

Repositories:

- Micro-services application: https://github.com/binh0001/sd0772_msa
- Architecture as code: https://github.com/binh0001/sd0772_aws_infrastructure

```
C:\Users\HP840\Desktop\DevopsTraining\sd0772_aws_infrastructure>terraform init
Initializing the backend...
Initializing modules...
Initializing provider plugins...
- Reusing previous version of hashicorp/kubernetes from the dependency lock file
- Reusing previous version of hashicorp/time from the dependency lock file
- Reusing previous version of hashicorp/tls from the dependency lock file
- Reusing previous version of hashicorp/cloudinit from the dependency lock file
- Reusing previous version of hashicorp/aws from the dependency lock file
- Reusing previous version of hashicorp/random from the dependency lock file
- Using previously-installed hashicorp/kubernetes v2.32.0
- Using previously-installed hashicorp/time v0.12.0
- Using previously-installed hashicorp/tls v4.0.5
- Using previously-installed hashicorp/cloudinit v2.3.4
- Using previously-installed hashicorp/aws v5.7.0
- Using previously-installed hashicorp/random v3.5.1

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

```

+ "kms:ReEncrypt*",
]
+ resources = [
+   "*",
]
+ sid      = "KeyUsage"

+ principals {
+   identifiers = [
+     (known after apply),
+   ]
+   type       = "AWS"
+ }
}

# module.eks.module.kms.aws_kms_alias.this["cluster"] will be created
+ resource "aws_kms_alias" "this" {
+   arn      = (known after apply)
+   id       = (known after apply)
+   name     = "alias/eks/sd0772-devops-eks"
+   name_prefix = (known after apply)
+   target_key_arn = (known after apply)
+   target_key_id = (known after apply)
+ }

# module.eks.module.kms.aws_kms_key.this[0] will be created
+ resource "aws_kms_key" "this" {
+   arn              = (known after apply)
+   bypass_policy_lockout_safety_check = false
+   customer_master_key_spec          = "SYMMETRIC_DEFAULT"
+   description           = "sd0772-devops-eks cluster encryption key"
+   enable_key_rotation    = true
+   id                    = (known after apply)
+   is_enabled            = true
+   key_id               = (known after apply)
+   key_usage            = "ENCRYPT_DECRYPT"
+   multi_region         = false
+   policy               = (known after apply)
+   tags_all             = (known after apply)
+ }

```

plan: 70 to add, 0 to change, 0 to destroy.

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.

```

C:\Users\HP840\Desktop\DevopsTraining\sd0772_aws_infrastructure>aws ec2 create-key-pair --key-name sd0772_ubuntu_keypair --query 'KeyMaterial' --output text > sd0772_ubuntu_keypair.pem

```

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#vpcs:

Projects

aws Services Search [Alt+S]

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Your VPCs (1/1) Info

Last updated less than a minute ago

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
sd0772-devops-vpc	vpc-0b9ff35c26fa45ea7	Available	172.31.0.0/16	-

vpc-0b9ff35c26fa45ea7 / sd0772-devops-vpc

Details Resource map CIDRs Flow logs Tags Integrations

Details

VPC ID	State	DNS hostnames	DNS resolution
vpc-0b9ff35c26fa45ea7	Available	Enabled	Enabled

aws

Services

Search

[Alt+S]

Sydney

nguyenthaibinh26

Amazon Elastic Container Registry

Private registry

Repositories

Settings

Public registry

Repositories

Settings

ECR public gallery

Amazon ECS

Amazon EKS

Getting started

Documentation

Amazon ECR > Private registry > Repositories

Create repository

Private repositories

Repositories (2)

Search by repository substring

	Repository name	URI	Created at	Tag immutability	Encryption type
<input type="radio"/>	backend	491085412209.dkr.ecr.ap-southeast-2.amazonaws.com/backend	August 23, 2024, 11:37:04 (UTC+07)	Immutable	AES-256
<input type="radio"/>	frontend	491085412209.dkr.ecr.ap-southeast-2.amazonaws.com/frontend	August 23, 2024, 11:37:04 (UTC+07)	Immutable	AES-256

aws

Services

Search

[Alt+S]

Sydney

nguyenthaibinh261022@

Amazon Elastic Kubernetes Service

Clusters

Amazon EKS Anywhere

Enterprise Subscriptions

Related services

Amazon ECR

AWS Batch

Console settings

Documentation

Submit feedback

EKS > Clusters > sd0772-devops-eks

A new Kubernetes version is available for this cluster.

Upgrade version

sd0772-devops-eks

End of extended support for Kubernetes version (1.27) is July 24, 2025. If you don't upgrade your cluster to a later version before that date, it will be automatically upgraded to Kubernetes version 1.28.

Upgrade now

Cluster info

Status: Active

Kubernetes version: 1.27

Support period: Extended support until July 24, 2025

Provider: EKS

Overview

Resources

Compute

Networking

Add-ons

Access

Observability

Upgrade insights

Update history

Details

API server endpoint	OpenID Connect provider URL	Created
---------------------	-----------------------------	---------

The screenshot shows the AWS Management Console interface for EC2 instances. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity, and Reservations. The main content area is titled 'Instances (2) Info' and shows a list of two instances. The first instance is 'Ubuntu' with ID 'i-032710dd488ec6626', in a 'Running' state, using 't3.small' instance type, and located in 'ap-southeast-2a'. The second instance is 'node-group-1' with ID 'i-0d43775a27dfa9c5d', also in a 'Running' state, using 't3.small' instance type, and located in 'ap-southeast-2a'. The 'node-group-1' instance is highlighted, and the 'Select an instance' dialog is open, showing the instance's details and a 'Launch instances' button.

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	Ubuntu	i-032710dd488ec6626	Running	t3.small	Initializing	View alarms +	ap-southeast-2a	ec2-13-
<input type="checkbox"/>	node-group-1	i-0d43775a27dfa9c5d	Running	t3.small	2/2 checks passed	View alarms +	ap-southeast-2a	-

← → ↻ 🏠 ap-southeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-032710dd488ec6626&osUser=ubuntu®ion=a

