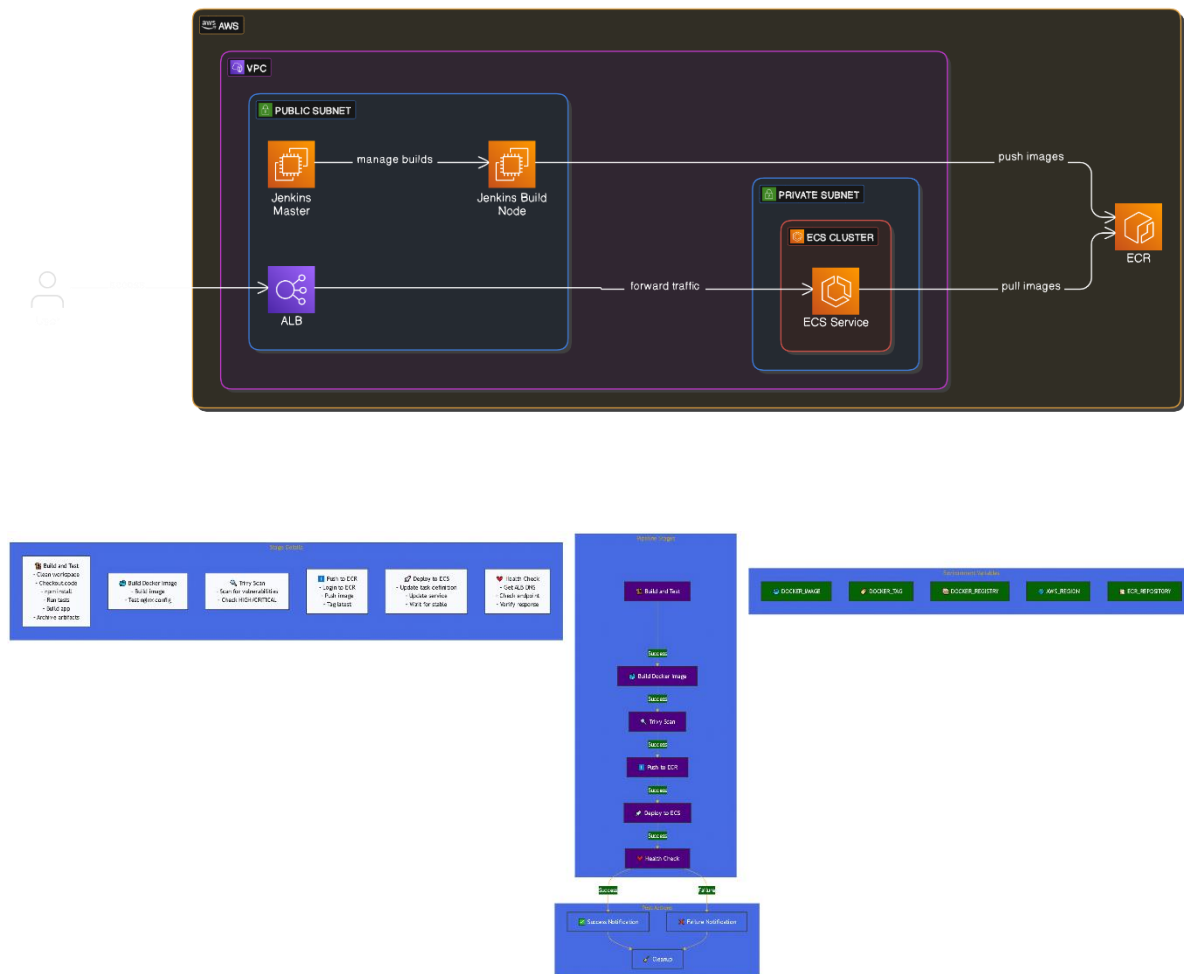


Jenkins CI/CD Pipeline for AWS ECS Deployment



1. Create AWS Key Pair

```
aws ec2 create-key-pair --key-name jenkins-node-key --query 'KeyMaterial' --output text >
jenkins-node-key.pem
```

```
chmod 400 jenkins-node-key.pem
```

