Kubernetes – Intro

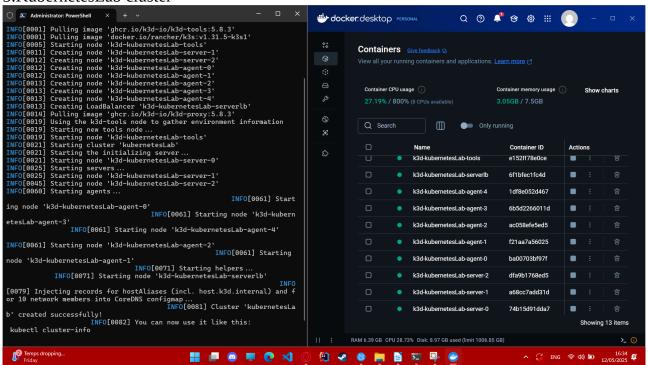
1.Installing Kubectl with choco

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Administrator: PowerShell
PS C:\Users\Begir> choco install kubernetes-cli
Chocolatev v2.4.0
Installing the following packages:
kubernetes-cli
By installing, you accept licenses for the packages.
Downloading package from source 'https://chocolatey.org/api/v2/'
Progress: Downloading kubernetes-cli 1.33.0... 100%
kubernetes-cli v1.33.0 [Approved]
kubernetes-cli package files install completed. Performing other installatio
n steps.
The package kubernetes-cli wants to run 'chocolateyInstall.ps1'. Note: If you don't run this script, the installation will fail. Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): A
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-cli\tools\kuberne
tes-client-windows-amd64.tar.gz to C:\ProgramData\chocolatey\lib\kubernetes-
C:\ProgramData\chocolatev\lib\kubernetes-cli\tools
Extracting 64-bit C:\ProgramData\chocolatey\lib\kubernetes-cli\tools\kuberne
tes-client-windows-amd64.tar to C:\ProgramData\chocolatey\lib\kubernetes-cli
\tools ...
C:\ProgramData\chocolatey\lib\kubernetes-cli\tools
ShimGen has successfully created a shim for kubectl-convert.exe
 ShimGen has successfully created a shim for kubectl.exe
 The install of kubernetes-cli was successful.
  Deployed to 'C:\ProgramData\chocolatey\lib\kubernetes-cli\tools'
Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\Users\Beqir> kubectl version --client
Client Version: v1.33.0
Kustomize Version: v5.6.0
PS C:\Users\Begir>
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2.Installing K3D with choco

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                                                                        Administrator: PowerShell
PS C:\Users\Begir> choco install k3d
Chocolatey v2.4.0
Installing the following packages:
By installing, you accept licenses for the packages.
Downloading package from source 'https://chocolatey.org/api/v2/'
Progress: Downloading k3d 5.8.3... 100%
k3d v5.8.3 [Approved]
k3d package files install completed. Performing other installation steps.
 ShimGen has successfully created a shim for k3d.exe
 The install of k3d was successful.
  Deployed to 'C:\ProgramData\chocolatey\lib\k3d'
Chocolatey installed 1/1 packages.
 See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\Users\Begir> k3d version
k3d version v5.8.3
k3s version v1.31.5-k3s1 (default)
PS C:\Users\Beqir>
```

3.KubernetesLab cluster



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PS C:\Users\Begir> kubectl get nodes									
NAME	STATUS	ROLES	AGE						
VERSION									
k3d-kuberneteslab-agent-0 v1.31.5+k3s1	Ready	<none></none>	2m24s						
k3d-kuberneteslab-agent-1 v1.31.5+k3s1	Ready	<none></none>	2m25s						
k3d-kuberneteslab-agent-2 v1.31.5+k3s1	Ready	<none></none>	2m24s						
k3d-kuberneteslab-agent-3 v1.31.5+k3s1	Ready	<none></none>	2m24s						
k3d-kuberneteslab-agent-4 v1.31.5+k3s1	Ready	<none></none>	2m24s						
k3d-kuberneteslab-server-0 v1.31.5+k3s1	Ready	control-plane,etcd,master	3m6s						
k3d-kuberneteslab-server-1 v1.31.5+k3s1	Ready	control-plane,etcd,master	2m50s						
k3d-kuberneteslab-server-2 v1.31.5+k3s1	Ready	control-plane,etcd,master	2m33s						
PS C:\Users\Beqir>									

○ Administrat	or: PowerShell X + V				-		×
PS C:\Users\Begir> kubectl get podsall-namespaces							
NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE		
kube-system	coredns-ccb96694c-hg4mp	1/1	Running	Θ	3m53	s	
kube-system	helm-install-traefik-crd-tb9q9	0/1	Completed	Θ	3m53	s	
kube-system	helm-install-traefik-qvqfm	0/1	Completed	1	3m53	s	
kube-system	local-path-provisioner-5cf85fd84d-26w89	1/1	Running	Θ	3m53	s	
kube-system	metrics-server-5985cbc9d7-sszjn	1/1	Running	Θ	3m53	s	
kube-system	svclb-traefik-9928dcb3-757mw	2/2	Running	0	3m16	s	
kube-system	svclb-traefik-9928dcb3-cg8fr	2/2	Running	0	3m33	s	
kube-system	svclb-traefik-9928dcb3-dcm6f	2/2	Running	Θ	3m16	s	
kube-system	svclb-traefik-9928dcb3-dfcg4	2/2	Running	Θ	3m16	s	
kube-system	svclb-traefik-9928dcb3-jbrmb	2/2	Running	Θ	3m32	s	
kube-system	svclb-traefik-9928dcb3-q2dmq	2/2	Running	0	3m16	s	
kube-system	svclb-traefik-9928dcb3-vx279	2/2	Running	Θ	3m26	s	
kube-system	svclb-traefik-9928dcb3-w2xwk	2/2	Running	Θ	3m16	s	
kube-system	traefik-5d45fc8cc9-8nsdz	1/1	Running	Θ	3m33	s	
PS C:\Users\Beqir>							

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4. Destoryed the cluster