```
aws Services Search [Alt+S]
Memory usage: 15% IPv4 address for ens5: 10.0.4.50
Swap usage: 0%

=> There is 1 zombie process.

Expanded Security Maintenance for Applications is not enabled.

73 updates can be applied immediately.
12 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

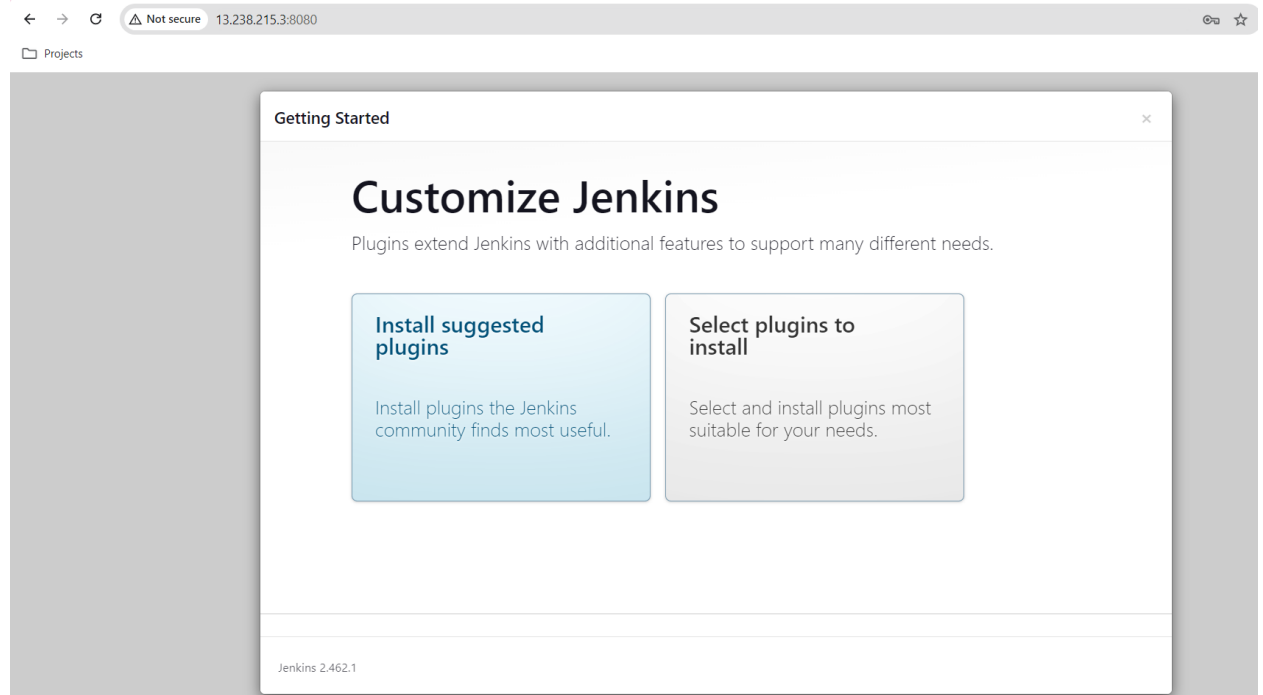
ubuntu@ip-10-0-4-50:~$
```

```
systemctl restart user@1000.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-10-0-4-50:~$ sudo systemctl start jenkins
ubuntu@ip-10-0-4-50:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-10-0-4-50:~$ sudo ufw allow 8080
Rules updated
Rules updated (v6)
ubuntu@ip-10-0-4-50:~$ sudo ufw status
Status: inactive
ubuntu@ip-10-0-4-50:~$ sudo ufw allow OpenSSH
Rules updated
Rules updated (v6)
ubuntu@ip-10-0-4-50:~$ sudo ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
ubuntu@ip-10-0-4-50:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```



← → ↺

Not secure 13.238.215.3:8080

🔒 ☆

📁 Projects

Getting Started

Getting Started

✓ Folders

⌚ Timestamper

⌚ Pipeline

⌚ Git

⌚ LDAP

✓ OWASP Markup Formatter

⌚ Workspace Cleanup

⌚ GitHub Branch Source

⌚ SSH Build Agents

⌚ Email Extension

⌚ Build Timeout

⌚ Ant

⌚ Pipeline: GitHub Groovy Libraries

⌚ Matrix Authorization Strategy

⌚ Mailer

⌚ Credentials Binding

⌚ Gradle

⌚ Pipeline Graph View

⌚ PAM Authentication

⌚ Dark Theme

** Ionicons API

Folders

OWASP Markup Formatter

** ASN API

** JSON Path API

** Structs

** Pipeline: Step API

** - required dependency

Jenkins 2.462.1

Getting Started

Create First Admin User

Username

Password

Confirm password

Full name

Jenkins 2.462.1

Skip and continue as admin

Save and Continue

← → ↻ ⚠ Not secure 13.238.215.3:8080

Projects

Jenkins

REST API (JSON)

Nguyen Thai Binh

log out

Dashboard >

+ New Item

📁 Build History

⚙️ Manage Jenkins

📄 My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job +

Set up a distributed build

Set up an agent 🖥️

Configure a cloud ☁️

Learn more about distributed builds ?

