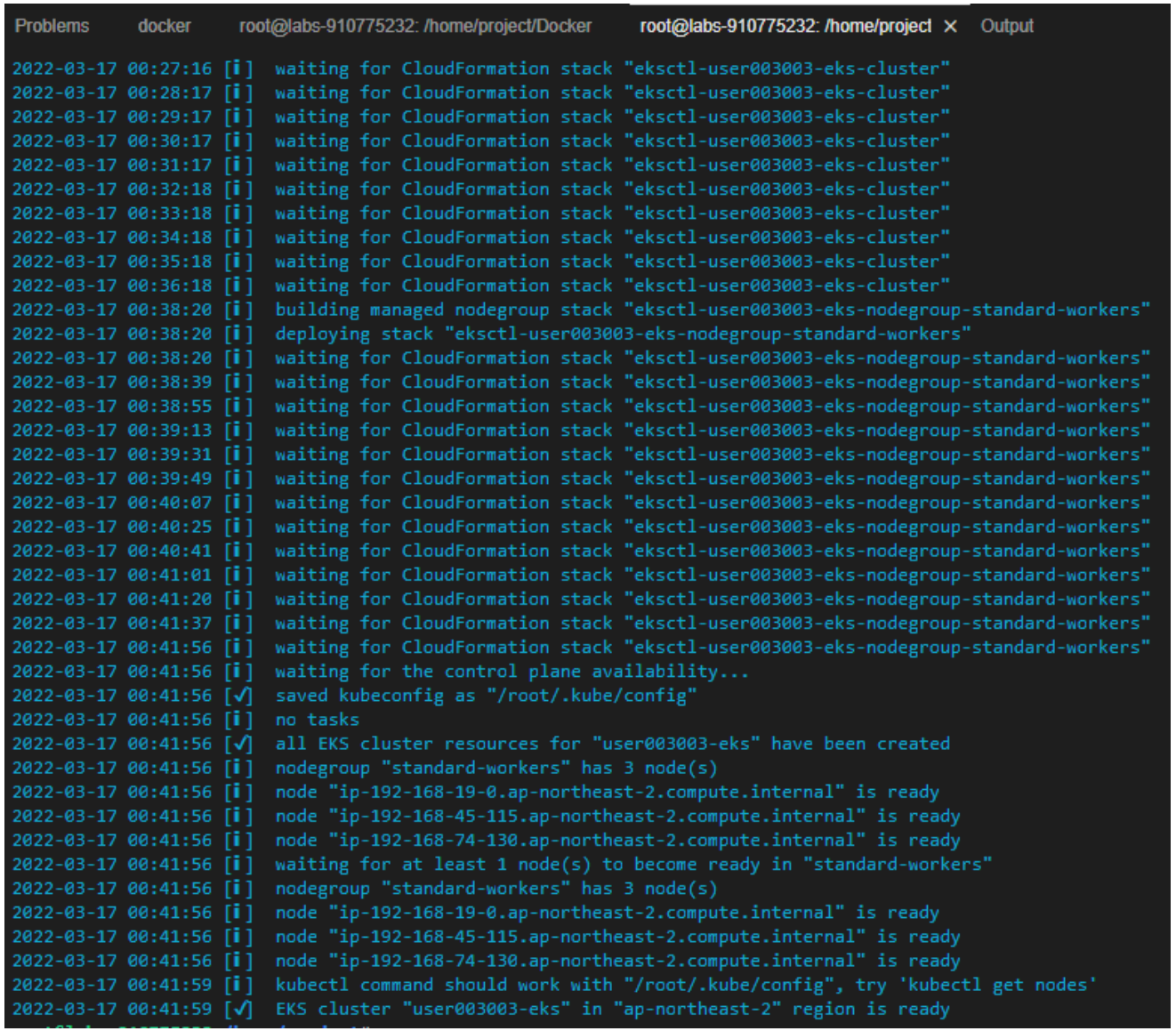
AWS 클러스터 생성 (EKS : Elastic Kubernetes Service 생성하기)

```
eksctl create cluster --name (Cluster-Name) --version 1.21 --nodegroup-name standard-workers --node-type t3.medium --nodes 3 --nodes-min 1 --nodes-max 3
```



EKS란?
클라우드 또는 온프레미스에서 Kubernetes 애플리케이션을 실행하고 크기를 조정하는 관리형 컨테이너 서비스

AWS 클러스터 토큰 가져오기

```
aws eks --region (Region-Code) update-kubeconfig --name (Cluster-Name)
kubectl get all
 # 클러스터 설정확인
kubectl config current-context
```

```
root@labs-910775232:/home/project# aws eks --region ap-northeast-2 update-kubeconfig --name user003003-eks

Added new context arn:aws:eks:ap-northeast-2:979050235289:cluster/user003003-eks to /root/.kube/config
root@labs-910775232:/home/project#
root@labs-910775232:/home/project# kubectl get all
NAME                 TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.100.0.1   <none>        443/TCP   13m
root@labs-910775232:/home/project# kubectl config current-context
arn:aws:eks:ap-northeast-2:979050235289:cluster/user003003-eks
```

Metric-Server 설치

```
kubectl apply -f https://github.com/kubernetes-sigs/metrics-server/releases/latest/download/components.yaml
```

```
root@labs-910775232:/home/project# kubectl apply -f https://github.com/kubernetes-sigs/metrics-server/releases/latest/download/components.yaml
serviceaccount/metrics-server created
clusterrole.rbac.authorization.k8s.io/system:aggregated-metrics-reader created
clusterrole.rbac.authorization.k8s.io/system:metrics-server created
rolebinding.rbac.authorization.k8s.io/metrics-server-auth-reader created
clusterrolebinding.rbac.authorization.k8s.io/metrics-server:system:auth-delegator created
clusterrolebinding.rbac.authorization.k8s.io/system:metrics-server created
service/metrics-server created
deployment.apps/metrics-server created
apiservice.apiregistration.k8s.io/v1beta1.metrics.k8s.io created
```

Metrics Server는 Kubernetes 의 컴포넌트들에 대한 자원 모니터링이 가능해지며 이것을 이용해 Autoscaling 에도 사용이 가능하다.

WorkerNode 확인 : kubectl top node

```
root@labs-910775232:/home/project# kubectl top node
NAME                                               CPU(cores)   CPU%   MEMORY(bytes)   MEMORY%
ip-192-168-19-0.ap-northeast-2.compute.internal    46m          2%     485Mi           14%
ip-192-168-45-115.ap-northeast-2.compute.internal  236m         12%    487Mi           14%
ip-192-168-74-130.ap-northeast-2.compute.internal  45m          2%     486Mi           14%
```

3개인 이유는?
앞서 AWS 클러스터 생성시 워커노드 3개를 생성하겠다고 함