

LAB ASSIGNMENTS 7: AWS EKS

What is Amazon EKS?

Amazon EKS is a managed service that is used to run Kubernetes on AWS. Using EKS users don't have to maintain a Kubernetes control plane on their own. It is used to automate the deployment, scaling, and maintenance of the containerized application. It works with most operating systems.

Benefits of Amazon EKS

Normally time-consuming tasks, such as constructing the Kubernetes master cluster and setting service discovery, Kubernetes primitives, and networking, are handled by AWS EKS.

Existing tools will almost certainly work through EKS with minimal if any, modifications.

The Kubernetes control plane, comprising the backend persistence layer and API servers, is provisioned and scaled across multiple AWS availability zones using Amazon EKS, resulting in high availability and the elimination of a single point of failure.

Unhealthy control plane nodes are identified and replaced, and control plane patching is given. As a result, an AWS-managed Kubernetes cluster that can endure the loss of an availability zone has been created.

Amazon EKS cluster setup:

1. using UI console (we should not do it)
2. using Terraform
3. Using eksctl

In this lab you need to configure EKS using eksctl

3. Using eksctl

The screenshot shows the AWS EC2 Instances details page for an instance named i-04f31623372b56cca. The instance is currently running. Key details shown include its public IPv4 address (3.108.237.109), private IPv4 address (172.31.0.146), and public IPv4 DNS name (ec2-3-108-237-109.ap-south-1.compute.amazonaws.com). The instance type is t2.micro. The interface also displays the instance ID, IPv6 address (none listed), hostname type (IP name: ip-172-31-0-146.ap-south-1.compute.internal), and answer private resource DNS name (IPv4 (A)). The left sidebar shows navigation options like Dashboard, EC2 Global View, and Events, along with sections for Instances and Images.

```
3.108.237.109 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/ubuntu/
  ▾ Name
    .cache
    .ssh
    .bash_logout
    .bashrc
    .profile
    .Xauthority
  ▾ Remote monitoring
allow terminal fold

[2.3.108.237.109 (ubuntu)] x + [2.3.108.237.109 (ubuntu)]
ubuntu@ip-172-31-0-146:~/demo$ wget https://github.com/eksctl-io/eksctl/releases/download/v0.204.0/eksctl_Linux_amd64.tar.gz
--2025-02-25 11:00:50-- https://github.com/eksctl-io/eksctl/releases/download/v0.204.0/eksctl_Linux_amd64.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com) [20.207.73.82]:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/134539560/3ae52b00-aef5a-474f-b65a-85p8ae7592f0?X-Amz-Content-MD5=AW54-HMAC-SHA256X-Amz-Credential=releaseassetproduction%2F20250225%2Fus-east-1%2Fes%3F2Faws4_request&X-Amz-Date=20250225T0105914ZGX-Amz-Expires=300X-Amz-Signature=40d06cb334dff388b9bb49011672fd079eb5510fcfae1808b6fb7ab5e22874GX-Amz-SignedHeaders=host&response-content-disposition=attachment%3Bfilename%3Deksctl_Linux_amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2025-02-25 11:00:50-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/134539560/3ae52b00-aef5a-474f-b65a-85p8ae7592f0?X-Amz-Algorithm=AWS4-HMAC-SHA256X-Amz-Credential=releaseassetproduction%2F20250225%2Fus-east-1%2Fes%3F2Faws4_request&X-Amz-Date=20250225T0105914ZGX-Amz-Expires=300X-Amz-Signature=40d06cb334dff388b9bb49011672fd079eb5510fcfae1808b6fb7ab5e22874GX-Amz-SignedHeaders=host&response-content-disposition=attachment%3Bfilename%3Deksctl_Linux_amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.110.133, 185.199.111.133, 185.199.109.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)[185.199.110.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 308989216 (37M) [application/octet-stream]
Saving to: "eksctl_Linux_amd64.tar.gz"

eksctl_Linux_amd64.tar.gz      100%[=====] 37.18M   108MB/s   in 0.3s

2025-02-25 11:00:52 (108 MB/s) - 'eksctl_Linux_amd64.tar.gz' saved [308989216/308989216]

ubuntu@ip-172-31-0-146:~/demo$ ls
eksctl_Linux_amd64.tar.gz
ubuntu@ip-172-31-0-146:~/demo$
```

```
ubuntu@ip-172-31-0-146:~/demo$ eksctl version  
0.204.0  
ubuntu@ip-172-31-0-146:~/demo$ █
```

```
root@ip-172-31-0-146:/home/ubuntu/demo# kubectl version
Client Version: v1.32.0-eks-5ca49cb
Kustomize Version: v5.5.0
The connection to the server localhost:8080 was refused - did you specify the right host or port?
root@ip-172-31-0-146:/home/ubuntu/demo# vim eks.yaml
root@ip-172-31-0-146:/home/ubuntu/demo# cat eks.yaml
apiVersion: eksctl.io/v1alpha5
Kind: ClusterConfig

metadata:
  name: rahul-cluster
  region: ap-south-1

nodeGroups:
  - name: ng-1
    instanceType: t2.micro
    desiredCapacity: 2
root@ip-172-31-0-146:/home/ubuntu/demo# eksctl create cluster -f eks.yaml
2025-02-25 11:15:34 [i] eksctl version 0.204.0
2025-02-25 11:15:34 [i] using region ap-south-1
2025-02-25 11:15:34 [i] skipping ap-south-1c from selection because it doesn't support the following instance type(s): t2.micro
2025-02-25 11:15:34 [i] setting availability zones to [ap-south-1a ap-south-1b]
2025-02-25 11:15:34 [i] subnets for ap-south-1a - public:192.168.0.0/19 private:192.168.64.0/19
2025-02-25 11:15:34 [i] subnets for ap-south-1b - public:192.168.32.0/19 private:192.168.96.0/19
2025-02-25 11:15:34 [i] nodegroup "ng-1" will use "ami-0d4ba5b0d145841b4" [AmazonLinux2/1.30]
2025-02-25 11:15:34 [i] using Kubernetes version 1.30
2025-02-25 11:15:34 [i] creating EKS cluster "rahul-cluster" in "ap-south-1" r
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```

