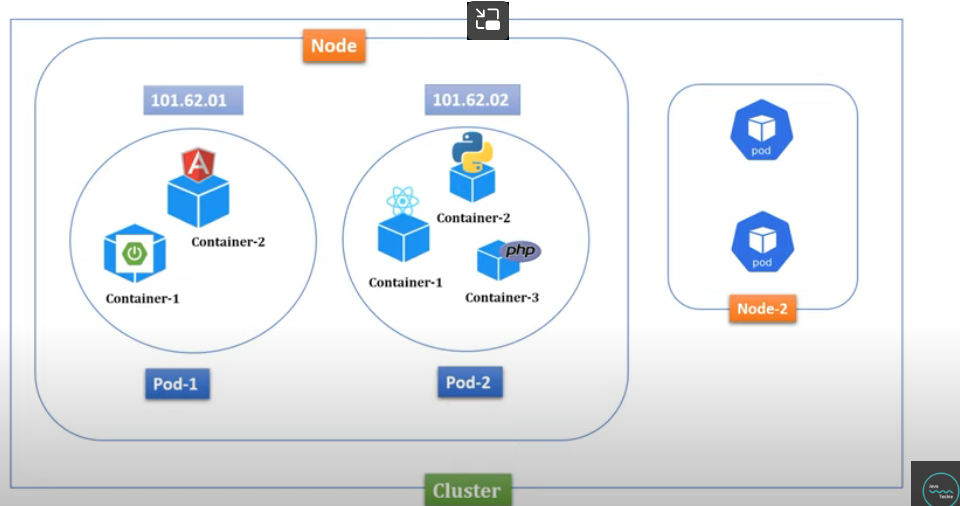
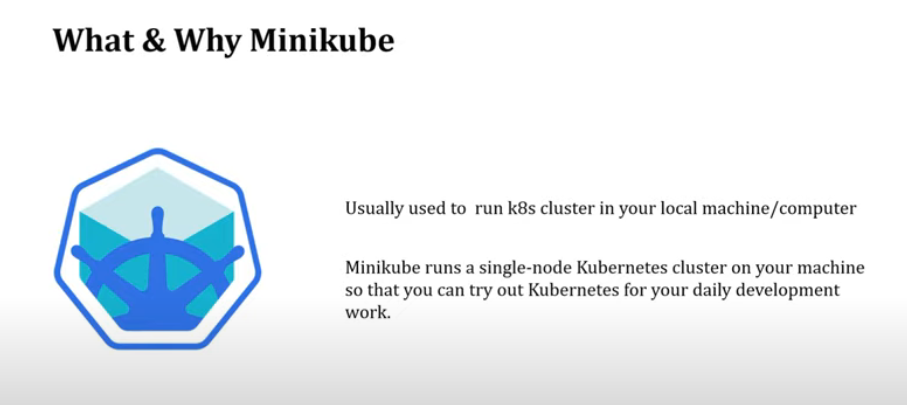
**KUBERNETES**

****

To run Kubernetes we need to setup a cluster on pur machine which cn be set by using the miniquobe.



A close-up of a computer code

Description automatically generated

KUBECTL

Using kubectl we can connect to a Kubernetes cl;uster from our windows machine

Install kubectl

**MINIKUBE**

Now download minikube for windows

After downloading it rename it to minikube.exe

A screenshot of a computer

Description automatically generated

3.Make a folder in C:

And plzce the above two exe files inthat.

A screenshot of a computer

Description automatically generated

Now to access this kubectl we need to add the above path to environment variable

A screenshot of a computer

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Now add it to path

Environment .

4.Now check the minikube version



Now you are done with the minikube setup in windows

5. **start a minikube**

You can use hyper v or virtual box.

For windows you need to use above two

If you have docker installed on your machine then you can use docker to start mininkube

A computer screen shot of a black screen

Description automatically generated

Check minikube status

A screen shot of a computer

Description automatically generated

As per the documentation once we start the minicube it will run a single node cluster

To verify if it made acluster or not

A screen shot of a computer

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The aove is clustedr nfo

Now get node info

A computer screen with white text

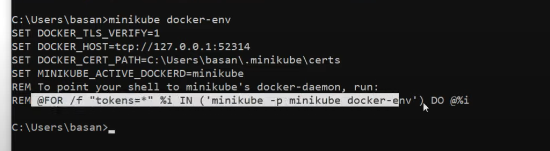
Description automatically generated

Now we are done with the Kubernetes sertup.now we go with deployment

As next step we will have to dockerize our application.we need to create a docker image of our application and push it to docker hub.

Now Kubernetes cluster will pick the image up from the docker hub and run it.

We will tell minikube the environment

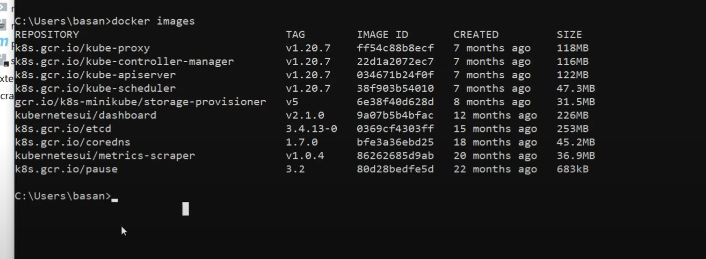


A screen shot of a computer

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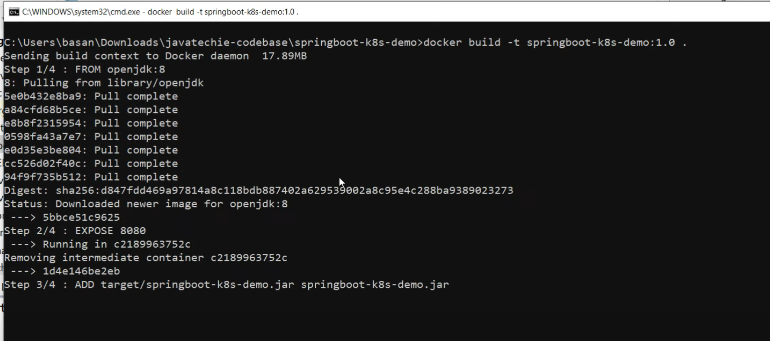
Now Kubernetes can read your local docker repeo

Now we want to see the docker images

 we can also see the Kubernetes specific images also.

Now do a cd to your application directory(springboot application dir)

As we need to build a docker image



The above created the docker image

Now to check we can do docker images

A screenshot of a computer

Description automatically generated

And we will get our docker image there