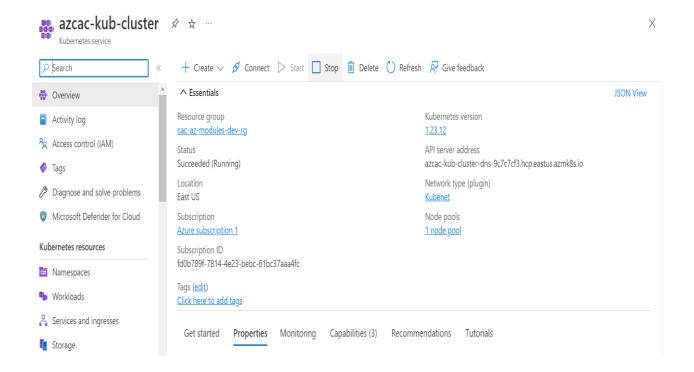
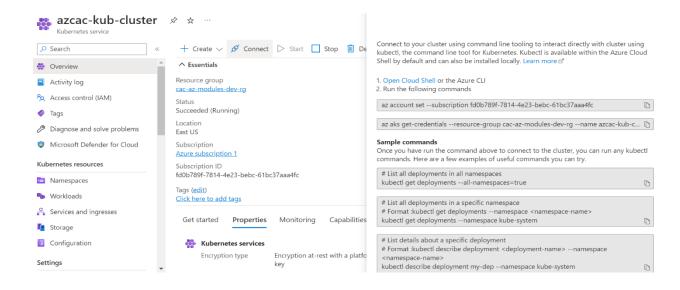
## Azure Kubernetes Service Integrated with Azure Container Registry (AKS with ACR)

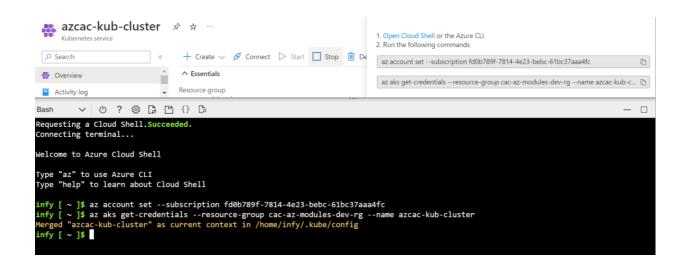
- **1.** Firstly, push an existing/ built container image into the Azure Container Registry (ACR) by logging into the ACR using the login-credentials of ACR using the command:
  - docker push <acr\_name>.azurecr.io/<container\_image\_name>
- **2.** Azure Portal Overview After Creation and Deployment of **Azure Kubernetes Service** through Terraform:



**3.** In the Overview of AKS - Click on Connect and follow the initial two commands to login to subscription and to Merge the AKS



**4.** Open the Azure CLI, move to Bash and apply the commands, after applying the two commands, the AKS gets Merged



**5.** After specifying the containers and Image Details in the YAML file. Upload the updated YAML file.

Deploy the application using the command:

- ➤ kubectl apply -f <filename>.yaml
- **6.** App is deployed successfully when you get created notifications.

```
infy [ ~ ]$ kubectl apply -f votingapp.yaml
deployment.apps/azure-vote-back created
service/azure-vote-back created
deployment.apps/azure-vote-front created
service/azure-vote-front created
infy [ ~ ]$
```

**7.** To test out the App, we need Public IP Address.

To check our deployment has created an external IP, run the command:

> kubectl get service

```
infy [ ~ ]$ kubectl get service
NAME
                                                  EXTERNAL-IP
                                                                  PORT(S)
                                                                                 AGE
                                  CLUSTER-IP
azure-vote-back
                   ClusterIP
                                  10.0.67.204
                                                  <none>
                                                                  6379/TCP
                                                                                 12m
                   LoadBalancer
azure-vote-front
                                  10.0.227.112
                                                  20.241.254.28
                                                                  80:31838/TCP
                                                                                 12m
kubernetes
                   ClusterIP
                                  10.0.0.1
                                                                  443/TCP
                                                  <none>
                                                                                 38m
```

- 8. Run the below command to check the pods status is in running state
  - kubectl get pods

**9.** Copy the External Ip and paste it in the Web Browser and the application is up-end and running.

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
azure-vote-back	ClusterIP	10.0.67.204	<none></none>	6379/TCP	12m
azure-vote-front	LoadBalancer	10.0.227.112	20.241.254.28	80:31838/TCP	12m
kubernetes	ClusterIP	10.0.0.1	<none></none>	443/TCP	38m

10. After Deploying "Voting App" using Azure Kubernetes Cluster Service:

