K8s EKS

deployment of Nginx application

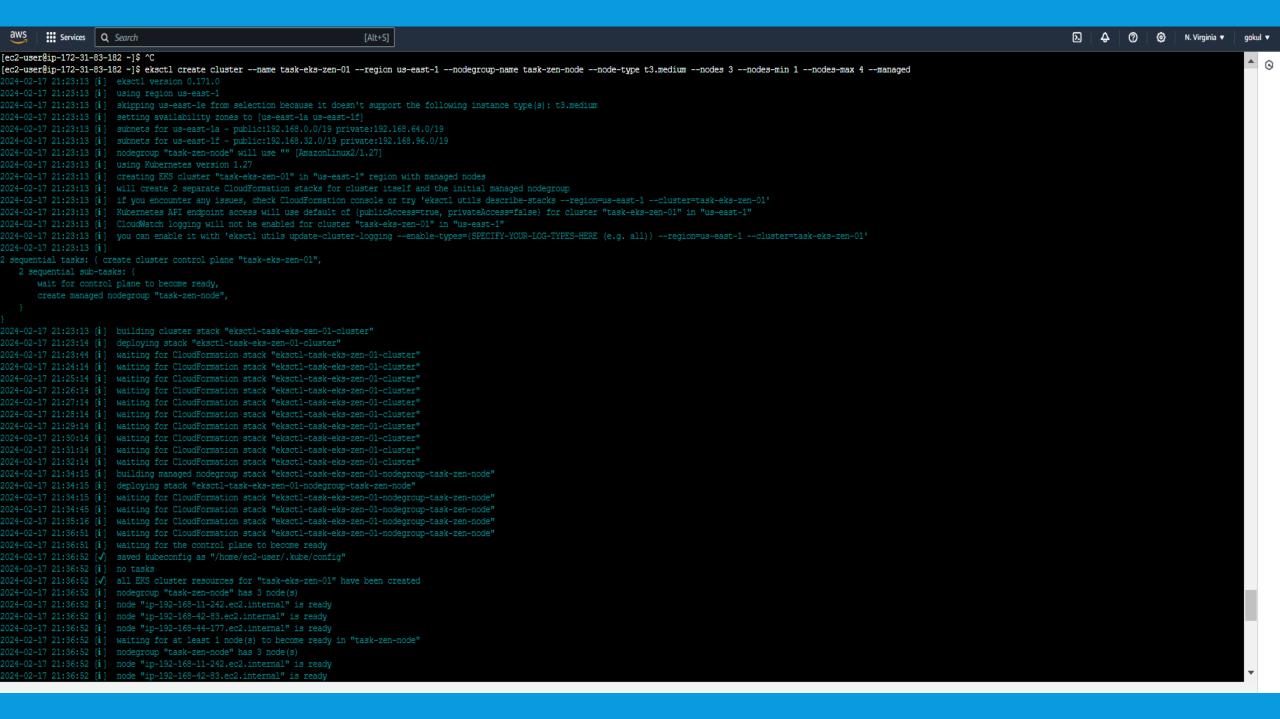
Create Cluster

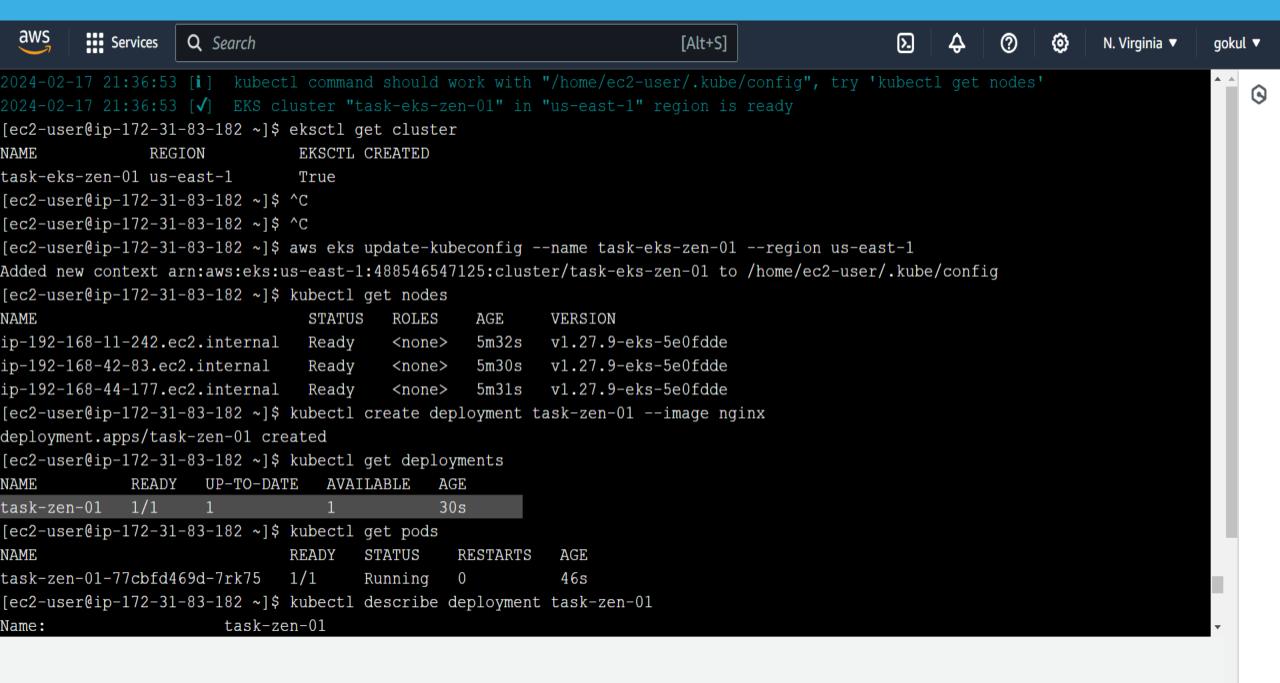
eksctl create cluster --name task-eks-zen-o1 --region us-east-1 --nodegroup-name task-zen-node --node-type t3.medium --nodes 3 --nodes-min 1 —-nodes-max 4 --managed

eksctl get cluster

aws eks update-kubeconfig --name task-eks-zen-o1 --region us-east-1

kubectl get nodes





Deployment

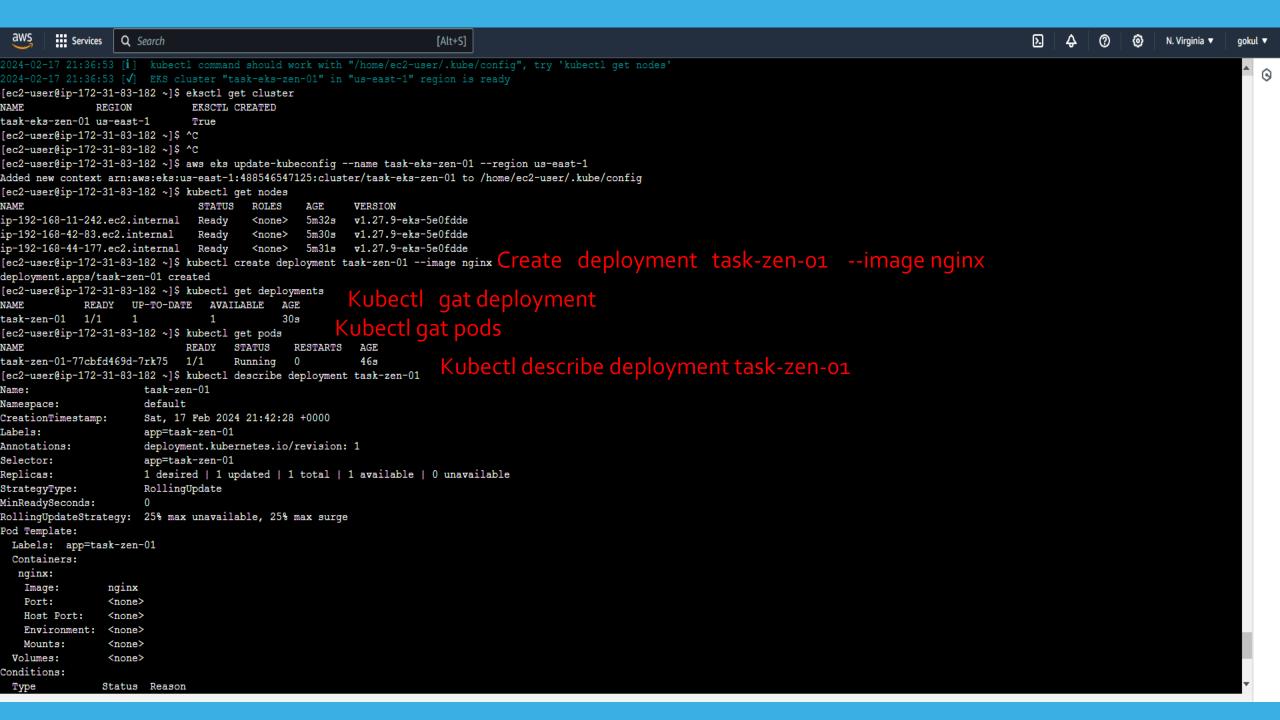
Create deployment task-zen-o1 --image nginx

