

Browser tabs: AWS EKS - Google Drive, 4thJuly2020 - Google Docs, EKS doc - Google Docs, Untitled document - Google Doc, AWS Management Console

URL: ap-south-1.console.aws.amazon.com/console/home?nc2=h_ct®ion=ap-south-1&src=header-signin#

AWS Management Console

AWS services

Find Services
You can enter names, keywords or acronyms.

Elastic Kubernetes Service
The most trusted way to run Kubernetes

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- IAM
- EC2 Image Builder
- Billing
- EC2

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Fast, simple, cost-effective data warehouse that can extend queries to your data lake.
[Learn more](#)

Run Serverless Containers with AWS Fargate
AWS Fargate runs and scales your containers without having to manage servers or clusters.
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Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine
With EC2
2-3 minutes

Build a web app
With Elastic Beanstalk
6 minutes

Build using virtual servers
With Lightsail
1-2 minutes

```
Select Command Prompt
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Asus>aws --version
aws-cli/2.0.17 Python/3.7.7 Windows/10 botocore/2.0.0dev21

C:\Users\Asus>
```



```
Command Prompt
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Asus>aws --version
aws-cli/2.0.17 Python/3.7.7 Windows/10 botocore/2.0.0dev21

C:\Users\Asus>aws configure
AWS Access Key ID [*****3KA5]:
AWS Secret Access Key [*****KjH4]:
Default region name [ap-south-1]:
Default output format [None]:

C:\Users\Asus>
```

YAML Lint

Paste in your YAML and click "Go" - we'll tell you if it's valid or not.

```
1 ---
2 apiVersion: eksctl.io/v1alpha5
3 kind: ClusterConfig
4 metadata:
5   name: myCluster
6   region: ap-south-1
7 nodeGroups:
8   -
9     desiredCapacity: 2
10    instanceType: t2.micro
11    name: ng-1
12   -
13     desiredCapacity: 1
14     instanceType: t2.micro
15     name: ng-2
16
17
18
19
20
21
```

Go

Valid YAML!

