a subscription and tenant (Type a number or Enter for no changes):
```

9) Now run commands given to set cluster subscription and download cluster credentials



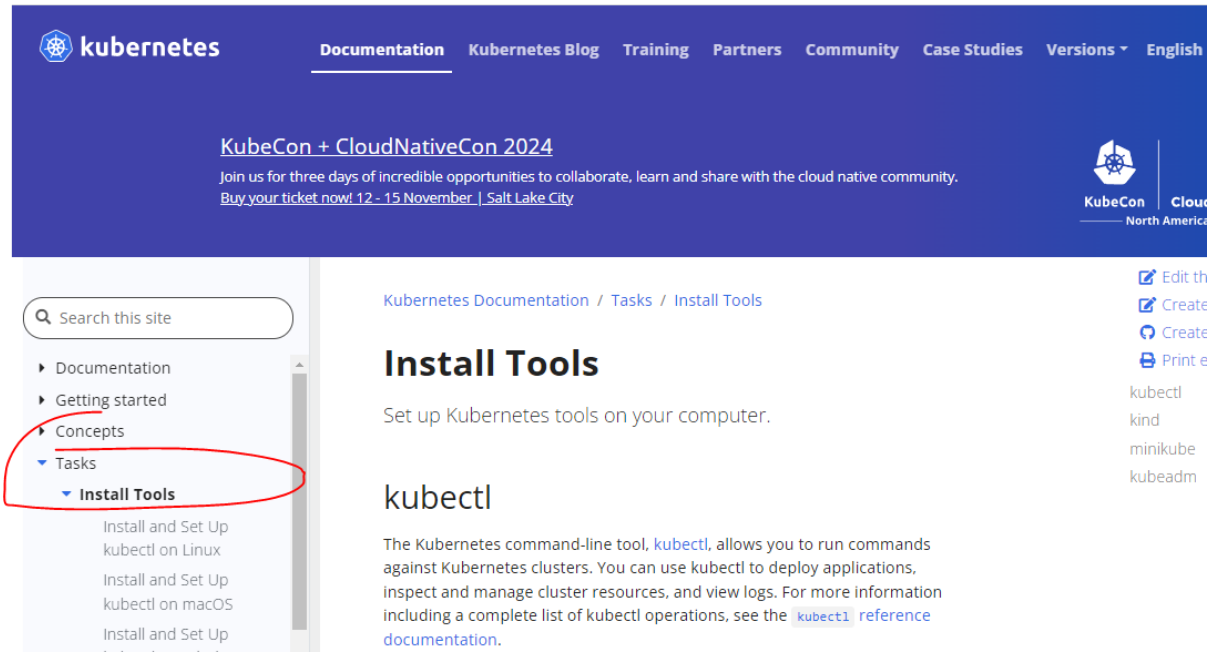

```
PS C:\Users\HP> az account set --subscription fdfcb29b-787d-45d2-a1e6-298e64272bc9
PS C:\Users\HP> az aks get-credentials --resource-group rgaks3 --name aks3 --overwrite-existing
Merged "aks3" as current context in C:\Users\HP\.kube\config
PS C:\Users\HP>
```

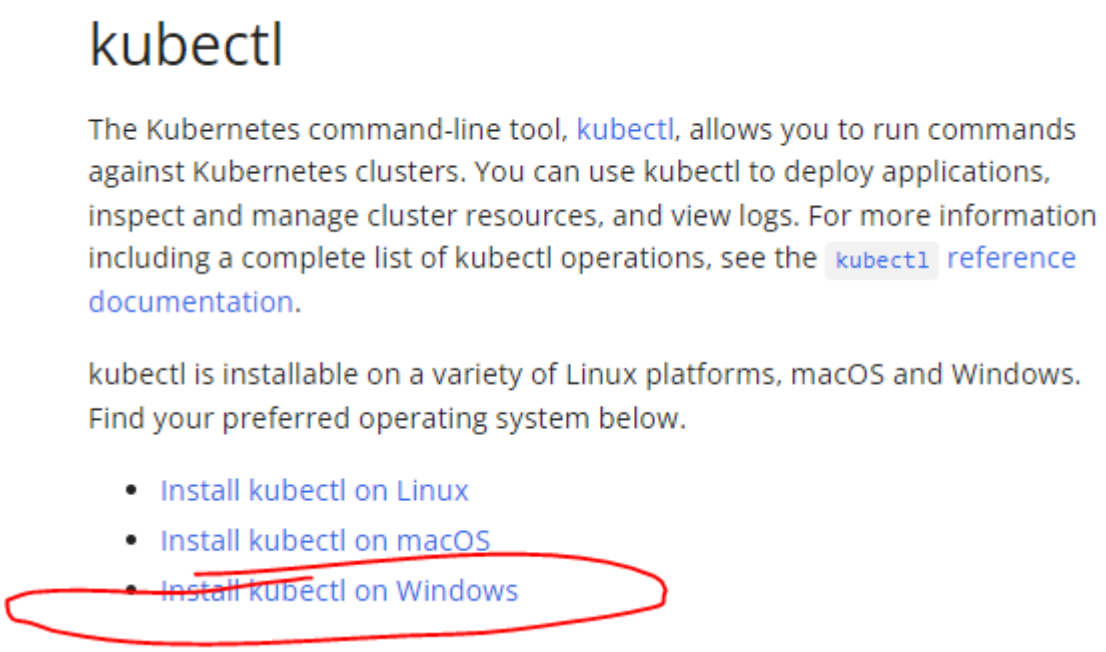
10) Copy path and enter into it

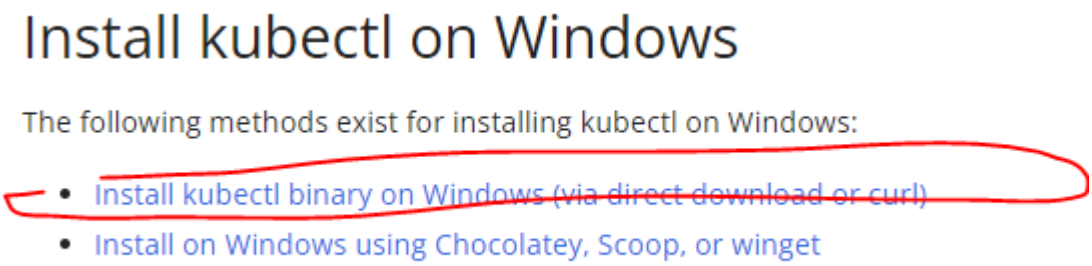
```
Merged "aks3" as current context in C:\Users\HP\.kube\config
PS C:\Users\HP>
```

11) Now suppose we have to run nginx inside our cluster

12) SEARCH – kubectl







curl.exe -LO https://dl.k8s.io/release/v1.31.0/bin/windows/amd64/kubectl.exe

Run only in browser - https://dl.k8s.io/release/v1.31.0/bin/windows/amd64/kubectl.exe

And it will download a kubectl file just set it in environment variables

13) Search kubectl in cmd