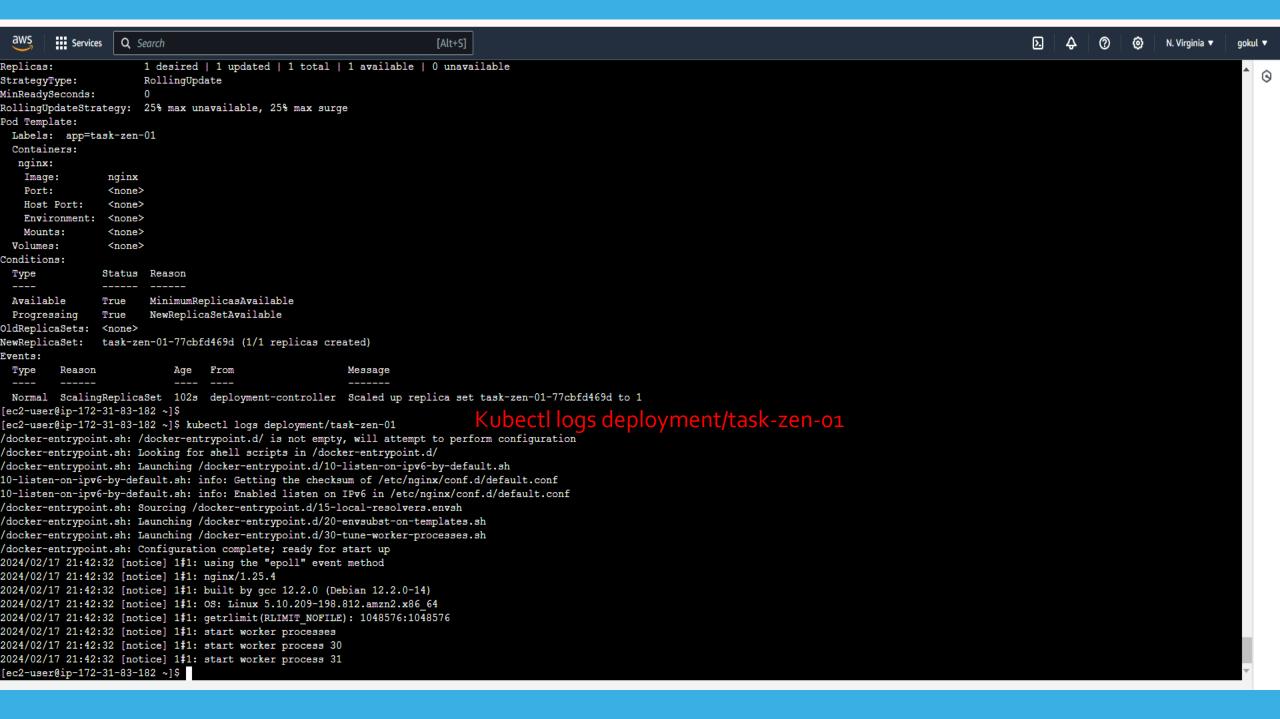
Kubectl gat deployment

Kubectl gat pods

Kubectl describe deployment task-zen-o1

Kubectl logs deployment/task-zen-o1





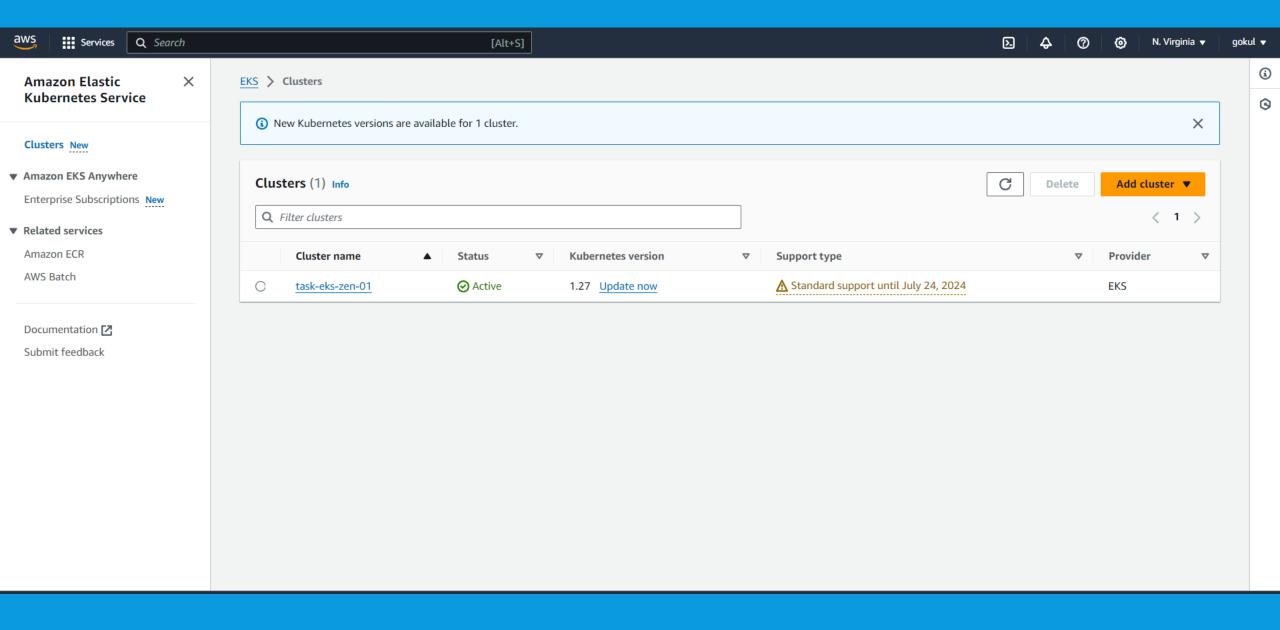
```
[ec2-user@ip-172-31-83-182 ~] $ kubectl create deployment task-zen-01 --image nginx
deployment.apps/task-zen-01 created
[ec2-user@ip-172-31-83-182 ~]$ kubectl get deployments
             READY UP-TO-DATE AVAILABLE
NAME
                                             AGE
task-zen-01 1/1 1
                                             30s
[ec2-user@ip-172-31-83-182 ~]$ kubectl get pods
NAME
                              READY
                                     STATUS
                                               RESTARTS
                                                          AGE
task-zen-01-77cbfd469d-7rk75
                             1/1
                                     Running
                                                          46s
[ec2-user@ip-172-31-83-182 ~]$ kubectl describe deployment task-zen-01
                       task-zen-01
Name:
                       default
Namespace:
CreationTimestamp:
                       Sat, 17 Feb 2024 21:42:28 +0000
Labels:
                    app=task-zen-01
Annotations:
                       deployment.kubernetes.io/revision: 1
Selector:
                       app=task-zen-01
Replicas:
                       1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrateqyType:
                       RollingUpdate
MinReadySeconds:
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
 Labels: app=task-zen-01
 Containers:
  nginx:
                 nginx
   Image:
   Port:
                 <none>
   Host Port: <none>
   Environment: <none>
                 <none>
   Mounts:
  Volumes:
                 <none>
Conditions:
```