2. Set Required Environment Variables

```
export TF_VAR_key_pair_name="jenkins-node-key"
```

```
export TF_VAR_aws_region="eu-north-1"
```

```
export TF_VAR_app_environment="production"
```

```
ubuntu@ip-172-31-22-184:~$ aws ec2 create-key-pair --key-name jenkins-node-key --query 'KeyMaterial' --output text > jenkins-node-key.pem
ubuntu@ip-172-31-22-184:~$ chmod 400 jenkins-node-key.pem
ubuntu@ip-172-31-22-184:~$ export TF_VAR_key_pair_name="jenkins-node-key"
ubuntu@ip-172-31-22-184:~$ export TF_VAR_aws_region="eu-north-1"
ubuntu@ip-172-31-22-184:~$ export TF_VAR_app_environment="production"
ubuntu@ip-172-31-22-184:~$
ubuntu@ip-172-31-22-184:~$
ubuntu@ip-172-31-22-184:~$
```

3. Creating IAM Role: MySessionManagerrole

Step 1: Create the IAM Role

1. Navigate to the **AWS Management Console**.
2. Open the **IAM (Identity and Access Management) service**.
3. Select **Roles** from the left-hand menu.
4. Click on **Create Role**.
5. For **Trusted entity type**, select **AWS Service**.
6. Choose **EC2** as the service that will use this role.
7. Click **Next: Permissions**.

Step 2: Attach Managed Policies

Attach the following managed policies to the role:

1. **AmazonEC2ContainerRegistryPowerUser**
 - ARN: arn:aws:iam::aws:policy/AmazonEC2ContainerRegistryPowerUser
2. **AmazonSSMManagedInstanceCore**
 - ARN: arn:aws:iam::aws:policy/AmazonSSMManagedInstanceCore
3. **AmazonEC2FullAccess**
 - ARN: arn:aws:iam::aws:policy/AmazonEC2FullAccess
4. **AmazonECS_FullAccess**
 - ARN: arn:aws:iam::aws:policy/AmazonECS_FullAccess

Step 3: Configure Trust Relationship

1. On the **Review** page, enter the **Role Name** as MySessionManagerrole.
2. Add a **Description**: "Allows EC2 instances to call AWS services on your behalf."
3. Click **Create Role**.

Step 4: Verify the Role

1. Go to the IAM Roles section.
2. Search for MySessionManagerrole.
3. Confirm that all the managed policies are attached and the trust relationship is set to allow ec2.amazonaws.com to assume the role.

4. Clone the project

git clone https://github.com/sandeepkalathil/Jenkins-ECS-Project.git

cd Jenkins-ECS-Project/

cd terraform

terraform init

terraform plan

terraform apply

```
ubuntu@ip-172-31-22-184:~$
ubuntu@ip-172-31-22-184:~$ git clone https://github.com/sandeepkalathil/Jenkins-ECS-Project.git
Cloning into 'Jenkins-ECS-Project'...
remote: Enumerating objects: 196, done.
remote: Counting objects: 100% (196/196), done.
remote: Compressing objects: 100% (138/138), done.
remote: Total 196 (delta 85), reused 158 (delta 47), pack-reused 0 (from 0)
Receiving objects: 100% (196/196), 133.05 KiB | 6.65 MiB/s, done.
Resolving deltas: 100% (85/85), done.
ubuntu@ip-172-31-22-184:~$ cd Jenkins-ECS-Project/
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project$ cd te
terraform/ test/
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project$ cd terraform/
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project/terraform$
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project/terraform$ terraform init
Initializing the backend...
Initializing modules...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.90.1...
- Installed hashicorp/aws v5.90.1 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

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.
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project/terraform$ terraform plan
```

```
Outputs:
```

```
alb_dns_name = "task-manager-alb-565818351.eu-north-1.elb.amazonaws.com"  
ecr_repository_url = "XXXXXXXXXXXX.ecr.eu-north-1.amazonaws.com/task-manager"  
ecs_cluster_name = "task-manager-cluster"  
jenkins_master_public_dns = "ec2-51-21-132-111.eu-north-1.compute.amazonaws.com"  
jenkins_master_public_ip = "51.21.132.111"  
jenkins_node_public_ip = "13.60.8.61"  
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project/terraform$
```

```
Outputs:
```

```
alb_dns_name = "task-manager-alb-565818351.eu-north-1.elb.amazonaws.com"  
ecr_repository_url = "XXXXXXXXXXXX.ecr.eu-north-1.amazonaws.com/task-manager"  
ecs_cluster_name = "task-manager-cluster"  
jenkins_master_public_dns = "ec2-51-21-132-111.eu-north-1.compute.amazonaws.com"  
jenkins_master_public_ip = "51.21.132.111"  
jenkins_node_public_ip = "13.60.8.61"  
ubuntu@ip-172-31-22-184:~/Jenkins-ECS-Project/terraform$
```

