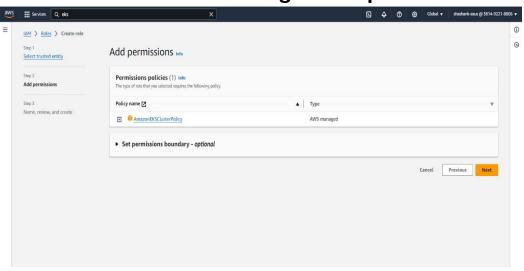
CDEC B24

Name: Kunal vijay Chavhan

Task: Hosting of nginx and tomcat using manifest file

1. Create IAM role for EKS and give EKS permission



2. Create IAM role for EC2 and give permission as below.

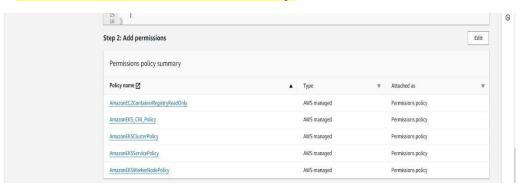
AmazonEC2ContainerRegistryReadonly

AmazonEKS_CNI_Policy

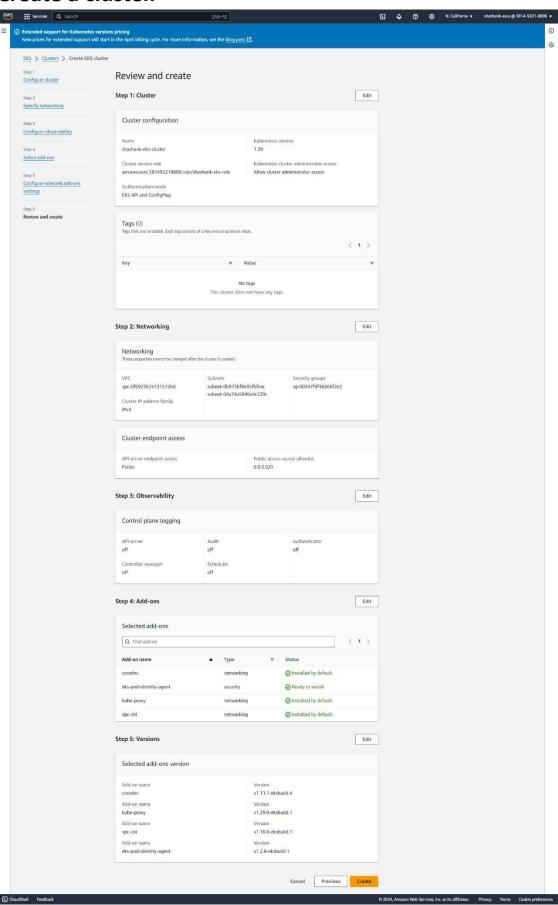
AmazonEKSClusterPolicy

AmazonEKSServicePolicy

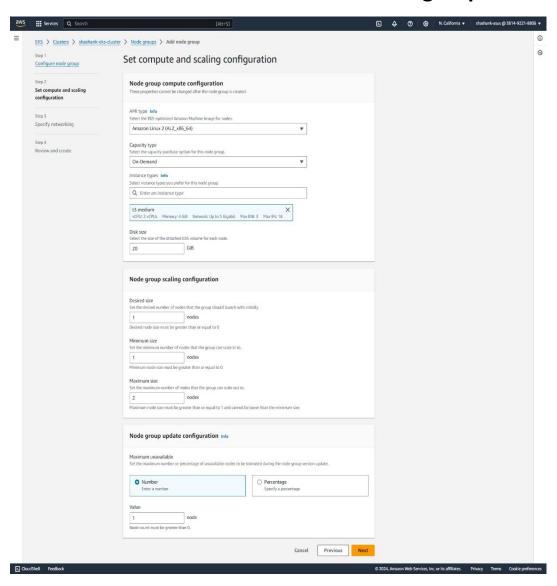
AmazonEKSWorkerNodePolicy



3. Create a cluster.



4. After creation of cluster add node group to it.



5. After adding node group to the cluster open cloud shell and configure it using command.

aws configure

(add your access key, secrete access key, region)

```
[cloudshell-user@ip-18-148-121-42 ~]$ aws configure

AMS Access Key ID [None]: A

AMS Scert Access Key ID [None]:
Default region name [None]:
Default region name [None]:
Default region name [None]:
Default region name [None]:
Default sutput format [None]:
Cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl: command not found
[cloudshell-user@ip-18-148-121-42 ~]$ kubctl cluster-info
-bash: kubctl cluster-info dump'.

The connection to the server localhost: 8888 was refused - did you specify the right host or port?
[cloudshell-user@ip-18-148-121-42 ~]$ was connect: connection refused

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

The connection to the server localhost: 8888 was refused - did you specify the right host or port?
[cloudshell-user@ip-18-148-121-42 ~]$ was connect; connection refused

To further debug and diagnose cluster problems, use 'kubectl cluster-info
-bash: luster-info
-ba
```

6. Know create a pod and expose it after that get port configure it using command of nginx.
#aws eks --region us-east-1 update-kubeconfig -- name eks-cluster(cluster name).
#kubectl run nginx --image=nginx
kubectl expose pod nginx --port=80 --target-port=80 --type=NodePort
#kubectl get service

7. Know Host the IP Address of instance with the container port on web page.



8. Know for Tomcat create a pod and expose it after that get port configure it using command.

#kubectl run tomcat –image=tomcat

kubectl expose pod tomcat --port=8080 --targetport=8080 --type=NodePort

#kubectl get service

9. Know Host the IP Address of instance with the container port on web page.