REST API Jenkins 2.462.1

← → ↻ ⚠ Not secure 13.238.215.3:8080/manage/pluginManager/installed

Projects

Jenkins

Search (CTRL+K)

Nguyen Thai Binh

log out

Dashboard > Manage Jenkins > Plugins

Plugins

🔄 Updates

📁 Available plugins

⚙️ Installed plugins

⚙️ Advanced settings

📄 Download progress

Q Docker Pipeline /

Name	Enabled
Docker Pipeline 580.vc0c340686b_54 Build and use Docker containers from pipelines. Report an issue with this plugin	<div><div>🟢</div><div>🔴</div></div>

Plugins

- 📄 Updates
- 📄 Available plugins
- ⚙️ Installed plugins
- ⚙️ Advanced settings
- 📄 Download progress

🔍 Pipeline Utility Steps ⓘ

Name	Enabled	
Pipeline Utility Steps 2.17.0 Utility steps for pipeline jobs. Report an issue with this plugin	<input checked="" type="checkbox"/>	⊗

Plugins

- 📄 Updates
- 📄 Available plugins
- ⚙️ Installed plugins
- ⚙️ Advanced settings
- 📄 Download progress

🔍 Kubernetes ⓘ

Name	Enabled	
Kubernetes Client API Plugin 6.10.0-240.v57880ce8b_0b_2 Kubernetes Client API plugin for use by other Jenkins plugins. Report an issue with this plugin	<input checked="" type="checkbox"/>	⊗
Kubernetes Credentials Plugin 189.v90a_488b_d1d65 Common classes for Kubernetes credentials Report an issue with this plugin	<input checked="" type="checkbox"/>	⊗
Kubernetes plugin 4285.v50ed5f624918 This plugin integrates Jenkins with Kubernetes Report an issue with this plugin	<input checked="" type="checkbox"/>	⊗

Plugins

🔍 Amazon EC2 ⓘ

- 🔄 Updates
- 📦 Available plugins
- 🔗 Installed plugins
- ⚙️ Advanced settings
- 📊 Download progress

Name	Enabled	⌵
Amazon EC2 plugin 1688.v8c07e01d657f This plugin integrates Jenkins with Amazon EC2 or anything implementing the EC2 API's such as an Ubuntu. Report an issue with this plugin	<input checked="" type="checkbox"/>	✖
Amazon Web Services SDK :: EC2 1.12.767-467.vb_e93f0c614b_6 EC2 module for the AWS SDK for Java .	<input checked="" type="checkbox"/>	✖
Amazon Web Services SDK :: IAM 1.12.767-467.vb_e93f0c614b_6 EC2 module for the AWS SDK for Java .	<input checked="" type="checkbox"/>	✖

Plugins

🔍 Pipeline: AWS Steps ⓘ

- 🔄 Updates
- 📦 Available plugins
- 🔗 Installed plugins
- ⚙️ Advanced settings
- 📊 Download progress

Name	Enabled	⌵
Pipeline: AWS Steps 1.45 This plugins adds Jenkins pipeline steps to interact with the AWS API. Report an issue with this plugin	<input checked="" type="checkbox"/>	✖

Clouds

There are no clouds currently set up. Create one, or install a plugin for more cloud options.

- New cloud +
- Install a plugin 🔄
- Learn more about distributed builds ⓘ

New cloud

Cloud name

Type

- ☒ Amazon EC2
- ☐ Eucalyptus
- ☐ Kubernetes

Create

← → ↻ ⚠ Not secure 13.238.215.3:8080/manage/cloud/create ☆ 📄 ⬇ 6

Projects

Jenkins 🔍 Search (CTRL+K) 👤 Nguyen Thai Binh 🚪 log out

Dashboard > Manage Jenkins

Jenkins Credentials Provider: Jenkins

Add Credentials

Domain
Global credentials (unrestricted) ▼

Kind
AWS Credentials ▼

Scope ?
Global (Jenkins, nodes, items, all child items, etc) ▼

ID ?
aws-credential

Description ?

Save

← → ↻ ⚠ Not secure 13.238.215.3:8080/manage/cloud/create ⚙ ☆ 📄 ⬇ 6

Projects

Dashboard > Manage Jenkins > Clouds > New cloud

Jenkins Credentials Provider: Jenkins

Add Credentials

Domain
Global credentials (unrestricted) ▼

Kind
SSH Username with private key ▼

Scope ?
Global (Jenkins, nodes, items, all child items, etc) ▼

ID ?
ubuntu-user

Description ?

Save

← → ↻ ⚠ Not secure 13.238.215.3:8080/manage/cloud/create

🏠 Projects

Dashboard > Manage Jenkins > Clouds > New cloud

☐ Use

Alternat

Used to

☐

The reg

Region

ap-sou

EC2 Key

none

+ Add

❗ No

Adva

Jenkins Credentials Provider: Jenkins

ubuntu

☐ Treat username as secret ?