5.Key Components of the Infrastructure

Networking (VPC Module):

- Creates a VPC with public and private subnets.
- Configures a single NAT gateway for outbound internet access from private subnets.

Jenkins Master and Node EC2 Instances:

- Installs Jenkins, Docker, and AWS CLI on the master node.
- Configures the build node with Docker and Java for running builds.
- Security groups allow SSH and Jenkins access (though wide-open ingress rules should be restricted for production).

ECR for Container Storage:

- Creates an Elastic Container Registry (ECR) for storing Docker images.

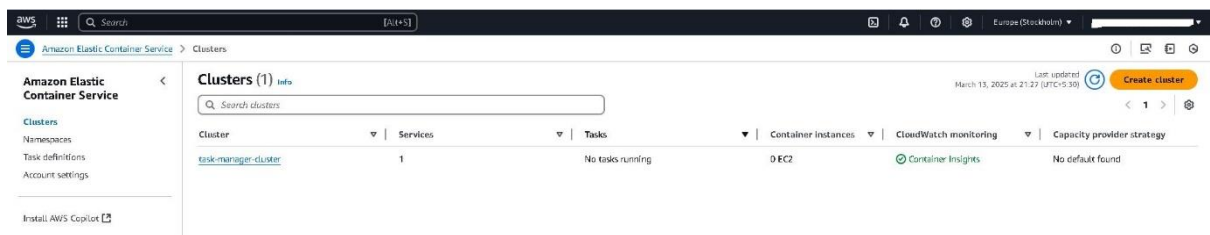
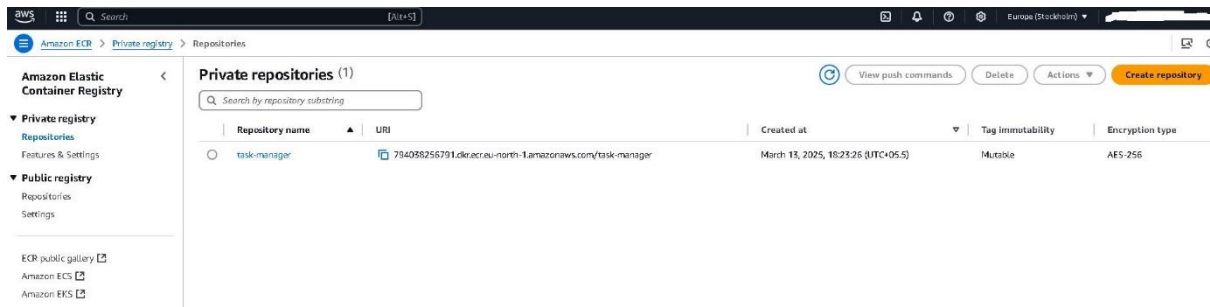
ECS Cluster and Fargate Task Definition:

- Defines an ECS cluster and Fargate-based service.
- Deploys the containerized application with an ALB for load balancing.
- Manages IAM roles and policies for task execution and logging.

Security and IAM Roles:

- Separate security groups for ALB and ECS tasks.
- IAM role for ECS task execution with access to ECR and CloudWatch logs.

