GitOps & Crossplane Assignment

1. Install ArgoCD on Kubernetes cluster

Create namespace for ArgoCD

```
quytran@VNNOT01796:/mnt/d/training/GitOps-Crossplane$ minikube kubectl create namespace argood namespace/argood created quytran@VNNOT01796:/mnt/d/training/GitOps-Crossplane$ minikube kubectl get namespace NAME STATUS AGE argood Active 20s default Active 40m kube-node-lease Active 40m kube-public Active 40m kube-system Active 40m
```

Install ArgoCD helm chart

```
### Application of the first time you can login with username: admin and the random password generated during the installation. You can find the password by running:

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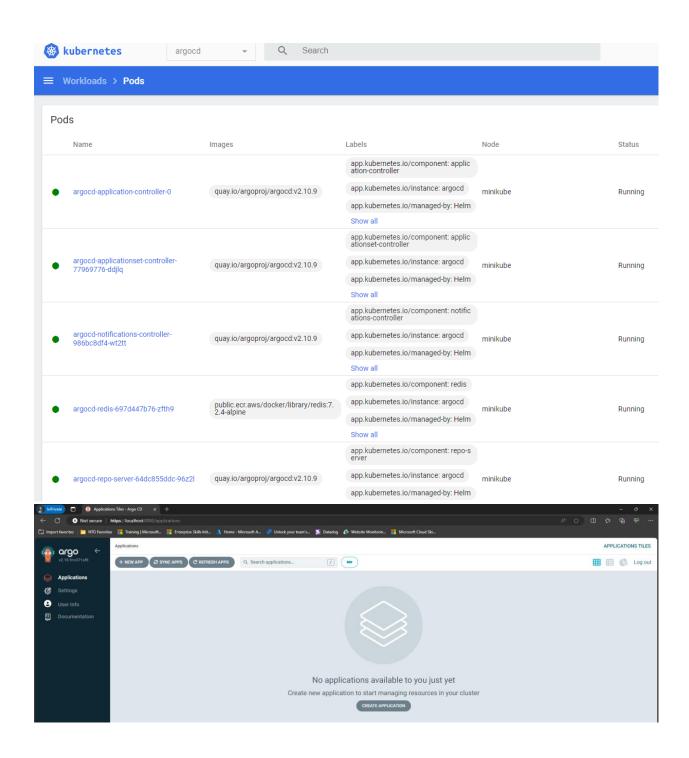
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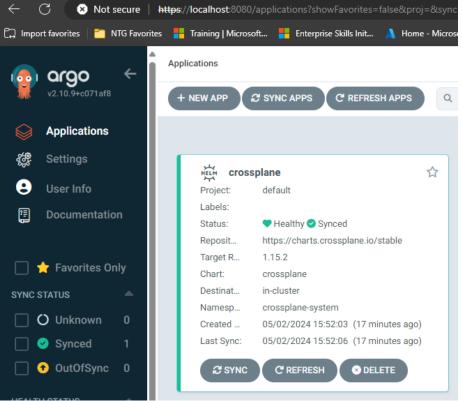
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```



Install Crossplane

```
crossplane-application.yaml > {} spec > {} destination
     apiVersion: argoproj.io/v1alpha1
     kind: Application
     metadata:
       name: crossplane
     spec:
       destination:
 6
         namespace: crossplane-system
         server: 'https://kubernetes.default.svc'
       source:
         repoURL: 'https://charts.crossplane.io/stable'
         targetRevision: 1.15.2
11
12
         chart: crossplane
13
       sources: []
       project: default
15
       syncPolicy:
         automated:
17
           prune: true
           selfHeal: true
         syncOptions:
            - CreateNamespace=true
21
```



2. Create an EKS cluster using Crossplane

Create an AWS secret

```
s-Crossplane$ minikube kubectl -- create secret generic aws-secret -n crossplane-system --from-file=creds=aws-credentials.t
AL
secret/aws-secret created
quytran@VNNOT01796:/mnt/d/training/GitOps-Crossplane$ minikube kubectl -- get secret/aws-secret -o yaml -n crossplane-system
apiVersion: v1
creds: W2R1ZmF1bHRdDQphd3Nf7WNjZXNzXztleV9pZCA9IEFLSUFRNVJLRVhIQ0dQS0RPT001DQphd3Nfc2VjcmV0X2FjY2Vzc19rZXkgPSB0d2xuNUI4QTdZUldkayt0ZGk1TjZSYWh6bWQ1YmJMNDFKN2JQUE
netadata:
 etadata:

creationTimestamp: "2024-05-03T06:40:192"