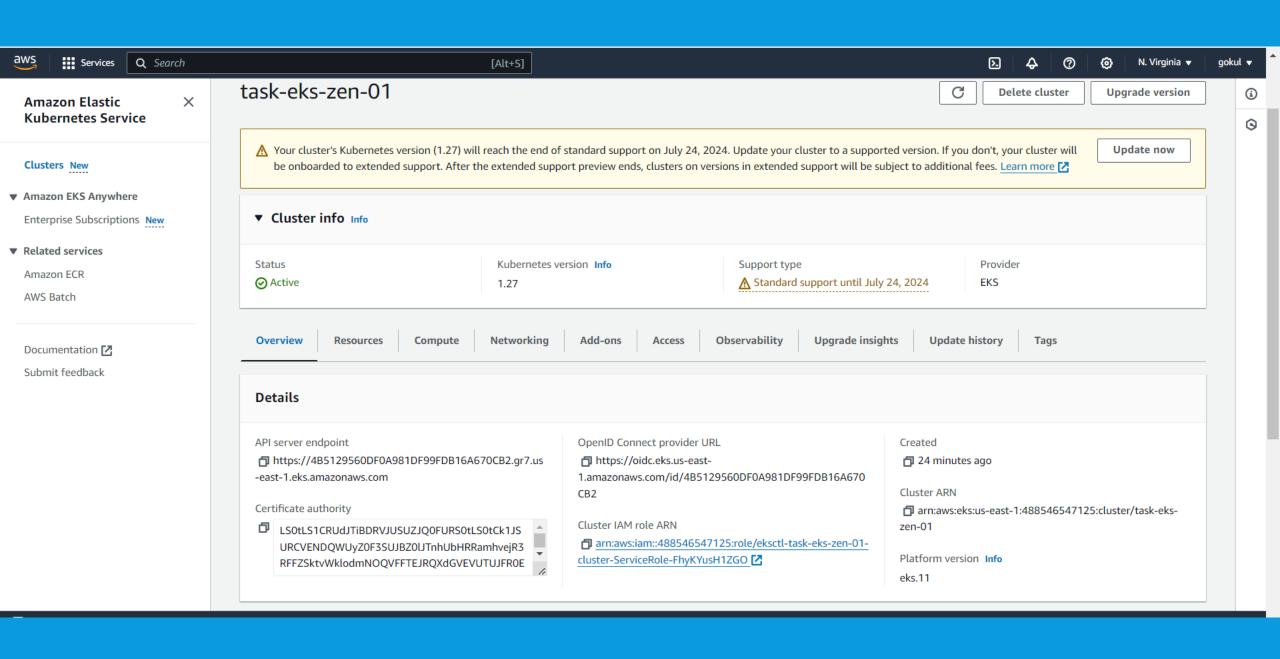
Deployment logs

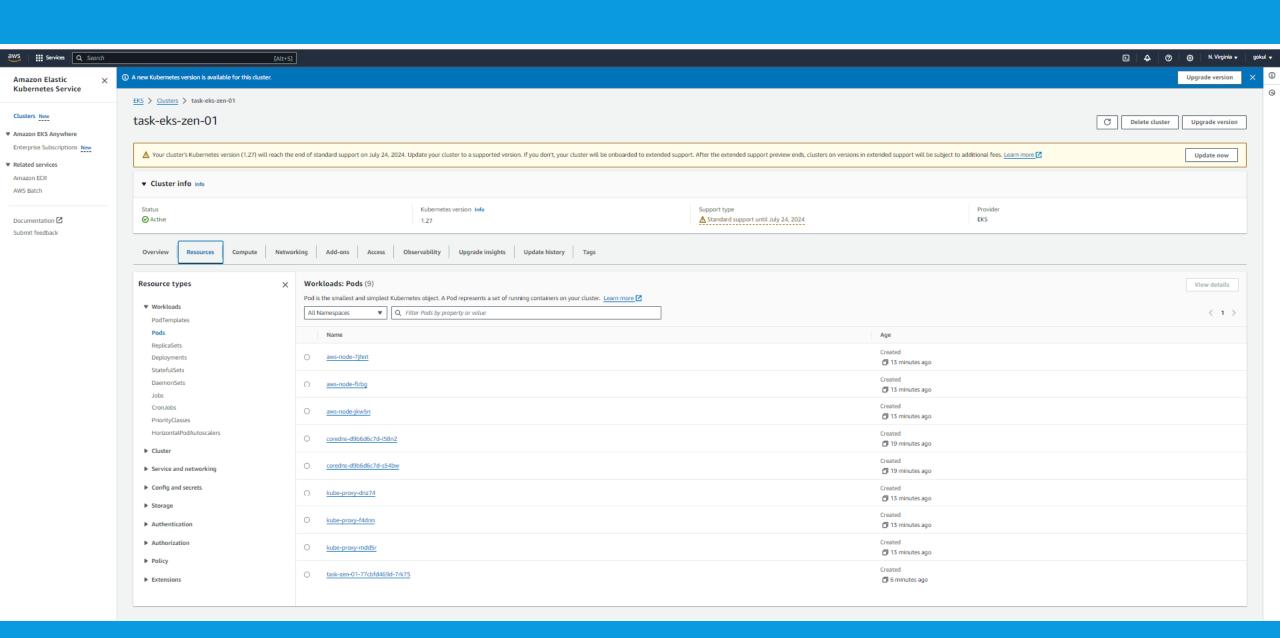
```
[ec2-user@ip-172-31-83-182 ~]$ kubectl logs deployment/task-zen-01
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/02/17 21:42:32 [notice] 1#1: using the "epoll" event method
2024/02/17 21:42:32 [notice] 1#1: nginx/1.25.4
2024/02/17 21:42:32 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/02/17 21:42:32 [notice] 1#1: OS: Linux 5.10.209-198.812.amzn2.x86 64
2024/02/17 21:42:32 [notice] 1#1: getrlimit(RLIMIT NOFILE): 1048576:1048576
2024/02/17 21:42:32 [notice] 1#1: start worker processes
2024/02/17 21:42:32 [notice] 1#1: start worker process 30
2024/02/17 21:42:32 [notice] 1#1: start worker process 31
[ec2-user@ip-172-31-83-182 ~]$
```