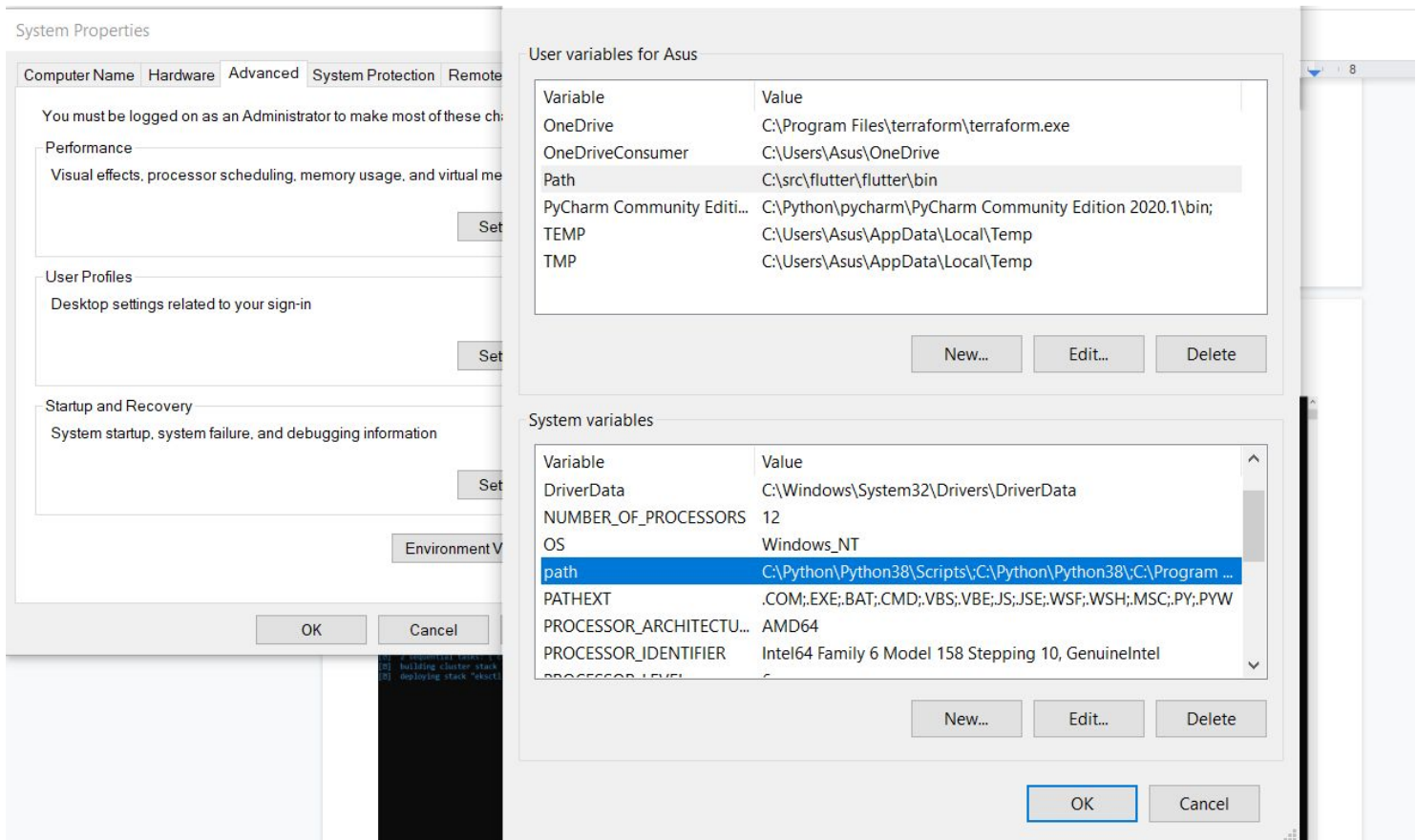
```
Command Prompt
C:\Users\Asus>aws eks list-clusters
{"clusters": []}

C:\Users\Asus>cd desktop
C:\Users\Asus\Desktop>mkdir eks_class_code1
C:\Users\Asus\Desktop>cd eks_class_code1
C:\Users\Asus\Desktop>notepad cluster.yml
C:\Users\Asus\Desktop>cd eks_class_code1>

*cluster.yml - Notepad
File Edit Format View Help
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig

metadata:
  name: myCluster
  region: ap-south-1

nodeGroups:
- name: ng-1
  instanceType: t2.micro
  desiredCapacity: 2
- name: ng-2
  instanceType: t2.micro
  desiredCapacity: 1
```



```
C:\Users\Asus\Desktop>eksctl create cluster -f cluster.yml
[0] eksctl version 0.21.0
[0] using region ap-south-1
[0] setting availability zones to [ap-south-1b ap-south-1c ap-south-1a]
[0] subnets for ap-south-1b - public:192.168.0.0/19 private:192.168.96.0/19
[0] subnets for ap-south-1c - public:192.168.32.0/19 private:192.168.128.0/19
[0] subnets for ap-south-1a - public:192.168.64.0/19 private:192.168.160.0/19
[0] nodegroup "ng-1" will use "ami-073969767527f7306" [AmazonLinux2/1.16]
[0] nodegroup "ng-2" will use "ami-073969767527f7306" [AmazonLinux2/1.16]
[0] using Kubernetes version 1.16
[0] creating EKS cluster "myCluster" in "ap-south-1" region with un-managed nodes
[0] 2 nodegroups (ng-1, ng-2) were included (based on the include/exclude rules)
[0] will create a CloudFormation stack for cluster itself and 2 nodegroup stack(s)
[0] will create a CloudFormation stack for cluster itself and 0 managed nodegroup stack(s)
[0] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=ap-south-1 --cluster=myCluster'
[0] CloudWatch logging will not be enabled for cluster "myCluster" in "ap-south-1"
[0] you can enable it with 'eksctl utils update-cluster-logging --region=ap-south-1 --cluster=myCluster'
[0] Kubernetes API endpoint access will use default of [publicAccess=true, privateAccess=false] for cluster "myCluster" in "ap-south-1"
[0] 2 sequential tasks: { create cluster control plane "myCluster", 2 sequential sub-tasks: { no tasks, 2 parallel sub-tasks: { create nodegroup "ng-1", create nodegroup "ng-2" } } }
[0] building cluster stack "eksctl-myCluster-cluster"
[0] deploying stack "eksctl-myCluster-cluster"
```



```
Command Prompt - eksctl create cluster -f cluster.yml

C:\Users\Asus\Desktop>mkdir eks_class_code1
C:\Users\Asus\Desktop>cd eks_class_code1
C:\Users\Asus\Desktop>notepad cluster.yml

C:\Users\Asus\Desktop>eksctl create cluster -f cluster.yml
[0] eksctl version 0.21.0
[0] using region ap-south-1
[0] setting availability zones to [ap-south-1b ap-south-1c ap-south-1a]
[0] subnets for ap-south-1b - public:192.168.0.0/19 private:192.168.96.0/19
[0] subnets for ap-south-1c - public:192.168.32.0/19 private:192.168.128.0/19
[0] subnets for ap-south-1a - public:192.168.64.0/19 private:192.168.160.0/19
[0] nodegroup "ng-1" will use "ami-073969767527f7306" [AmazonLinux2/1.16]
[0] nodegroup "ng-2" will use "ami-073969767527f7306" [AmazonLinux2/1.16]
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[0] you can enable it with 'eksctl utils update-cluster-logging --region=ap-south-1 --cluster=myCluster'
[0] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "myCluster" in "ap-south-1"
