CDEC B24

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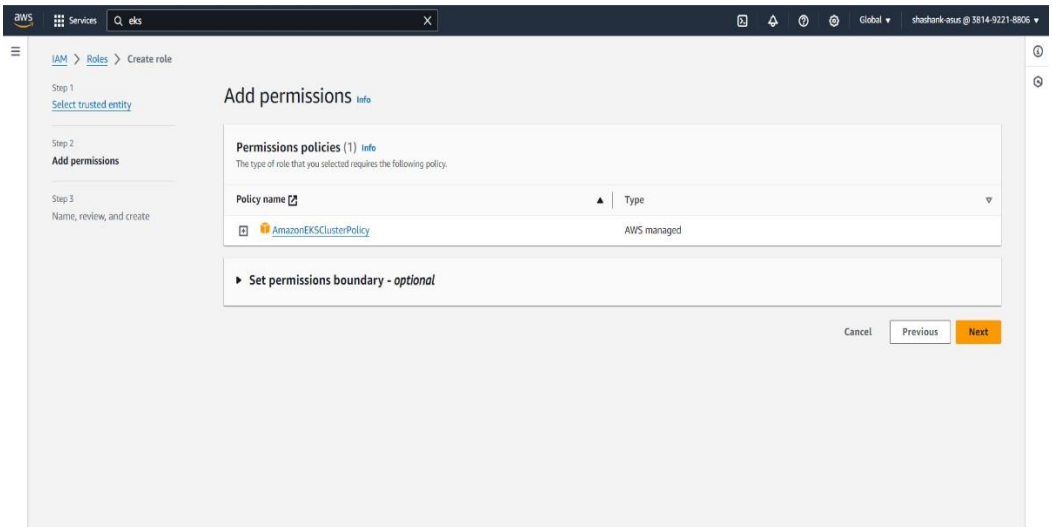
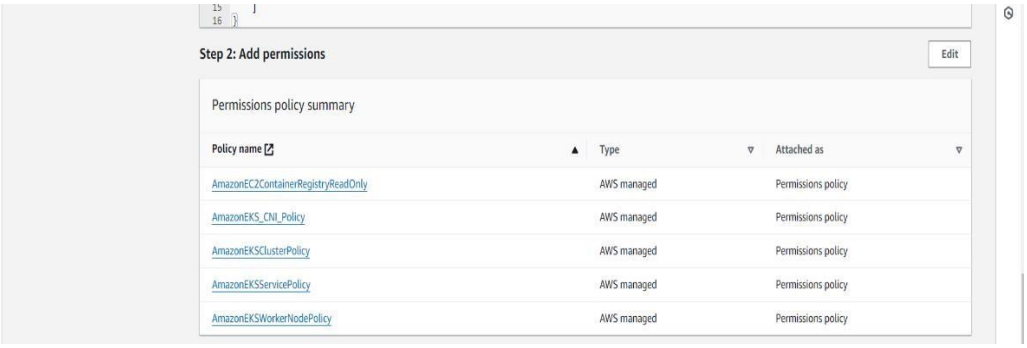
Task: Hosting of nginx and tomcat using manifest file