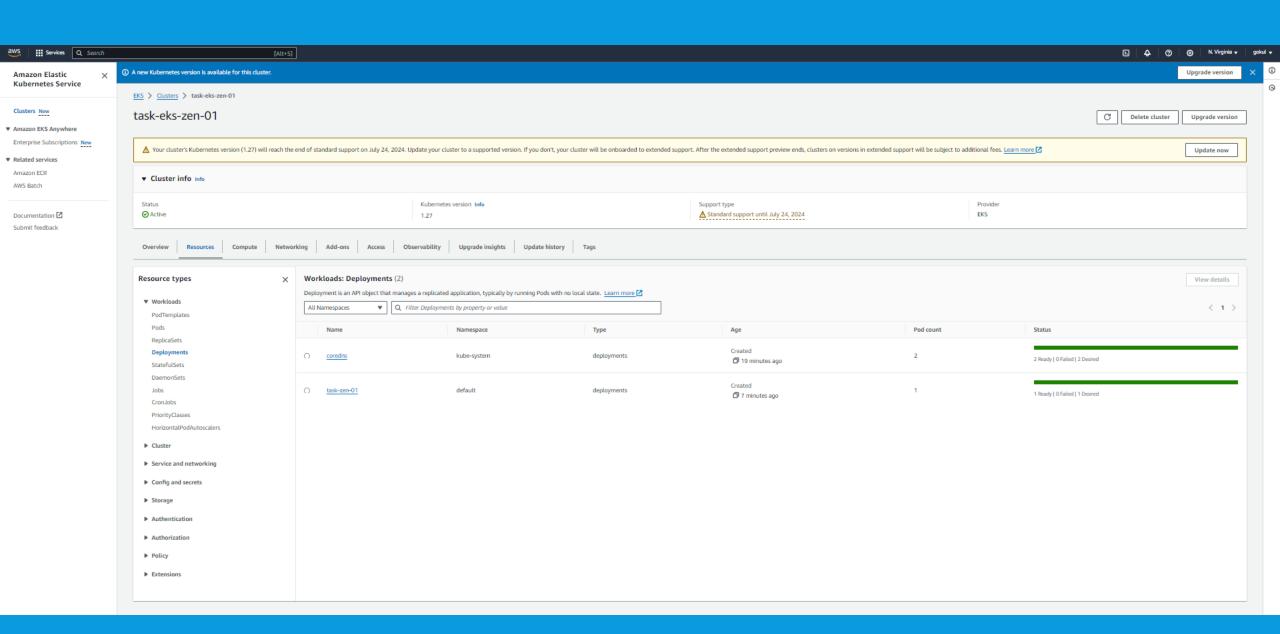
Graphical Interface Output

Cluster