Private Key

☒ Enter directly

Key

Enter New Secret Below

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEA0aJmXN0i1snMTvfGn1t8yY6AUTOzn7Tj6DnL4u5pTqE0cBP
ezuCj1lYa1CaZcqE/TzsBKPsTgEqH00KKaU0oX0qvaBEW5GkTD3tUtIbEgmdZq+C

Passphrase

← → ↻ ⚠ Not secure 13.238.215.3:8080/manage/cloud/create

🏠 Projects

Dashboard > Manage Jenkins > Clouds > New cloud

The regions will be populated once the keys above are entered.

Region ?

ap-southeast-2

EC2 Key Pair's Private Key ?

ubuntu

+ Add

Advanced

Test Connection

AMIs

List of AMIs to be launched as agents

Add

Save

Clouds

[+ New cloud](#)

During node provisioning, clouds are tried in the order they appear in this table.

Order	Name
☁	Ubuntu ⚙

Jenkins 2.462.1

Configure

[⚙ General](#)[🔧 Advanced Project Options](#)[🔧 Pipeline](#)

Plain text [Preview](#)

☐ Discard old builds [?](#)

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

☒ GitHub project

Project url [?](#)

Advanced [⌵](#)

☐ Pipeline speed/durability override [?](#)

☐ Preserve stashes from completed builds [?](#)

[Save](#)[Apply](#)

Configure

General

Advanced Project Options

Pipeline

Pipeline

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/binh0001/sd0772_msa

Credentials ?

ubuntu

+ Add

Save

Apply

Configure

General

Advanced Project Options

Pipeline

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Script Path ?

Jenkinsfile

☒ Lightweight checkout ?

[Pipeline Syntax](#)

Save

Apply

Projects

Dashboard > ubuntu >

</> Changes

▶ Build Now

⚙️ Configure

🗑️ Delete Pipeline


🐙 GitHub

📁 Stages

✎️ Rename

🔍 Pipeline Syntax

Permalinks

 Build History trend ▾

⋮ #1

Aug 23, 2024, 7:01 AM

[Atom feed for all](#) [Atom feed for failures](#)

Projects

aws Services Search [Alt+S]

inflating: aws/dist/docutils/writers/s5_html/themes/default/s5-core.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/small-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/framing.css
inflating: aws/dist/docutils/writers/odf_odt/styles.odt
inflating: aws/dist/docutils/writers/latex2e/titlingpage.tex
inflating: aws/dist/docutils/writers/latex2e/default.tex
inflating: aws/dist/docutils/writers/latex2e/titlepage.tex
inflating: aws/dist/docutils/writers/latex2e/xelatex.tex
inflating: aws/dist/docutils/writers/latex2e/docutils.sty
inflating: aws/dist/docutils/writers/pep_html/pep.css
inflating: aws/dist/docutils/writers/pep_html/template.txt

ubuntu@ip-10-0-4-50:~\$ sudo ./aws/install
You can now run: /usr/local/bin/aws --version
ubuntu@ip-10-0-4-50:~\$ aws --version
aws-cli/2.17.36 Python/3.11.9 Linux/6.2.0-1012-aws exe/x86_64.ubuntu.22
ubuntu@ip-10-0-4-50:~\$

i-032710dd488ec6626 (Ubuntu)
PublicIPs: 13.238.215.3 PrivateIPs: 10.0.4.50

Dashboard > ubuntu > #4

Status

</> Changes

📄 Console Output

✍️ Edit Build Information

🕒 Timings

🔗 Git Build Data

🔗 Pipeline Overview

📄 Pipeline Console

🧵 Thread Dump

⏸ Pause/resume

🔄 Replay

📋 Pipeline Steps

📁 Workspaces

🔙 Previous Build

✔️ **Build #4 (Aug 23, 2024, 7:24:04 AM)**

Keep this build forever

Started 5 sec ago

✎ Add description

🕒 Started by user [Nguyen Thai Binh](#)

🕒 This run spent 5 ms waiting in the queue.

git

Revision: 48ff2ecccd012038ef0b7bfc5beb63c165fd35e35
Repository: https://github.com/binh0001/sd0772_msa


- refs/remotes/origin/main

← → ↻

Not secure 13.238.215.3:8080/job/ubuntu/4/console

☆ | 📄 | ⬇️ | 👤

🏠 Projects

 **Jenkins**

🔍 Search (CTRL+K) ?

👤 Nguyen Thai Binh ▾ 🚪 log out

Dashboard > ubuntu > #4

Status

</> Changes

📄 Console Output

✍️ Edit Build Information

🗑 Delete build '#4'

🕒 Timings

🔗 Git Build Data

🔗 Pipeline Overview

📄 Pipeline Console

🔄 Restart from Stage

🔄 Replay

📋 Pipeline Steps

📁 Workspaces

🔙 Previous Build

✔️ **Console Output**

📄 Download

📄 Copy

📄 View as plain text

Started by user [Nguyen Thai Binh](#)

Obtained Jenkinsfile from git https://github.com/binh0001/sd0772_msa

[Pipeline] Start of Pipeline

[Pipeline] withEnv

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Docker Build Frontend)

[Pipeline] node

Running on [Jenkins](#) in /var/lib/jenkins/workspace/ubuntu

[Pipeline] {

[Pipeline] checkout

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

using credential ubuntu-user

> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/ubuntu/.git # timeout=10

Fetching changes from the remote Git repository

> git config remote.origin.url https://github.com/binh0001/sd0772_msa # timeout=10