1. **Create IAM role for EKS and give EKS permission**

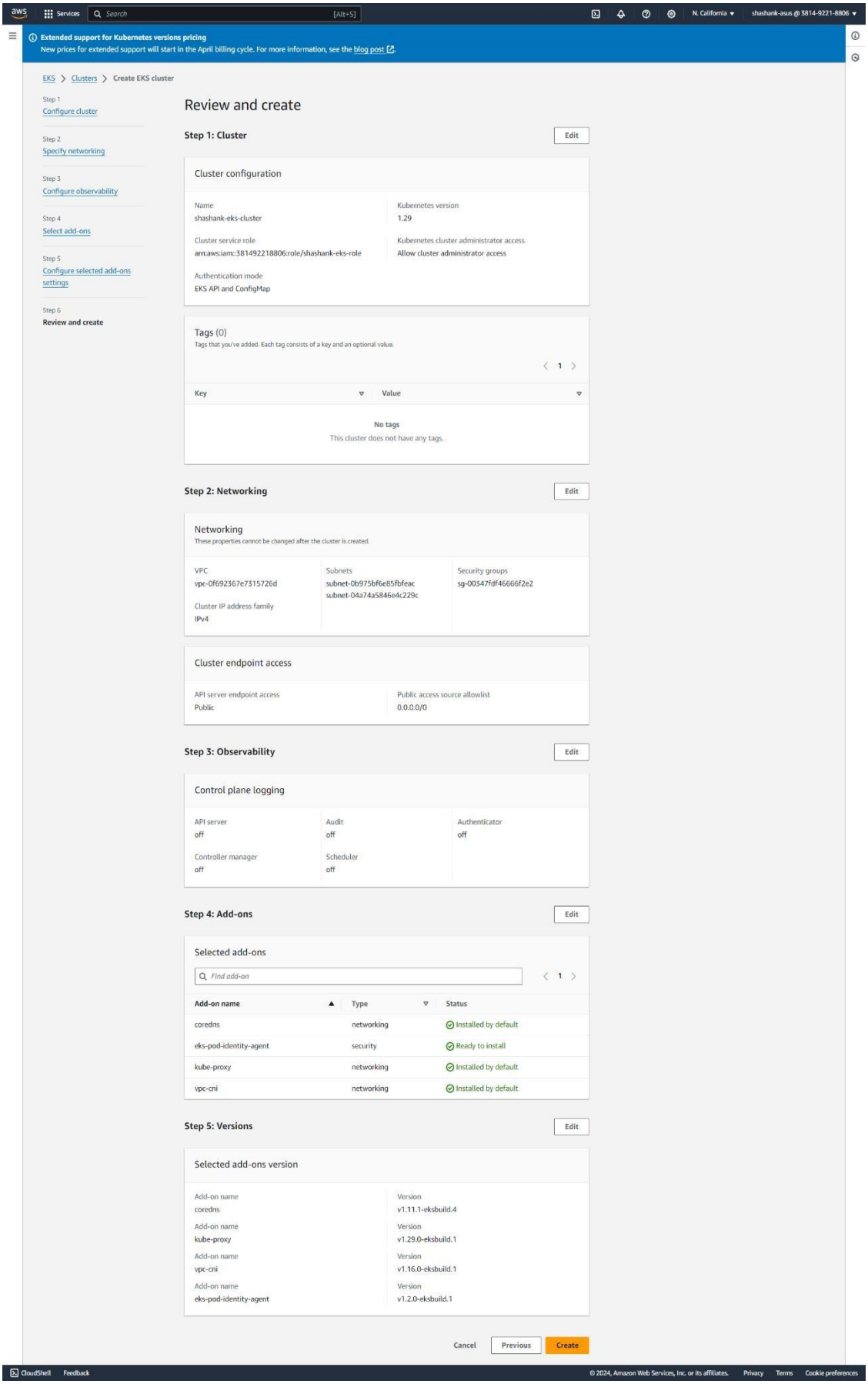


2. **Create IAM role for EC2 and give permission as below.**

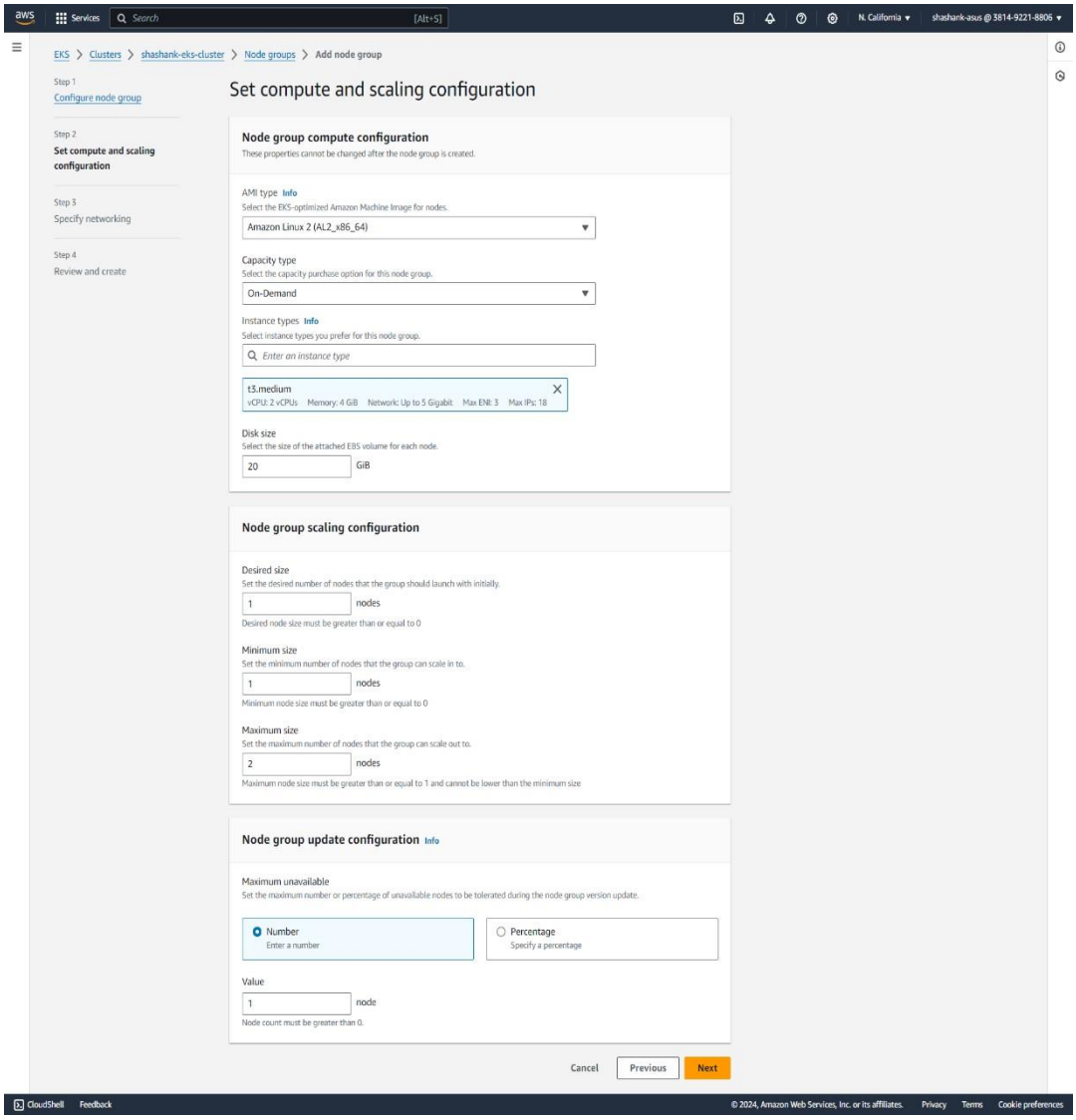
AmazonEC2ContainerRegistryReadonly