```
2025-02-25 11:23:36 [i] successfully created addon: metrics-server
2025-02-25 11:23:37 [i] recommended policies were found for "vpc-cni" addon, but since OIDC is disabled on the cluster, eksctl cannot configure the requested permissions; the recommended way to provide IAM permissions for "vpc-cni" addon is via pod identity associations; after addon creation is completed, add all recommended policies to the config file, under `addon.PodIdentityAssociations`, and run `eksctl update addon`
2025-02-25 11:23:37 [i] creating addon: vpc-cni
2025-02-25 11:23:37 [i] successfully created addon: vpc-cni
2025-02-25 11:23:37 [i] creating addon: kube-proxy
2025-02-25 11:23:37 [i] successfully created addon: kube-proxy
2025-02-25 11:25:38 [i] building nodegroup stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:25:38 [i] --nodes-min=2 was set automatically for nodegroup ng-1
2025-02-25 11:25:38 [i] --nodes-max=2 was set automatically for nodegroup ng-1
2025-02-25 11:25:38 [i] deploying stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:25:38 [i] waiting for CloudFormation stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:26:08 [i] waiting for CloudFormation stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:26:52 [i] waiting for CloudFormation stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:27:52 [i] waiting for CloudFormation stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:29:17 [i] waiting for CloudFormation stack "eksctl-rahul-cluster-nodegroup-ng-1"
2025-02-25 11:29:17 [i] waiting for the control plane to become ready
2025-02-25 11:29:17 [x] saved kubeconfig as "/root/.kube/config"
2025-02-25 11:29:17 [i] tasks
2025-02-25 11:29:17 [x] all EKS cluster resources for "rahul-cluster" have been created
2025-02-25 11:29:18 [i] nodegroup "ng-1" has 2 node(s)
2025-02-25 11:29:18 [i] node "ip-192-168-14-63.ap-south-1.compute.internal" is ready
2025-02-25 11:29:18 [i] node "ip-192-168-59-11.ap-south-1.compute.internal" is ready
2025-02-25 11:29:18 [i] waiting for at least 2 node(s) to become ready in "ng-1"
2025-02-25 11:29:18 [i] nodegroup "ng-1" has 2 node(s)
2025-02-25 11:29:18 [i] node "ip-192-168-14-63.ap-south-1.compute.internal" is ready
2025-02-25 11:29:18 [i] node "ip-192-168-59-11.ap-south-1.compute.internal" is ready
2025-02-25 11:29:18 [x] created 1 nodegroup(s) in cluster "rahul-cluster"
2025-02-25 11:29:18 [i] kubectl command should work with "/root/.kube/config", try 'kubectl get nodes'
2025-02-25 11:29:18 [x] EKS cluster "rahul-cluster" in "ap-south-1" region is ready
root@ip-172-31-0-146:/home/ubuntu/demo#
```

