08] Automate the process of running containerised Application using Kubernets. (WINDOWS)

(K8S) Kubernets - Open source platform for automⁿ, deployment, scaling & management of containerized applicⁿ.

1) kubectl. (kubernets.io).

→ install for windows →

(using curl) ↕ → cmd → directory → C:\>

be in C drive (path)

C:\> → mkdir kubectl2 → <lab08-kubernets>

cd kubectl

→ C:\kubectl2 → <copy curl.exe>

↓

If Any error → (--ssl-no-revoke (before -LO) in the path)

to bypass revocation check.

2) validate the binary → copy checksum (sha) file & verify it in cmd.

3) validate using step 2 in (website)

CertUtil -hashfile kubectl.exe SHA256

type kubectl.exe.sha256

4) use powershell to automate the verification.

copy path → in powershell → (cd kubectl2) ✓.

→ o/p: True / false result obtained.

[All steps in kubernets website] ✓ follow.

minikube → for windows (follow the steps in website) in powershell (administrator)

[step 01] → copy path & run in powershell administrator.

path → ~~C:\kubectl\~~ → custom → where kubctl was installed

or change the folder path after download

→ (or continue) same just in administrator - powershell

(step 01) → add env → (need docker)

close & open powershell again

(step 02) → minikube start // minikube start --driver=docker

> minikube status → running.

(step 03) skip

→ kubectl get nodes

follow steps in minikube website (o/p).

→ minikube ready version

Step 04 deploy application

* service

→ follow the codes in powershell (administrator) upto (minikube service hello-minikube)

→ once deployed

→ shows URL/port where its running

Request served by minikube in microsoft edge.

→ minikube dashboard // to get UI, shows running pods, jobs, etc.

at last