[0] 2 sequential tasks: { create cluster control plane "myCluster", 2 sequential sub-tasks: { no tasks, 2 parallel sub-tasks: { create nodegroup "ng-1", create nodegroup "ng-2" } } }
[0] building cluster stack "eksctl-myCluster-cluster"
[0] deploying stack "eksctl-myCluster-cluster"
[0] building nodegroup stack "eksctl-myCluster-nodegroup-ng-1"
[0] building nodegroup stack "eksctl-myCluster-nodegroup-ng-1"
[0] --nodes-min=2 was set automatically for nodegroup ng-1
[0] --nodes-max=1 was set automatically for nodegroup ng-2
[0] --nodes-max=2 was set automatically for nodegroup ng-1
[0] --nodes-max=2 was set automatically for nodegroup ng-1
[0] deploying stack "eksctl-myCluster-nodegroup-ng-2"
[0] deploying stack "eksctl-myCluster-nodegroup-ng-1"
```

```
Command Prompt - eksctl create cluster -f cluster.yml

[0] subnets for ap-south-1c - public:192.168.32.0/19 private:192.168.128.0/19
[0] subnets for ap-south-1a - public:192.168.64.0/19 private:192.168.160.0/19
[0] nodegroup "ng-1" will use "ami-073969767527f7306" [AmazonLinux2/1.16]
[0] nodegroup "ng-2" will use "ami-073969767527f7306" [AmazonLinux2/1.16]
[0] using Kubernetes version 1.16
[0] creating EKS cluster "myCluster" in "ap-south-1" region with un-managed nodes
[0] 2 nodegroups (ng-1, ng-2) were included (based on the include/exclude rules)
[0] will create a CloudFormation stack for cluster itself and 2 nodegroup stack(s)
[0] will create a CloudFormation stack for cluster itself and 0 managed nodegroup stack(s)
[0] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=ap-south-1 --cluster=myCluster'
[0] CloudWatch logging will not be enabled for cluster "myCluster" in "ap-south-1"
[0] you can enable it with 'eksctl utils update-cluster-logging --region=ap-south-1 --cluster=myCluster'
[0] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "myCluster" in "ap-south-1"
[0] 2 sequential tasks: { create cluster control plane "myCluster", 2 sequential sub-tasks: { no tasks, 2 parallel sub-tasks: { create nodegroup "ng-1", create nodegroup "ng-2" } } }
[0] building cluster stack "eksctl-myCluster-cluster"
[0] deploying stack "eksctl-myCluster-cluster"
[0] building nodegroup stack "eksctl-myCluster-nodegroup-ng-1"
[0] building nodegroup stack "eksctl-myCluster-nodegroup-ng-1"
[0] --nodes-min=2 was set automatically for nodegroup ng-1
[0] --nodes-max=1 was set automatically for nodegroup ng-2
[0] --nodes-max=2 was set automatically for nodegroup ng-1
[0] --nodes-max=2 was set automatically for nodegroup ng-1
[0] deploying stack "eksctl-myCluster-nodegroup-ng-2"
[0] deploying stack "eksctl-myCluster-nodegroup-ng-1"
[0] waiting for the control plane availability...
[1] unable to write kubeconfig , please retry with 'eksctl utils write-kubeconfig -n myCluster': unable to read existing kubeconfig file "C:\Users\Asus/.kube/config": error loading config file "C:\Users\Asus/.kube/config": read C:\Users\Asus/.kube/config: The process cannot access the file because another process has locked a portion of the file.
[0] no tasks
[0] all EKS cluster resources for "myCluster" have been created
[0] adding identity "arn:aws:iam::810445783252:role/eksctl-myCluster-nodegroup-ng-1-NodeInstanceRole-10LPFAG4YRHGQ" to auth ConfigMap
[0] nodegroup "ng-1" has 0 node(s)
[0] waiting for at least 2 node(s) to become ready in "ng-1"