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>		i-03187c85e2934bc21	Running	t3.micro	3/3 checks passed	View alarms +	eu-north-1a	ec2-13.60-244-192.eu-n...	13.60.244.192	–
<input type="checkbox"/>	jenkins-build-node	i-0787410468f584b36	Running	t3.medium	3/3 checks passed	View alarms +	eu-north-1a	ec2-13.60-8-61.eu-north...	13.60.8.61	–
<input type="checkbox"/>	jenkins-master	i-09eb278451f092ca	Running	t3.medium	3/3 checks passed	View alarms +	eu-north-1a	ec2-51.21-132-111.eu-n...	51.21.132.111	–



1. Jenkins Setup

On the Jenkins master server make sure that the Jenkins service is running, else start the service.

```

Session ID: sardexa-Sgv48om7sdx8tqps4Hn9u8ny Instance ID: i-09ab278451f092ca
Terminate

ubuntu@ip-10-0-101-149:~$ sudo systemctl status jenkins
jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
Active: failed (Result: exit-code) since Thu 2025-03-13 12:54:49 UTC; 3h 6min ago
Main PID: 2861 (code=exited, status=1/FAILURE)
CPU: 13ms

Mar 13 12:54:49 ip-10-0-101-149 systemd[1]: jenkins.service: Scheduled restart job, restart counter is at 5.
Mar 13 12:54:49 ip-10-0-101-149 systemd[1]: jenkins.service: start request repeated too quickly.
Mar 13 12:54:49 ip-10-0-101-149 systemd[1]: jenkins.service: Failed with result 'exit-code'.
Mar 13 12:54:49 ip-10-0-101-149 systemd[1]: Failed to start jenkins.service - Jenkins Continuous Integration Server.
Mar 13 12:55:01 ip-10-0-101-149 systemd[1]: jenkins.service: start request repeated too quickly.
Mar 13 12:55:01 ip-10-0-101-149 systemd[1]: jenkins.service: Failed with result 'exit-code'.
Mar 13 12:55:01 ip-10-0-101-149 systemd[1]: Failed to start jenkins.service - Jenkins Continuous Integration Server.
ubuntu@ip-10-0-101-149:~$ sudo systemctl start jenkins
ubuntu@ip-10-0-101-149:~$ sudo systemctl status jenkins
jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
Active: active (running) since Thu 2025-03-13 16:01:46 UTC; 3s ago
Main PID: 7201 (java)
Tasks: 47 (limit: 4586)
Memory: 770.5M (peak: 786.0M)
CPU: 23.269s
CGroup: /system.slice/jenkins.service
└─7201 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Mar 13 16:01:40 ip-10-0-101-149 jenkins[7201]: 320330f16d5e44e6d39a20177dd4701
Mar 13 16:01:40 ip-10-0-101-149 jenkins[7201]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Mar 13 16:01:40 ip-10-0-101-149 jenkins[7201]: *****
Mar 13 16:01:40 ip-10-0-101-149 jenkins[7201]: *****
Mar 13 16:01:40 ip-10-0-101-149 jenkins[7201]: *****
Mar 13 16:01:46 ip-10-0-101-149 jenkins[7201]: 2025-03-13 16:01:46.705+0000 [id=23] INFO hudson.InitiatorRunnerImpl#onAttained: Completed initialization
Mar 13 16:01:46 ip-10-0-101-149 jenkins[7201]: hudson.lifecycle.LifecycleReady: Jenkins is fully up and running
Mar 13 16:01:46 ip-10-0-101-149 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Mar 13 16:01:47 ip-10-0-101-149 jenkins[7201]: 2025-03-13 16:01:47.637+0000 [id=48] INFO hudson.DownloadService$DownloadableFile: Obtained the updated data file for Hudson tasks Maven MavenInstaller
Mar 13 16:01:47 ip-10-0-101-149 jenkins[7201]: 2025-03-13 16:01:47.638+0000 [id=48] INFO hudson.util.Retrier$Start: Performed the action check updates server successfully at the attempt #1
ubuntu@ip-10-0-101-149:~$

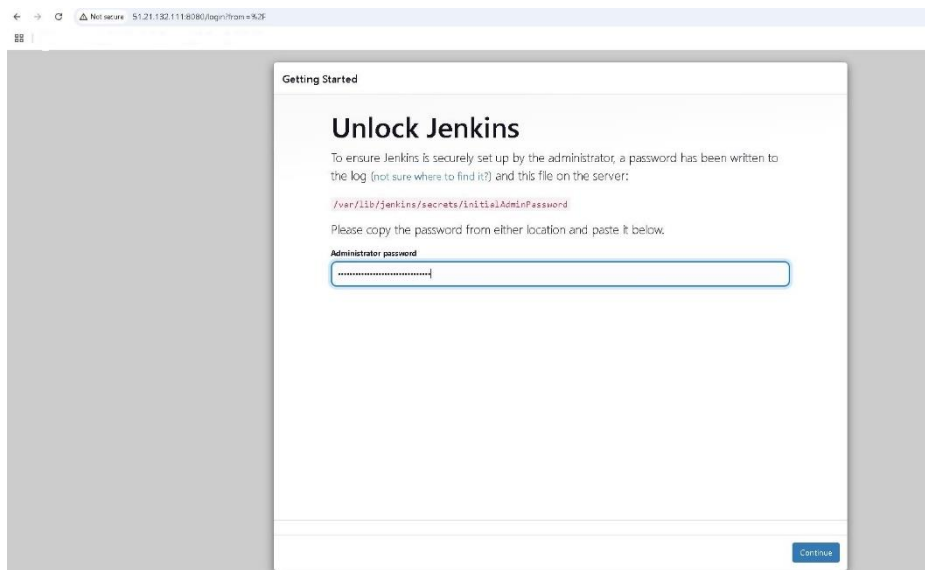
```