```

root@ip-172-31-0-146:/home/ubuntu/demo# eksctl get cluster --region ap-south-1
NAME          REGION      EKSCTL CREATED
rahul-cluster ap-south-1  True
root@ip-172-31-0-146:/home/ubuntu/demo# eksctl get nodegroup --cluster rahul-cluster --region ap-south-1
CLUSTER      NODEGROUP   STATUS     CREATED           MIN SIZE    MAX SIZE    DESIRED CAPACITY   INSTANCE
rahul-cluster ng-1       ASG NAME
                         CREATE_COMPLETE 2025-02-25T11:25:38Z  2           2           2           t2.micro
mt-0d4ba5b0d145841b4  eksctl-rahul-cluster-nodegroup-ng-1-NodeGroup-0rsG2Th0zYPg  unmanaged
root@ip-172-31-0-146:/home/ubuntu/demo# kubectl get node
NAME          STATUS ROLES AGE VERSION
ip-192-168-14-63.ap-south-1.compute.internal Ready <none> 95s v1.30.9-eks-5d632ec
ip-192-168-58-11.ap-south-1.compute.internal Ready <none> 94s v1.30.9-eks-5d632ec
root@ip-172-31-0-146:/home/ubuntu/demo# kubectl run nginxapp2 --image nginx
pod/nginxapp2 created
root@ip-172-31-0-146:/home/ubuntu/demo# kubectl get all
NAME        READY STATUS RESTARTS AGE
pod/nginxapp2 0/1 Pending 0 9s
NAME          TYPE    CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE
service/kubernetes  ClusterIP   10.100.0.1   <none>        443/TCP     9m32s
root@ip-172-31-0-146:/home/ubuntu/demo#

```

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Name	Instance ID	Instance state	Instance type	Status check
eksclientmachin...	i-04f31623372b56cca	Running	t2.micro	2/2 checks passed
rahul-cluster-...	i-0208191306e121f25	Running	t2.micro	2/2 checks passed
rahul-cluster-...	i-016c67b4f69f05ce0	Running	t2.micro	2/2 checks passed

This was simple nginx image ,
Now pushing an image to AWS ECR and deploying on the cluster

Creating the image

```
PS C:\Users\rahul.kalekar\Desktop\aws_projects\employeeappaws> docker build -t rahul471/empapp:latest
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage: docker buildx build [OPTIONS] PATH | URL | -

Start a build
PS C:\Users\rahul.kalekar\Desktop\aws_projects\employeeappaws> docker build -t rahul471/empapp:latest .
[+] Building 3.8s (8/8) FINISHED
--> [internal] load build definition from Dockerfile          0.1s
--> => transferring dockerfile: 190B                         0.0s
--> WARN: Maintainer instruction is deprecated in favor of using label (line 2)
--> [internal] load metadata for docker.io/library/openjdk:17-alpine      0.0s
--> [auth] library/openjdk:pull token for registry-1.docker.io           1.8s
--> [internal] load .dockerignore                                         0.0s
--> => transferring context: 2B                                         0.0s
--> [internal] load build context                                       0.6s
--> => transferring context: 22.70MB                                    0.6s
--> => CACHED [1/2] FROM docker.io/library/openjdk:17-alpine@sha256:4b6abae565492dbe9e7a894137c966a7485154238982f2f25e9dbd9784383d81 0.0s
--> => resolve docker.io/library/openjdk:17-alpine@sha256:4b6abae565492dbe9e7a894137c966a7485154238982f2f25e9dbd9784383d81      0.0s

PS employeeappaws > src > main > java > com > employee > controllers > EmpController
9:14 CRLF UTF-8 { } Codeium 4 spaces ⌂ ⓘ
Page 1 of 5 6 words English (India) Text Predictions On ⓘ Accessibility Investigate
100% ⌂ ⓘ
17:03 ENG IN 28-02-2025
```

Pushing it to ECR