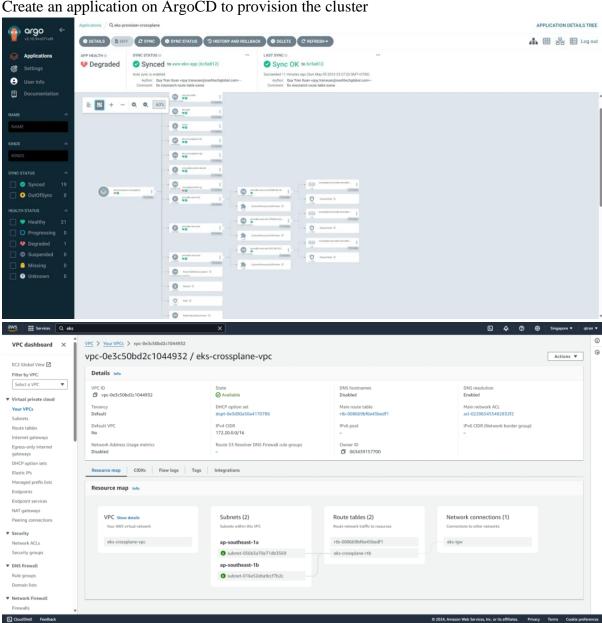
name: aws-secret

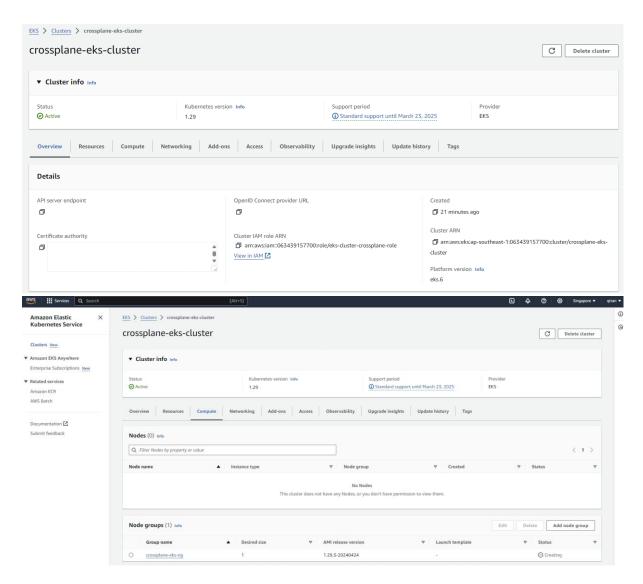
namespace: crossplane-system

resourceVersion: "24090"

uid: ab9a9907-4ecb-475b-9fd3-094e97f28be7
```

Create an application on ArgoCD to provision the cluster





3. Create an AKS cluster

Create Azure secret

```
quytran@DESKTOP-04D0AGS:/mmt/d/DevOps/gitops-crossplane$ minikube kubectl -- get secret/azure-secret -n crossplane-system -o yaml
apiNersion: Y1
data:
creds: esWECOp[C]jkG|lbmRJZC16ICTuAtcdiZGYSZ10yZTUBLTHNDgtCMIZM:04MIXQMCDkYNR;OWMiLAGKICQp[C]jkG|lbmRJZMNyZVQjOiAibkpvOFF-HmeCNANwaAkSYZWNTWl:MNMhtcDjzYkVGQZVrdZSWSGJKQSIsDQogICAgInNIYnNjcmlud
klkljogIjjiZmWDZmE4LTFjYZYtMSEONiINYTJLITQyZWRiZTMSZjkzWCIsDQogICAgInNlbmVudElkIjogIjglZWY3OTAOLTIjNZUHDpyNiIiMzJyLWQZOGI3NzcZNQQWSINCn0=
kind: secret
metadata:
creationTimestamp: "2024-05-08T17:13:542"
name: azure-secret
namespace: crossplane-system
resourceVeresion: "20448"
uid: 9f4c72a5-5014-40ab-86de-9a29560906a0
type: Opaque
```

Create an application on ArgoCD