1. Access Jenkins Master

- Get Jenkins master public IP from Terraform output
- Access Jenkins UI: `http://<jenkins_master_public_ip>:8080`
- Get initial admin password:

```
ssh -i jenkins-node-key.pem ubuntu@<jenkins_master_public_ip>
```

```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```



2. Configure Jenkins Master

1. Install suggested plugins
2. Create admin user
3. Install additional plugins:
 - Docker Pipeline
 - AWS Credentials
 - Blue Ocean

← → ↻ Not secure 51.21.132.111:8080

Getting Started

Create First Admin User

Username

Password

Confirm password

Full name

E-mail address

Jenkins 2.492.2

Skip and continue as admin [Save and Continue](#)

← → ↻ Not secure 51.21.132.111:8080/manage/pluginManager/available

Jenkins

Dashboard > Manage Jenkins > Plugins

Plugins

📦 Updates

📦 Available plugins

📦 Installed plugins

⚙️ Advanced settings

📊 Download progress

🔍 Blue Ocean

Install	Name	Released
<input checked="" type="checkbox"/>	Docker Pipeline 611.v16e84da_6cd3ff pipeline DevOps Deployment docker Build and use Docker containers from pipelines.	8 days 16 hr ago
<input checked="" type="checkbox"/>	AWS Credentials 245.v8a_1b_7c11a_54d aws Allows storing Amazon IAM credentials within the Jenkins Credentials API. Store Amazon IAM access keys (AWSAccessKeyId and AWSSecretKey) within the Jenkins Credentials API. Also support IAM Roles and IAM MFA Token.	2 days 20 hr ago
<input checked="" type="checkbox"/>	Blue Ocean 1.27.17 External Site/Tool Integrations User Interface BlueOcean Aggregator	9 days 12 hr ago
<input type="checkbox"/>	Common API for Blue Ocean 1.27.17 External Site/Tool Integrations User Interface This plugin is a part of Blue Ocean UI	9 days 12 hr ago