```
PS C:\Users\rahul.kalekar\Desktop\aws_projects\employeeappaws> docker tag rahul471/empapp 396608804235.dkr.ecr.ap-south-1.amazonaws.com/rahul471/eks-exam:1.1
PS C:\Users\rahul.kalekar\Desktop\aws_projects\employeeappaws> docker push 396608804235.dkr.ecr.ap-south-1.amazonaws.com/rahul471/eks-exam:1.1
The push refers to repository [396608804235.dkr.ecr.ap-south-1.amazonaws.com/rahul471/eks-exam]
53c9466125e4: Pushed
d8d715783b80: Pushed
1d0b3a331271: Pushed
ddbf081ec6d9: Pushed
5843afab3874: Pushed
1.1: digest: sha256:f68f5883ecb3f377671026f47a643d42acf7ff14e5dbb4e492d7170ddd6b6cab size: 856
PS C:\Users\rahul.kalekar\Desktop\aws_projects\employeeappaws>
PS employeeappaws > src > main > java > com > employee > controllers > EmpController
9:14 CRLF UTF-8 { } Codeium 4 spaces ⌂ ⓘ
PS day-4 > src > main > java > com > bookapp > controller > BookController > getbyid
31:32 CRLF UTF-8 { } Codeium 4 spaces ⌂ ⓘ
17:03 ENG IN 28-02-2025
```

Image on ECR

The screenshot shows the AWS ECR console with the path: Amazon Elastic Container Registry > Private registry > Repositories > rahul471/eks-exam. A message at the top indicates that the image scan overview has moved to the Image detail page. The 'Images (4)' section lists the following:

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
1.1	Image Index	February 28, 2025, 16:03:04 (UTC+05.5)	210.87	Copy URI	sha256:f68f5883...
-	Image	February 28, 2025, 16:03:03 (UTC+05.5)	0.00	Copy URI	sha256:a955b44...
-	Image	February 28, 2025, 16:03:03 (UTC+05.5)	210.87	Copy URI	sha256:f2b91eff...
latest	Image	February 28, 2025, 15:59:26 (UTC+05.5)	292.04	Copy URI	sha256:fe6c830...

Configuring cluster

The screenshot shows a MobaXterm window titled '65.0.178.179 (ubuntu)'. The terminal session displays the following commands being run:

```
root@ip-172-31-13-223:/home/ubuntu# ls
1.yaml aws awscliv2.zip eksctl.tar.gz exam.yaml kubectl
root@ip-172-31-13-223:/home/ubuntu# cat 1.yaml
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig

metadata:
  name: lab-exam-cluster
  region: ap-south-1

nodeGroups:
  - name: ng-1
    instanceType: t2.micro
    desiredCapacity: 2
root@ip-172-31-13-223:/home/ubuntu#
```

The status bar at the bottom of the window shows 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'.

```

65.0.178.179 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/ubuntu/
Name
.. .cache .ssh .bash_logout .bashrc .profile .xauthority
Remote monitoring
allow terminal fold

nodeGroups:
  - name: ng-1
    instanceType: t2.micro
    desiredCapacity: 2
root@ip-172-31-13-223:/home/ubuntu# cat exam.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: empapp
spec:
  replicas: 1
  selector:
    matchLabels:
      app: empapp
  template:
    metadata:
      labels:
        app: empapp
    spec:
      containers:
        - name: empapp
          image: 396608804235.dkr.ecr.ap-south-1.amazonaws.com/rahul471/eks-exam:1.1
          ports:
            - containerPort: 8080
...
apiVersion: v1
kind: Service
metadata:
  name: empapp-service
spec:
  selector:
    app: empapp

```

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Creating cluster

```

65.0.178.179 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
/home/ubuntu/
Name
.. .cache .ssh .bash_logout .bashrc .profile .xauthority
Remote monitoring
allow terminal fold