Fetching upstream changes from https://github.com/binh0001/sd0772_msa

> git --version # timeout=10

> git --version # 'git version 2.34.1'

using GIT_SSH to set credentials

Verifying host key using known hosts file

← → ↻ ap-southeast-2.console.aws.amazon.com/ecr/private-registry/repositories?region=ap-southeast-2 ☆ 📄 📄

Projects

AWS Services 🔍 Search [Alt+S] 📄 🔔 ⚙️ Sydney nguyenthainh261022@gmail.com

Amazon Elastic Container Registry

Private registry

Repositories

Settings

Public registry

Repositories

Settings

ECR public gallery

Amazon ECS

Amazon EKS

Getting started

Documentation

Amazon ECR > Private registry > Repositories

Create repository

Repositories (2) 🔁 View push commands Delete Actions

🔍 Search by repository substring

	Repository name ▲	URI	Created at ▼	Tag immutability	Encryption type
<input type="radio"/>	backend	491085412209.dkr.ecr.ap-southeast-2.amazonaws.com/backend	August 23, 2024, 11:37:04 (UTC+07)	Immutable	AES-256
<input type="radio"/>	frontend	491085412209.dkr.ecr.ap-southeast-2.amazonaws.com/frontend	August 23, 2024, 11:37:04 (UTC+07)	Immutable	AES-256

← → ↻ ap-southeast-2.console.aws.amazon.com/eks/home?region=ap-southeast-2#/clusters/sd0772-devops-eks?selectedTab=cluster-resources-tab&selectedResourceId=pods 🔍 ☆ 📄 📄

Projects

AWS Services 🔍 Search [Alt+S] 📄 🔔 ⚙️ Sydney nguyenthainh261022@gmail.com

Amazon Elastic Kubernetes Service

Clusters

Amazon EKS Anywhere

Enterprise Subscriptions

Related services

Amazon ECR

AWS Batch

Console settings

Documentation

Submit feedback

sd0772-devops-eks 🔁 Delete cluster Upgrade version

🔔 End of extended support for Kubernetes version (1.27) is July 24, 2025. If you don't upgrade your cluster to a later version before that date, it will be automatically upgraded to Kubernetes version 1.28. Upgrade now

Cluster info

Status: Active

Kubernetes version: 1.27

Support period: Extended support until July 24, 2025

Provider: EKS

Overview

Resources

Compute

Networking

Add-ons

Access

Observability

Upgrade insights

Update history

Tags

Resource types

Workloads: Pods (10) View details

Pod is the smallest and simplest Kubernetes object. A Pod represents a set of running containers on your cluster. Learn more

All Namespaces 🔍 Filter Pods by name

Name	Age
<input type="radio"/> aws-node-scgr	Created 3 hours ago
<input type="radio"/> backend-6b64cbbfdd-s7kph	Created 5 minutes ago
<input type="radio"/> coredns-585465f899-dj4hk	Created 3 hours ago
<input type="radio"/> coredns-585465f899-sqx8l	Created 3 hours ago

← → ↻ ap-southeast-2.console.aws.amazon.com/eks/home?region=ap-southeast-2#/clusters/sd0772-devops-eks?selectedTab=cluster-resources-tab&selectedResourceId=pods

Projects

Amazon Elastic Kubernetes Service

Clusters

- Amazon EKS Anywhere
- Enterprise Subscriptions [New](#)

Related services

- Amazon ECR
- AWS Batch

Console settings

Documentation [↗](#)

Submit feedback

PodTemplates

Pods

- ReplicaSets
- Deployments
- StatefulSets
- DaemonSets
- Jobs
- CronJobs
- PriorityClasses
- HorizontalPodAutoscalers

Cluster

Service and networking

Config and secrets

Storage

Authentication

Authorization

Policy

Extensions

Workloads: Pods (10)

Pod is the smallest and simplest Kubernetes object. A Pod represents a set of running containers on your cluster. [Learn more](#)

All Namespaces Filter Pods by name

Name	Age
backend-4b64c3bfdd-47xph	Created 5 minutes ago
coredns-585465f899-dj4hk	Created 3 hours ago
coredns-585465f899-sqxt8	Created 3 hours ago
eks-csi-controller-65d7df5bd5-hgqtj	Created 3 hours ago
eks-csi-controller-65d7df5bd5-kg84p	Created 3 hours ago
eks-csi-node-cdwf8	Created 3 hours ago
frontend-7549cd7cb6-2st4k	Created 5 minutes ago
kube-proxy-xtwom	Created 3 hours ago
mongo-0	Created 5 minutes ago

View details

```
* Connection #0 to host 13.238.215.3 left intact

C:\Users\HP840\Desktop\DevopsTraining\sd0772_aws_infrastructure>kubectl port-forward service/frontend 3000:3000
Forwarding from 127.0.0.1:3000 -> 3000
Forwarding from [::1]:3000 -> 3000
Handling connection for 3000
Handling connection for 3000
Handling connection for 3000
Handling connection for 3000
```

← → ↻ localhost:3000

Projects

Todos for Webhook testing

No Todos to display

github.com/binh0001/sd0772_msa/settings/hooks/new

binh0001 / sd0772_msa

Type [] to search

<> Code

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We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, `x-www-form-urlencoded`, etc). More information can be found in [our developer documentation](#).