AmazonEKS_CNI_Policy
AmazonEKSClusterPolicy
AmazonEKSServicePolicy
AmazonEKSWorkerNodePolicy



3. Create a cluster.



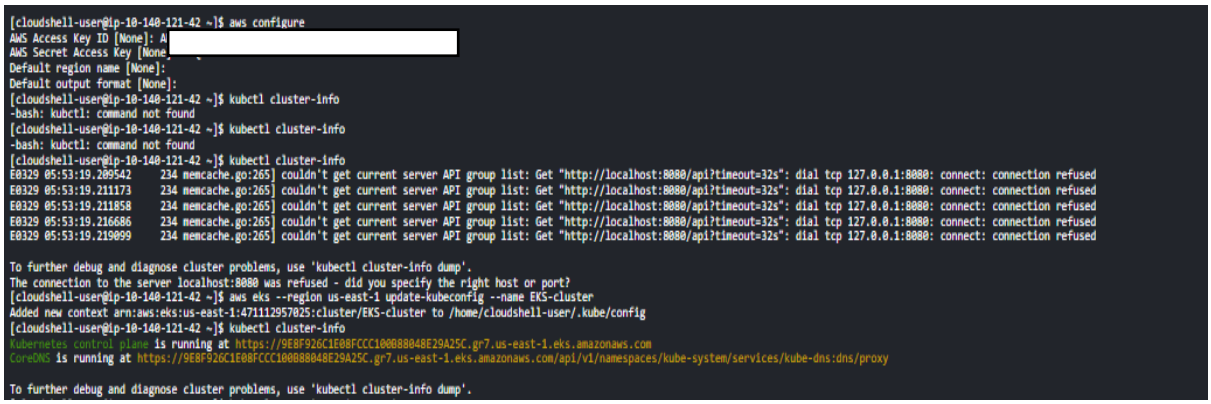
4. After creation of cluster add node group to it.