[0] nodegroup "ng-1" has 2 node(s)
[0] node "ip-192.168-29-79.ap-south-1.compute.internal" is ready
[0] node "ip-192.168-89-79.ap-south-1.compute.internal" is ready
[0] adding identity "arn:aws:iam::810445783252:role/eksctl-myCluster-nodegroup-ng-2-NodeInstanceRole-17P3ZD0A00058" to auth ConfigMap
[0] nodegroup "ng-2" has 0 node(s)
[0] waiting for at least 1 node(s) to become ready in "ng-2"
[0] nodegroup "ng-2" has 1 node(s)
[0] node "ip-192-168-76-186.ap-south-1.compute.internal" is ready
```

```
Command Prompt
[0] subnets for ap-south-1c - public:192.168.32.0/19 private:192.168.128.0/19
[0] subnets for ap-south-1a - public:192.168.64.0/19 private:192.168.160.0/19
[0] nodegroup "ng-1" will use "ami-07396976752f7306" [AmazonLinux2/1.16]
[0] nodegroup "ng-2" will use "ami-07396976752f7306" [AmazonLinux2/1.16]
[0] using Kubernetes version 1.16
[0] creating EKS cluster "myCluster" in "ap-south-1" region with un-managed nodes
[0] 2 nodegroups (ng-1, ng-2) were included (based on the include/exclude rules)
[0] will create a CloudFormation stack for cluster itself and 2 nodegroup stack(s)
[0] will create a CloudFormation stack for cluster itself and 0 managed nodegroup stack(s)
[0] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=ap-south-1 --cluster=myCluster'
[0] CloudWatch logging will not be enabled for cluster "myCluster" in "ap-south-1"
[0] you can enable it with 'eksctl utils update-cluster-logging --region=ap-south-1 --cluster=myCluster'
[0] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "myCluster" in "ap-south-1"
[0] 2 sequential tasks: { create cluster control plane "myCluster", 2 sequential sub-tasks: { no tasks, 2 parallel sub-tasks: { create nodegroup "ng-1", create nodegroup "ng-2" } } }
[0] building cluster stack "eksctl-myCluster-cluster"
[0] deploying stack "eksctl-myCluster-cluster"
[0] building nodegroup stack "eksctl-myCluster-nodegroup-ng-1"
[0] building nodegroup stack "eksctl-myCluster-nodegroup-ng-1"
[0] --nodes-min=2 was set automatically for nodegroup ng-1
[0] --nodes-max=1 was set automatically for nodegroup ng-2
[0] --nodes-max=2 was set automatically for nodegroup ng-1
[0] --nodes-max=2 was set automatically for nodegroup ng-1
[0] deploying stack "eksctl-myCluster-nodegroup-ng-2"
[0] deploying stack "eksctl-myCluster-nodegroup-ng-1"
[0] waiting for the control plane availability...
[0] no tasks
[0] all EKS cluster resources for "myCluster" have been created
[0] adding identity "arn:aws:iam::810445783252:role/eksctl-myCluster-nodegroup-ng-1-NodeInstanceRole-10LPFAG4YRHGQ" to auth ConfigMap
[0] nodegroup "ng-1" has 0 node(s)
[0] waiting for at least 2 node(s) to become ready in "ng-1"
[0] nodegroup "ng-1" has 2 node(s)
[0] node "ip-192-168-29-79.ap-south-1.compute.internal" is ready
[0] node "ip-192-168-89-78.ap-south-1.compute.internal" is ready
[0] adding identity "arn:aws:iam::810445783252:role/eksctl-myCluster-nodegroup-ng-2-NodeInstanceRole-17P3ZD0A00058" to auth ConfigMap
[0] nodegroup "ng-2" has 0 node(s)
[0] waiting for at least 1 node(s) to become ready in "ng-2"
[0] nodegroup "ng-2" has 1 node(s)
[0] node "ip-192-168-76-186.ap-south-1.compute.internal" is ready
[0] EKS cluster "myCluster" in "ap-south-1" region is ready
C:\Users\Asus\Desktop>eks_class_code1>
```