Payload URL *
http://13.238.215.3:8080/github-webhook

Content type *
application/x-www-form-urlencoded

Secret

SSL verification
By default, we verify SSL certificates when delivering payloads.
☒ Enable SSL verification ☐ Disable (not recommended)

Which events would you like to trigger this webhook?
☒ Just the push event.
☐ Send me everything

github.com/binh0001/sd0772_msa/settings/hooks

binh0001 / sd0772_msa

Type [] to search

<> Code

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Okay, that hook was successfully created. We sent a ping payload to test it out! Read more about it at <https://docs.github.com/webhooks/#ping-event>.

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Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

• http://13.238.215.3:8080/github-we... (pull_request and push)

Edit Delete

This hook has never been triggered.

← → ↻


Not secure 13.238.215.3:8080/job/ubuntu/lastBuild/

☆

🔖

👤

Projects

 **Jenkins**

🔍 Search (CTRL+K) ?

👤 Nguyen Thai Binh ▾

🚪 log out

Dashboard > ubuntu > #5

Status

</> Changes

📄 Console Output

📄 Edit Build Information

🗑️ Delete build '#5'

📄 Polling Log

🕒 Timings

🔗 Git Build Data

🔗 Pipeline Overview

📄 Pipeline Console

🔄 Restart from Stage

🔄 Replay

📄 Pipeline Steps

📄 Workspaces

✓ Build #5 (Aug 23, 2024, 8:09:36 AM)

Keep this build forever

📝 Add description

Started 1 min 19 sec ago
Took 22 sec

</> Changes

1. test webhook trigger (commit: c5c99b0) (details / githubweb)
2. Update README.md (commit: 87ddeb6) (details / githubweb)
3. test trigger (commit: 81937c4) (details / githubweb)
4. test trigger (commit: 2c4fb82) (details / githubweb)
5. test trigger (commit: 56c6a42) (details / githubweb)

🕒 Started by GitHub push by binh0001

🕒 This run spent:

- 7 sec waiting;
- 22 sec build duration;
- 29 sec total from scheduled to completion.

git

Revision: 56c6a427230dc617e7f564a6bfa4f4d7e6ab087b
Repository: https://github.com/binh0001/sd0772_msa

- refs/remotes/origin/main

← → ↻

Not secure 13.238.215.3:8080/job/ubuntu/configure

☆

🔖

📄

👤

⋮

Projects

Dashboard > ubuntu > Configuration

Configure

⚙️ General

🔗 Advanced Project Options

🔗 Pipeline

☐ Pipeline speed/durability override ?

☐ Preserve stashes from completed builds ?

☐ This project is parameterized ?

☐ Throttle builds ?

Build Triggers

☐ Build after other projects are built ?

☐ Build periodically ?

☒ GitHub hook trigger for GitScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

☐ Trigger builds remotely (e.g., from scripts) ?

Advanced Project Options

⋮

Save Apply

github.com/binh0001/sd0772_msa/settings/hooks

binh0001 / sd0772_msa

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Webhooks

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓ <http://13.238.215.3:8080/github-we...> (pull_request and push)
Last delivery was successful.