<input type="checkbox"/>	REST API for Blue Ocean 1.27.17 External Site/Tool Integrations User Interface This plugin is a part of Blue Ocean UI	9 days 12 hr ago
<input type="checkbox"/>	Design Language 1.27.17 Jenkins Design Language Plugin. This plugin is a part of the Blue Ocean Plugin set.	9 days 12 hr ago
<input type="checkbox"/>	Blue Ocean Core JS 1.27.17 Blue Ocean Core JS Plugin. This plugin is a part of the Blue Ocean Plugin set.	9 days 12 hr ago

7. Configure Jenkins Build Node

1. Go to Manage Jenkins → Manage Nodes
2. Add new node:
 - Name: ec2-build-node
 - Permanent Agent: Yes
 - Remote root directory: /home/ubuntu/jenkins-agent
 - Labels: ec2-build-node
 - Launch method: Launch agent via SSH
 - Host: <EC2_INSTANCE_PUBLIC_IP> (from Terraform output)
 - Credentials: Add SSH with private key
 - Host Key Verification Strategy: Non verifying

← → ↻ ⚠ Not secure 51.21.132.111:8080/manage/computer/new

Jenkins

Dashboard > Manage Jenkins > Nodes > New node

New node

Node name

ec2-build-node

Type

☒ Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

Create

← → Not secure 51.21.132.111:8080/manage/computer/createItem

Dashboard > Manage Jenkins > Nodes

Number of executors ?

Remote root directory ?

Labels ?

Usage ?

Launch method ?

Host ?

Credentials ?

+ Add

Host Key Verification Strategy ?

Save

← → Not secure 51.21.132.111:8080/manage/computer/

Jenkins

Dashboard > Manage Jenkins > Nodes

Nodes

+ New Node Configure Monitors

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	42.94 GiB	0 B	42.94 GiB	0ms
	ec2-build-node	Linux (amd64)	In sync	24.20 GiB	0 B	24.20 GiB	66ms