root@ip-172-31-13-223:/home/ubuntu# ls
aws awsciv2.zip eksctl.tar.gz exam.yaml kubectl
root@ip-172-31-13-223:/home/ubuntu# vim 1.yaml
root@ip-172-31-13-223:/home/ubuntu# eksctl create cluster -f 1.yaml
2025-02-28 10:58:24 [ ] eksctl version 0.204.0
2025-02-28 10:58:24 [ ] using region ap-south-1
2025-02-28 10:58:24 [ ] skipping ap-south-1 from selection because it doesn't support the following instance type(s): t2.micro
2025-02-28 10:58:24 [ ] setting availability zones to [ap-south-1a ap-south-1b]
2025-02-28 10:58:24 [ ] subnets for ap-south-1a - public:192.168.0.0/19 private:192.168.64.0/19
2025-02-28 10:58:24 [ ] subnets for ap-south-1b - public:192.168.32.0/19 private:192.168.96.0/19
2025-02-28 10:58:24 [ ] nodegroup "ng-1" will use "ami-0c5c573feb08cfa4d" [AmazonLinux2/1.30]
2025-02-28 10:58:24 [ ] using Kubernetes version 1.30
2025-02-28 10:58:24 [ ] creating EKS cluster "lab-exam-cluster" in "ap-south-1" region with un-managed nodes
2025-02-28 10:58:24 [ ] 1 nodegroup (ng-1) was included (based on the include/exclude rules)
2025-02-28 10:58:24 [ ] will create a CloudFormation stack for cluster itself and 1 nodegroup stack(s)
2025-02-28 10:58:24 [ ] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=ap-south-1 --cluster=lab-exam-cluster'
2025-02-28 10:58:24 [ ] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "lab-exam-cluster" in "ap-south-1"
2025-02-28 10:58:24 [ ] CloudWatch logging will not be enabled for cluster "lab-exam-cluster" in "ap-south-1"
2025-02-28 10:58:24 [ ] you can enable it with 'eksctl utils update-cluster-logging --enable-types={SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all)} --region=ap-south-1 --cluster=lab-exam-cluster'
2025-02-28 10:58:24 [ ] default addons metrics-server, vpc-cni, kube-proxy, coredns were not specified, will install them as EKS addons
2025-02-28 10:58:24 [ ]
  2 sequential tasks: {
    2 sequential sub-tasks: {
      1 task: { create addons },
      wait for control plane to become ready,
    },
    create nodegroup "ng-1",
  }
}

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```

17:00 28-02-2025

Configuring deployment

```
nodeGroups:
  - name: ng-1
    instanceType: t2.micro
    desiredCapacity: 2
root@ip-172-31-13-223:/home/ubuntu# cat exam.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: empapp
spec:
  replicas: 1
  selector:
    matchLabels:
      app: empapp
  template:
    metadata:
      labels:
        app: empapp
    spec:
      containers:
        - name: empapp
          image: 396608804235.dkr.ecr.ap-south-1.amazonaws.com/rahul471/eks-exam:1.1
          ports:
            - containerPort: 8080
...
apiVersion: v1
kind: Service
metadata:
  name: empapp-service
spec:
  selector:
    app: empapp
```

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Windows taskbar icons are visible at the bottom.