Edit Delete

Add webhook

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```
error from server (NotFound): namespaces "j" not found  
C:\Users\HP840\Desktop\DevopsTraining\sd1121_msa\k8s\az>kubectl port-forward svc/argocd-server -n argocd 8084:443  
Forwarding from 127.0.0.1:8084 -> 8080  
Forwarding from [::1]:8084 -> 8080
```

Not secure https://localhost:8084/login?return_url=https%3A%2F%2Flocalhost%3A8084%2Fapplications

Projects

Let's get stuff deployed!



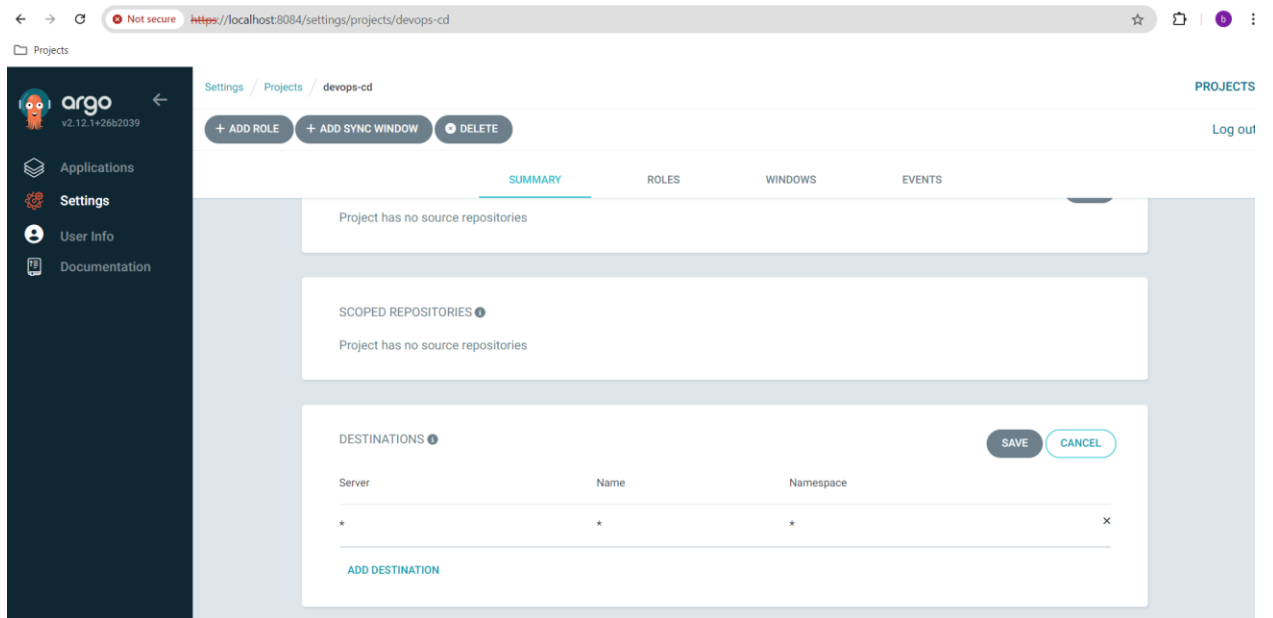
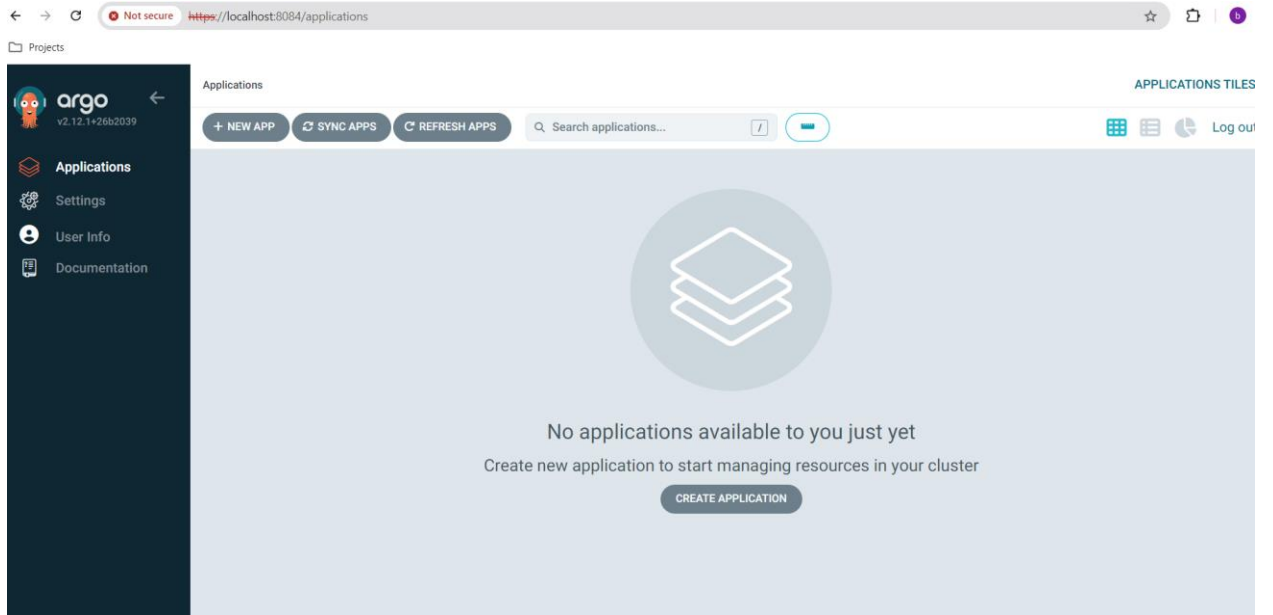
argo

Username

Password

SIGN IN

argo



https://github.com/binh0001/sd0772_msa.git

GIT ▼

Revision

main

Branches ▼

●

Path

./k8s/az

DESTINATION

Cluster URL

https://kubernetes.default.svc

URL ▼

https://github.com/binh0001/sd0772_msa.git

GIT ▼

Revision

main

Branches ▼

●

Path

./k8s/az

DESTINATION

Cluster URL

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GIT ▼

Revision

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Branches ▼

●

Path

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DESTINATION

Cluster URL

https://kubernetes.default.svc

URL ▼

https://github.com/binh0001/sd0772_msa.git

GIT ▾

Revision

main

Branches ▾

Path

./k8s/az

DESTINATION

Cluster URL

https://kubernetes.default.svc

URL ▾

```
C:\Windows\System32>kubect1 get all
```

NAME	READY	STATUS	RESTARTS	AGE
pod/backend-84c98fb647-542dc	1/1	Running	8 (17h ago)	17h
pod/frontend-9c58f764c-1v86r	1/1	Running	11 (16h ago)	17h
pod/mongo-0	1/1	Running	0	17h

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/backend	ClusterIP	10.0.177.55	<none>	3000/TCP	17h
service/frontend	ClusterIP	10.0.143.187	<none>	3000/TCP	17h
service/mongo	ClusterIP	10.0.213.77	<none>	27017/TCP	17h

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/backend	1/1	1	1	17h
deployment.apps/frontend	1/1	1	1	17h

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/backend-7bd8df94c8	0	0	0	17h
replicaset.apps/backend-84c98fb647	1	1	1	17h
replicaset.apps/frontend-754df96f6	0	0	0	17h
replicaset.apps/frontend-9c58f764c	1	1	1	17h