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)



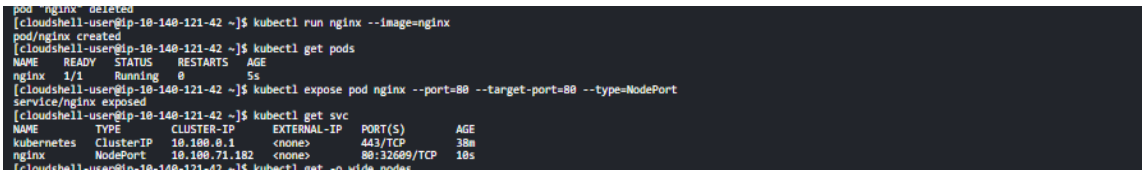
6. **Know create a pod and expose it after that get port configure it using command of nginx.**

   #aws eks --region us-east-1 update-kubeconfig --name eks-cluster(cluster name).

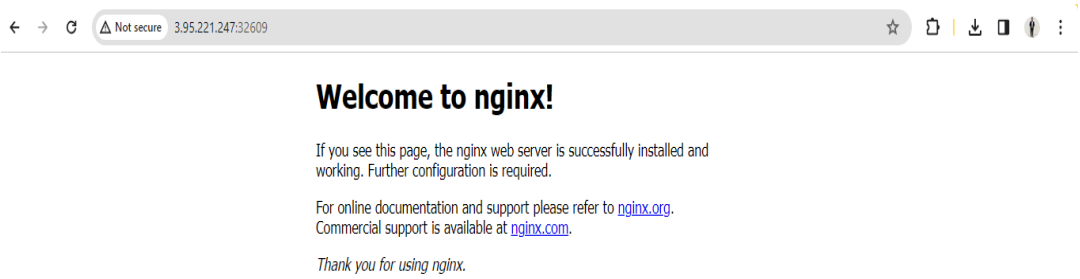
   #kubectl run nginx –image=nginx

   # 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.**

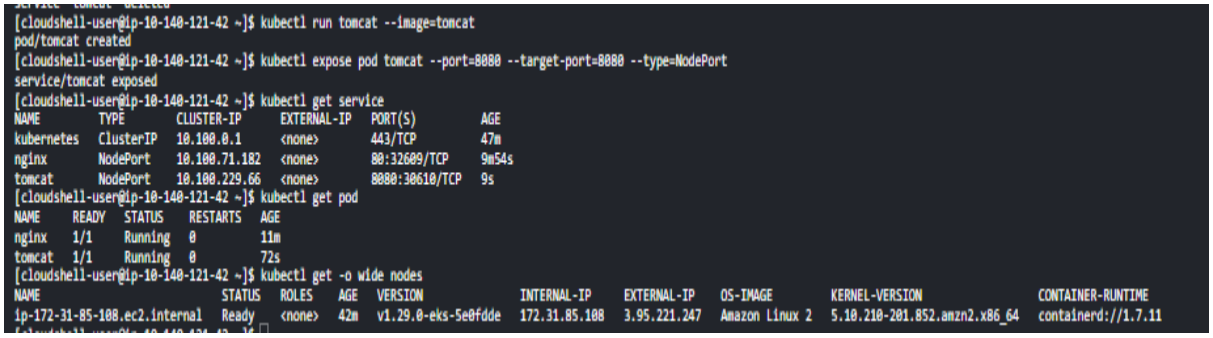


8. **Know for Tomcat create a pod and expose it after that get port configure it using command.**

   #kubectl run tomcat –image=tomcat

   # kubectl expose pod tomcat --port=8080 --target-port=8080 --type=NodePort

   #kubectl get service



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