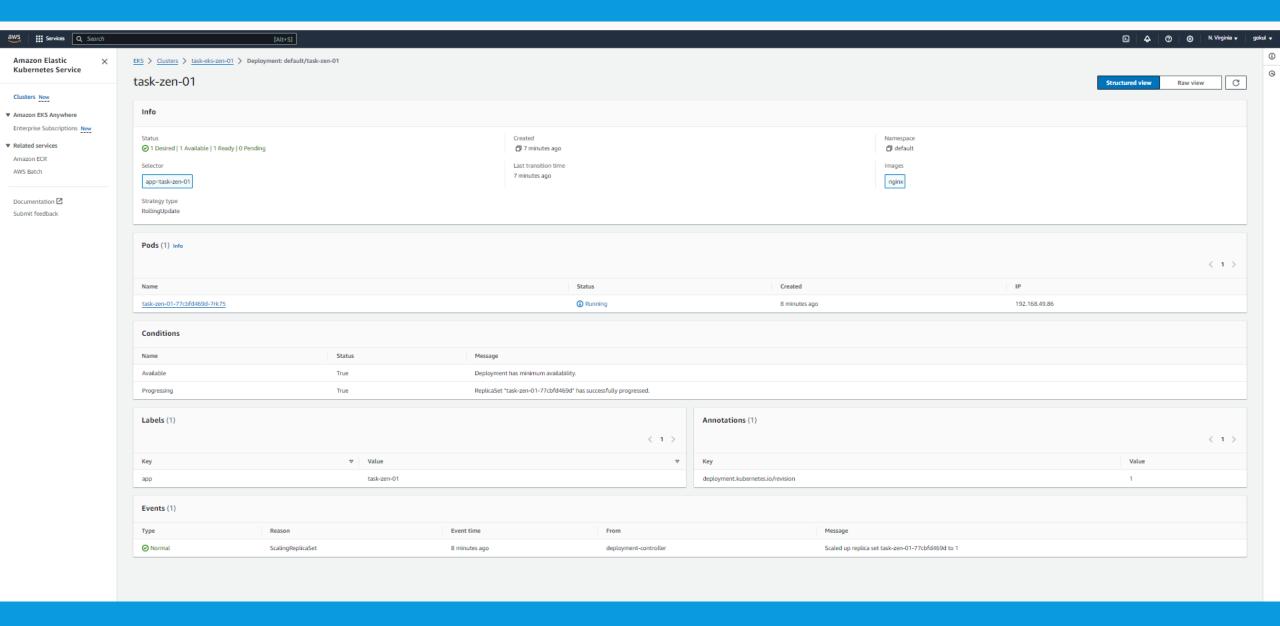


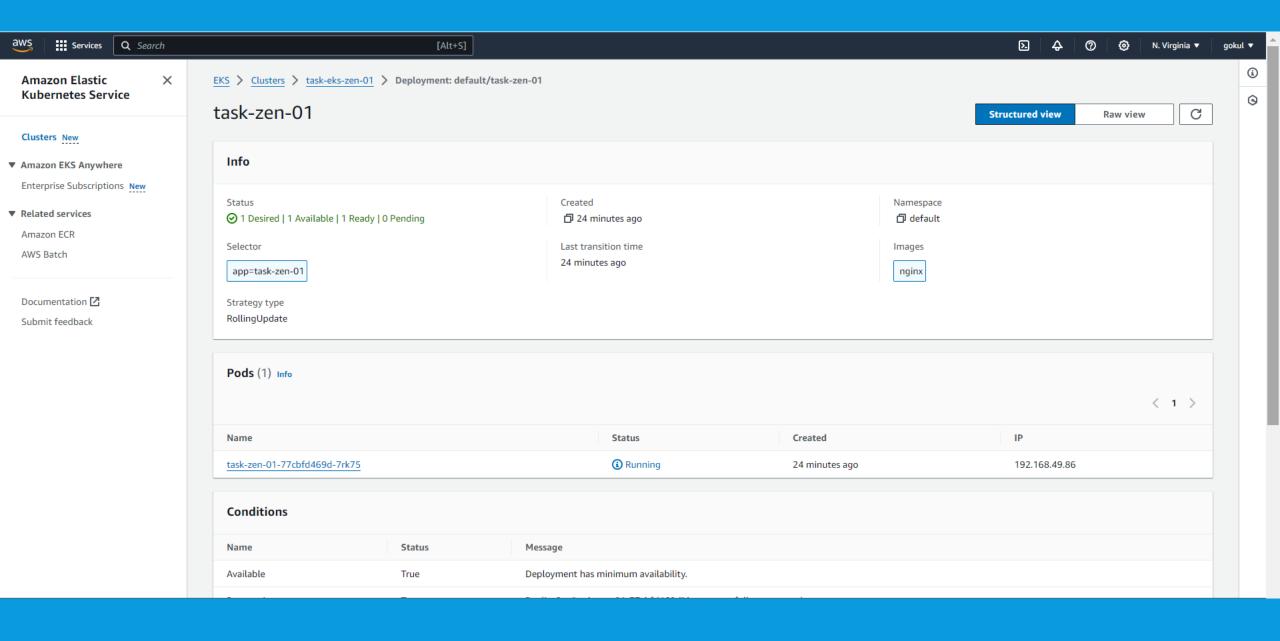