AWS EKS - Google Drive

4thJuly2020 - Google Docs

Untitled document - Google

Instances | EC2 Management

(1) LinkedIn

(1) LinkedIn

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:sort=descinstanceId

Services

Resource Groups

Pratik Mumbai Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

NAME	Name	App	Environment	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status
	myCluster-ng-2-Node			i-0e4b31186d777628f	t2.micro	ap-south-1a	running	2/2 checks ...	None
	mypratik			i-095d08262fa300a5f	t2.micro	ap-south-1a	stopped	2/2 checks ...	None
	myCluster-ng-1-Node			i-07e4086192fae86bc	t2.micro	ap-south-1b	running	2/2 checks ...	None
pratiklinuxo s		web	dev	i-06532a49de8c9cfaa	t2.micro	ap-south-1a	stopped	2/2 checks ...	None
	myCluster-ng-1-Node			i-01562c4e6feb78e	t2.micro	ap-south-1a	running	2/2 checks ...	None
				i-00a535cb6b3992fbf	t2.micro	ap-south-1b	stopped	2/2 checks ...	None

Instance: i-01562c4e6feb78e (myCluster-ng-1-Node)

Public DNS: ec2-13-232-245-164.ap-south-1.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID	i-01562c4e6feb78e	Public DNS (IPv4)	ec2-13-232-245-164.ap-south-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	13.232.245.164
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	-
Private DNS	ip-192-168-89-78.ap-south-1.compute.internal	Availability zone	ap-south-1a
Private IPs	192.168.83.98, 192.168.89.78	Security groups	eksctl-myCluster-cluster-ClusterSharedNodeSecurityGroup-V09YS9X9ANQ6, eksctl-myCluster-nodegroup-ng-1-SG-1JQLAN5RKU9FE. view inbound rules. view outbound rules

Feedback

English (US)

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