	Data obtained	4 sec	3.9 sec	3.9 sec	3.9 sec	3.9 sec	3.9 sec

Icons: S M L

Legend

Build Queue: No builds in the queue.

Build Executor Status:

- Built-In Node 0/2
- ec2-build-node 0/1

8. Configure Jenkins Credentials

1. AWS Credentials:

- Kind: AWS Credentials
- ID: aws-credentials
- Description: AWS Credentials
- Access Key ID: Your AWS access key

- Secret Access Key: Your AWS secret key

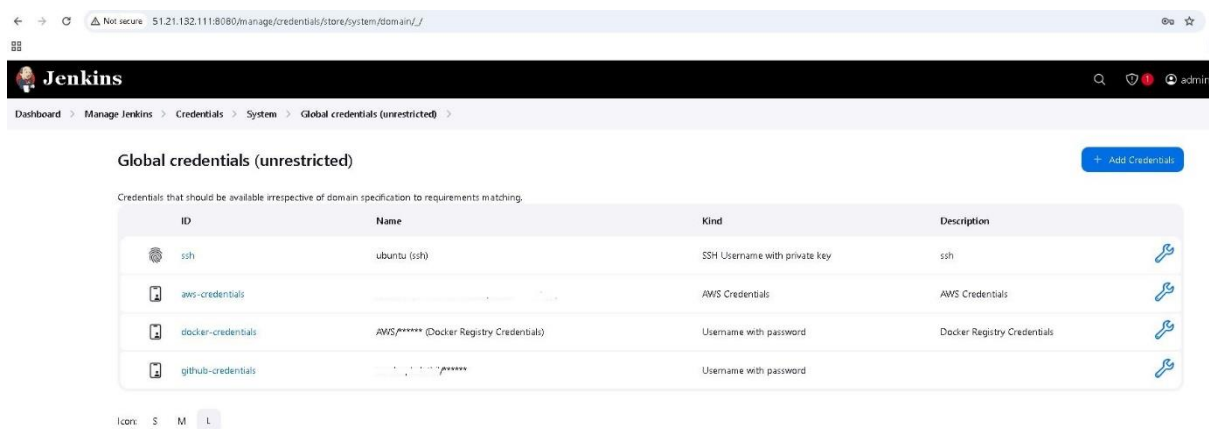
2. Docker Registry:

- Kind: Username with password
- ID: docker-credentials
- Description: Docker Registry Credentials
- Username: AWS
- Password: (Use AWS CLI get-login-password output)

Use command to generate password : `aws ecr get-login-password --region eu-north-1`

3. GitHub:

- Kind: Username with password
- ID: github-credentials
- Add your GitHub credentials

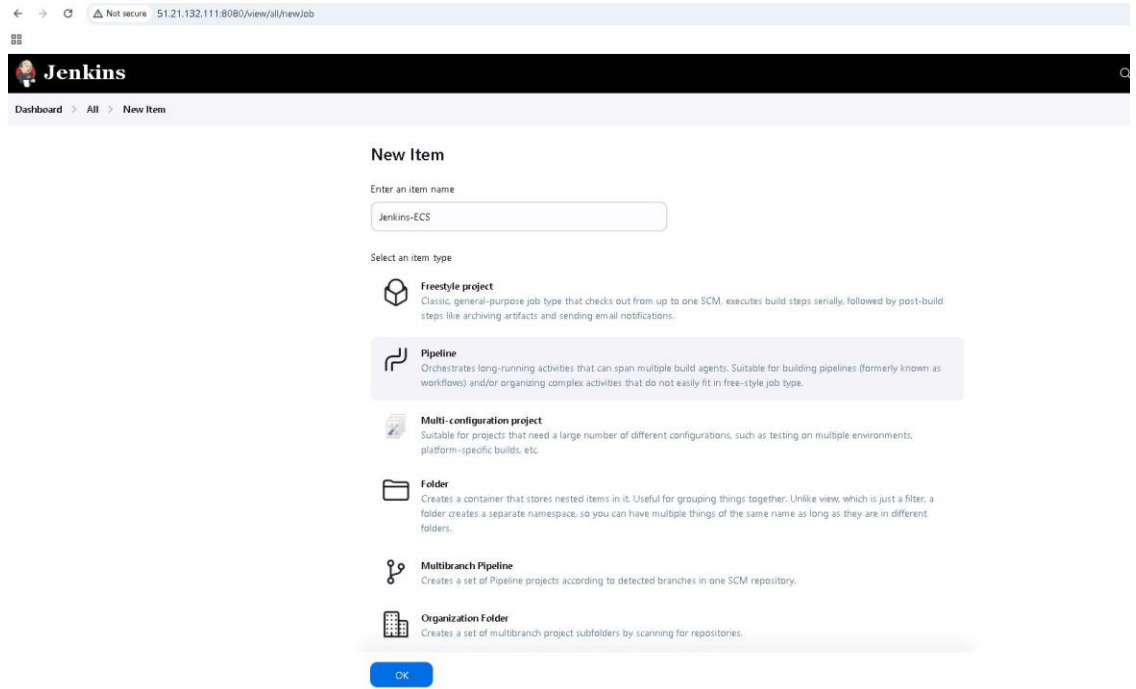


9. Pipeline Setup

1. Create Jenkins Pipeline

1. New Item → Pipeline
2. Configure Pipeline:
 - Definition: Pipeline script from SCM
 - SCM: Git

- Repository URL: Your repository URL
- Credentials: github-credentials (in case of Private Repo)
- Branch Specifier: */main
- Script Path: Jenkinsfile



← → 🔒 Not secure 51.21.132.111:8080/view/all/newJob

Jenkins

Dashboard > All > New Item

New Item

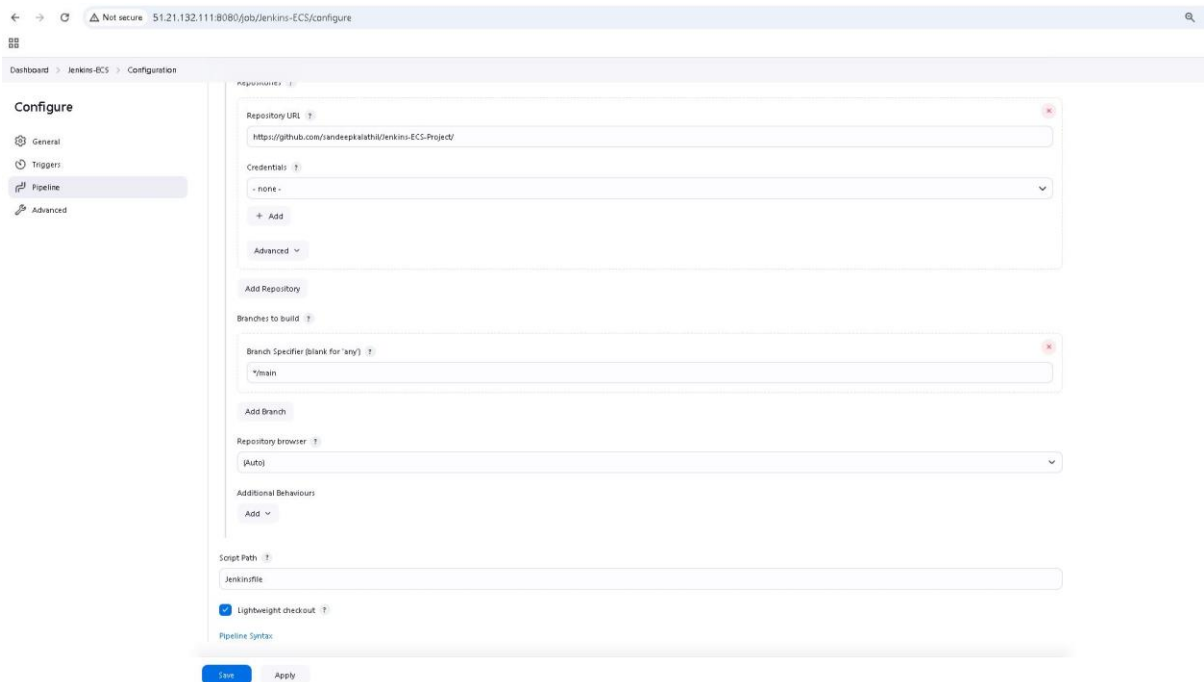
Enter an item name

Jenkins-ECS

Select an item type

- Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
- Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
- Folder**
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
- Multibranch Pipeline**
Creates a set of Pipeline projects according to detected branches in one SCM repository.
- Organization Folder**