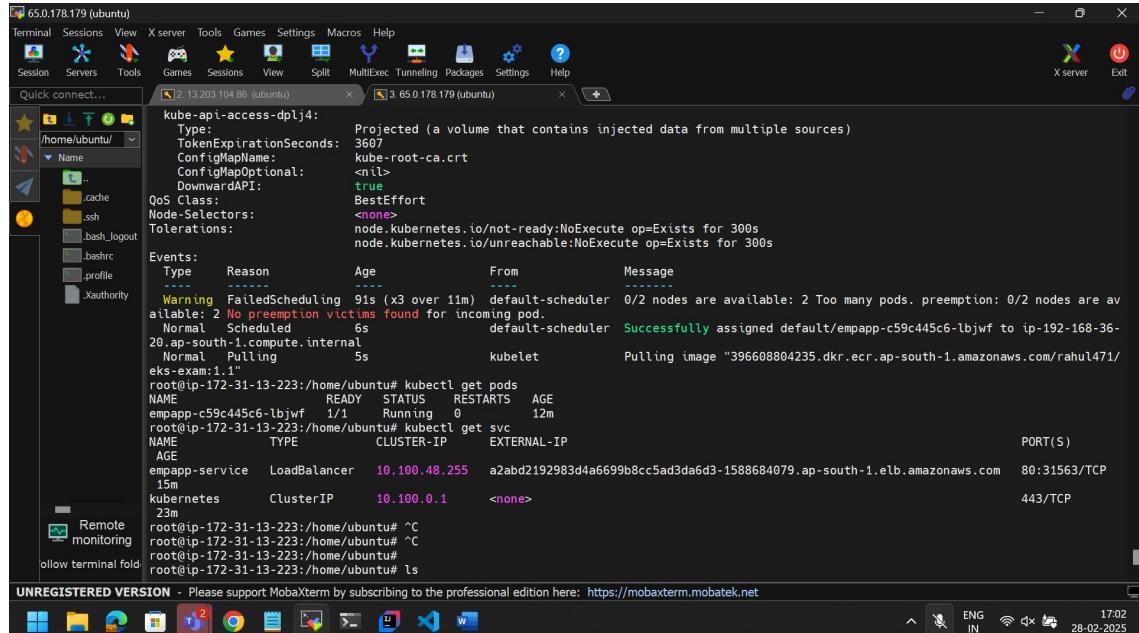
Scaling resources because it was not enough

```
root@ip-172-31-13-223:/home/ubuntu# eksctl get clusters
NAME           REGION   EKSCTL CREATED
lab-exam-cluster  ap-south-1  True
root@ip-172-31-13-223:/home/ubuntu# eksctl scale nodegroup --cluster=lab-exam-cluster --name=ng-1 --nodes=4 --nodes-min=2 --nodes-max=6
2025-02-28 11:25:42 [0] scaling nodegroup "ng-1" in cluster lab-exam-cluster
2025-02-28 11:25:43 [0] initiated scaling of nodegroup
2025-02-28 11:25:43 [0] to see the status of the scaling run `eksctl get nodegroup --cluster lab-exam-cluster --region ap-south-1 --name ng-1`
root@ip-172-31-13-223:/home/ubuntu# ^C
root@ip-172-31-13-223:/home/ubuntu# eksctl get nodegroup --cluster lab-exam-cluster --region ap-south-1 --name ng-1
CLUSTER      NODEGROUP   STATUS   CREATED   MIN SIZE   MAX SIZE   DESIRED CAPACITY   I
INSTANCE TYPE IMAGE ID   ASG NAME
lab-exam-cluster  ng-1       CREATE COMPLETE 2025-02-28T11:08:27Z  2          6          4          t
2.micro ami-0c5c573feb08cf4ad eksctl-lab-exam-cluster-nodegroup-ng-1-NodeGroup-0USn2XAKLjzz unmanaged
root@ip-172-31-13-223:/home/ubuntu# kubectl get pods
NAME           READY   STATUS   RESTARTS   AGE
empapp-c59c445c6-lbjwf  0/1   Pending   0          11m
root@ip-172-31-13-223:/home/ubuntu# ^C
root@ip-172-31-13-223:/home/ubuntu# kubectl describe pod/empapp-c59c445c6-lbjwf
Name:           empapp-c59c445c6-lbjwf
Namespace:      default
Priority:      0
Service Account: default
Node:          ip-192-168-36-20.ap-south-1.compute.internal/192.168.36.20
Start Time:    Fri, 28 Feb 2025 11:26:29 +0000
Labels:         app=empapp
Annotations:   pod-template-hash=c59c445c6
Annotations:   <none>
Status:        Pending
IP:             <none>
IPs:           <none>
Controlled By: ReplicaSet/empapp-c59c445c6
Containers:
```

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Windows taskbar icons are visible at the bottom.

Now we get the pod running status, use the external ip



```
kube-api-access-dplj4:
  Type:          Projected (a volume that contains injected data from multiple sources)
  TokenExpirationSeconds: 3607
  ConfigMapName:    kube-root-ca.crt
  ConfigMapOptional: <nil>
  DownwardAPI:     true
  QoS Class:       BestEffort
  Node-Selectors:  <none>
  Tolerations:    node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                  node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type      Reason   Age           From            Message
  ----      ----   --           --             --
  Warning  FailedScheduling  91s (over 1m)  default-scheduler  0/2 nodes are available: 2 Too many pods. preemption: 0/2 nodes are available: 2 No preemption victims found for incoming pod.
  Normal   Scheduled   6s            default-scheduler  Successfully assigned default/empapp-c59c445c6-lbjwf to ip-192-168-36-20.ap-south-1.compute.internal
  Normal   Pulling     5s            kubelet         Pulling image "396608804235.dkr.ecr.ap-south-1.amazonaws.com/rahul471-eks-exam:1.1"
root@ip-172-31-13-223:/home/ubuntu# kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
empapp-c59c445c6-lbjwf  1/1    Running   0          12m
root@ip-172-31-13-223:/home/ubuntu# kubectl get svc
NAME          TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)
AGE
empapp-service LoadBalancer  10.100.48.255  a2abd2192983d4a6699b8cc5ad3da6d3-1588684079.ap-south-1.elb.amazonaws.com  80:31563/TCP
15m
kubernetes     ClusterIP   10.100.0.1    <none>
23m
root@ip-172-31-13-223:/home/ubuntu# ^C
root@ip-172-31-13-223:/home/ubuntu# ^C
root@ip-172-31-13-223:/home/ubuntu# ^C
root@ip-172-31-13-223:/home/ubuntu# ls
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```

Running on external ip