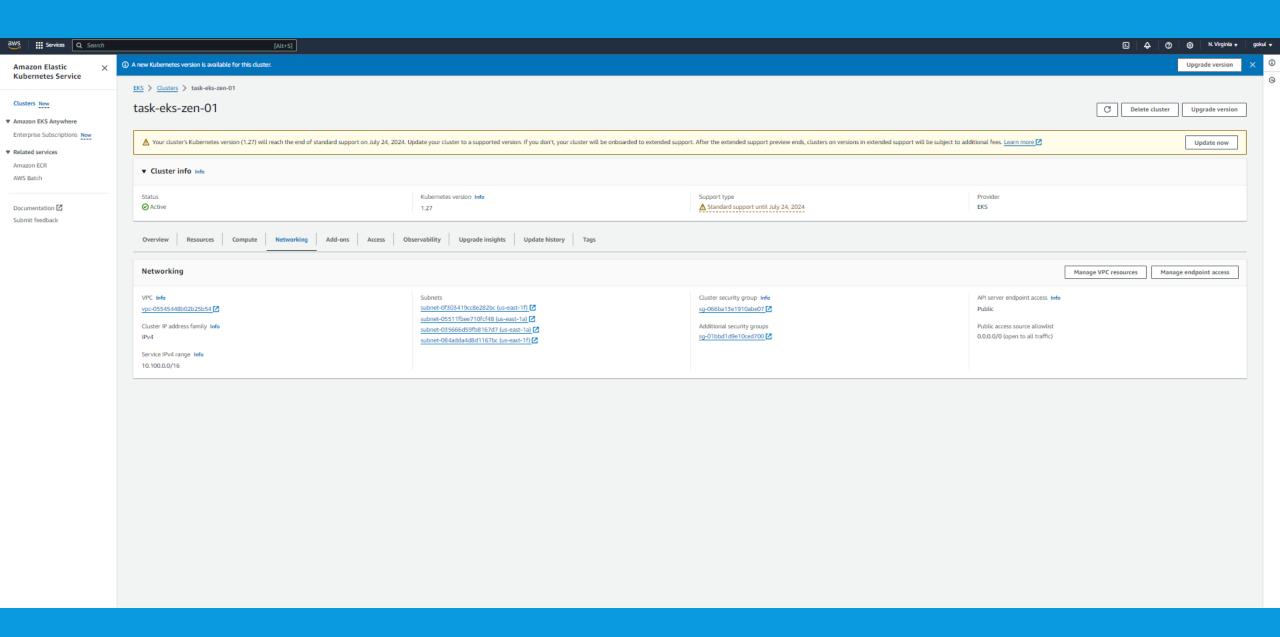




Deployment







Thank You.....