```
kubernetes-helm package files install completed. Performing other installation steps.
Downloading kubernetes-helm 64 bit
  from 'https://get.helm.sh/helm-v3.15.3-windows-amd64.zip'
Progress: 100% - Completed download of C:\Users\HP840\AppData\Local\Temp\chocolatey\kubernetes-helm\3.15.3\helm-v3.15.3-windows-amd64.zip (16.24 MB).
Download of helm-v3.15.3-windows-amd64.zip (16.24 MB) completed.
Hashes match.
Extracting C:\Users\HP840\AppData\Local\Temp\chocolatey\kubernetes-helm\3.15.3\helm-v3.15.3-windows-amd64.zip to C:\ProgramData\chocolatey\lib\kubernetes-helm\tools...
C:\ProgramData\chocolatey\lib\kubernetes-helm\tools
ShimGen has successfully created a shim for helm.exe
The install of kubernetes-helm was successful.
Software installed to 'C:\ProgramData\chocolatey\lib\kubernetes-helm\tools'

chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Did you know the proceeds of Pro (and some proceeds from other
licensed editions) go into bettering the community infrastructure?
Your support ensures an active community, keeps Chocolatey tip-top,
plus it nets you some awesome features!
https://chocolatey.org/compare

C:\Windows\System32>helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
'prometheus-community' has been added to your repositories

C:\Windows\System32>helm repo add grafana https://grafana.github.io/helm-charts
'grafana' has been added to your repositories

C:\Windows\System32>helm repo add grafana https://grafana.github.io/helm-charts
'grafana' already exists with the same configuration, skipping

C:\Windows\System32>helm install prometheus prometheus-community/prometheus
NAME: prometheus
LAST DEPLOYED: Fri Aug 23 10:51:56 2024
NAMESPACE: bnt2408
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
The Prometheus server can be accessed via port 80 on the following DNS name from within your cluster:
prometheus-server.bnt2408.svc.cluster.local

Get the Prometheus server URL by running these commands in the same shell:
export POD_NAME=$(kubectl get pods --namespace bnt2408 -l "app.kubernetes.io/name=prometheus,app.kubernetes.io/instance=prometheus" -o jsonpath="{.items[0].metadata.name}")
kubectl --namespace bnt2408 port-forward $POD_NAME 9090
```

```
C:\Windows\System32>kubectl get all

NAME                                READY    STATUS                RESTARTS   AGE
pod/backend-84c98fb647-542dc        1/1      Running               8 (17h ago)  17h
pod/frontend-9c58f764c-lv86r        1/1      Running               11 (17h ago)  17h
pod/grafana-cff6c7c8-57h94          0/1      ContainerCreating    0           7s
pod/mongo-0                          1/1      Running               0           17h
pod/prometheus-alertmanager-0       1/1      Running               0           4m53s
pod/prometheus-kube-state-metrics-79c867c577-r87hj  1/1      Running               0           4m53s
pod/prometheus-prometheus-node-exporter-8sr6w      1/1      Running               0           4m53s
pod/prometheus-prometheus-pushgateway-57c548bd6f-2bw6s  1/1      Running               0           4m53s
pod/prometheus-server-65b79f9866-rw8xl  2/2      Running               0           4m53s

NAME                                TYPE          CLUSTER-IP      EXTERNAL-IP    PORT(S)          AGE
service/backend                     ClusterIP      10.0.177.55     <none>         3000/TCP          17h
service/frontend                    ClusterIP      10.0.143.187    <none>         3000/TCP          17h
service/grafana                     ClusterIP      10.0.150.27     <none>         80/TCP            7s
service/mongo                       ClusterIP      10.0.213.77     <none>         27017/TCP         17h
service/prometheus-alertmanager     ClusterIP      10.0.33.236     <none>         9093/TCP          4m54s
service/prometheus-alertmanager-headless ClusterIP      None            <none>         9093/TCP          4m54s
service/prometheus-kube-state-metrics ClusterIP      10.0.98.208     <none>         8080/TCP          4m54s
service/prometheus-prometheus-node-exporter ClusterIP      10.0.69.126     <none>         9100/TCP          4m54s
service/prometheus-prometheus-pushgateway ClusterIP      10.0.162.4      <none>         9091/TCP          4m54s
service/prometheus-server           ClusterIP      10.0.223.61     <none>         80/TCP            4m54s

NAME                                DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABLE    NODE SELECTOR    AGE
daemonset.apps/prometheus-prometheus-node-exporter  1           1           1           1           1          kubernetes.io/os=linux  4m54s

NAME                                READY    UP-TO-DATE    AVAILABLE    AGE
deployment.apps/backend              1/1      1             1           17h
deployment.apps/frontend             1/1      1             1           17h
deployment.apps/grafana              0/1      1             0           8s
deployment.apps/prometheus-kube-state-metrics  1/1      1             1           4m54s
deployment.apps/prometheus-prometheus-pushgateway  1/1      1             1           4m54s
deployment.apps/prometheus-server    1/1      1             1           4m54s

NAME                                DESIRED    CURRENT    READY    AGE
replicaset.apps/backend-7bd8df94c8   0           0           0           17h
replicaset.apps/backend-84c98fb647   1           1           1           17h
replicaset.apps/frontend-754df96f6   0           0           0           17h
replicaset.apps/frontend-9c58f764c   1           1           1           17h
replicaset.apps/grafana-cff6c7c8     1           1           0           8s
replicaset.apps/prometheus-kube-state-metrics-79c867c577  1           1           1           4m54s
replicaset.apps/prometheus-prometheus-pushgateway-57c548bd6f  1           1           1           4m54s
replicaset.apps/prometheus-server-65b79f9866  1           1           1           4m54s

NAME                                READY    AGE
statefulset.apps/mongo               1/1      17h
statefulset.apps/prometheus-alertmanager  1/1      4m54s
```