Creates a set of multibranch project subfolders by scanning for repositories.

OK



← → 🔒 Not secure 51.21.132.111:8080/job/Jenkins-ECS/configure

Dashboard > Jenkins-ECS > Configuration

Configure

- General
- Triggers
- Pipeline**
- Advanced

Repository URL:

Credentials:

+ Add

Advanced ▾

Add Repository

Branches to build

Branch Specifier (blank for 'any'):

Add Branch

Repository browser:

Additional Behaviours

Add ▾

Script Path:

☒ Lightweight checkout

Pipeline Syntax

Save Apply

2. Pipeline Stages

- Build and Test: Runs in Docker container, NPM install and build, unit tests, static code analysis.
- Docker Image Creation: Builds Docker image, tests image configuration.
- Security Scan (Trivy): Scans for vulnerabilities.
- Push to ECR: Authenticates with ECR, pushes image with versioning.
- Deployment: Updates ECS service, performs health checks.

Before proceeding with the build, update the “Jenkinsfile” with the Target group ARN as shown below.

```
[Pipeline] {
[Pipeline] sh
+ aws elbv2 modify-target-group --target-group-arn arn:aws:elasticloadbalancing:eu-north-1:794038256791:targetgroup/task-manager-tg/3c88b969d202bb89 --health-check-path / --health-check-interval-seconds 30 --health-check-timeout-seconds 5 --region eu-north-1
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
> git config core.sparsecheckout # timeout=10
> git checkout -f 329cf751b05ab9154da753ef01423dcf2a54b916 # timeout=10

An error occurred (TargetGroupNotFound) when calling the ModifyTargetGroup operation: Target groups 'arn:aws:elasticloadbalancing:eu-north-1:794038256791:targetgroup/task-manager-tg/3c88b969d202bb89' not found
[Pipeline] error
```

```
}
steps {
  script {
    try {
      // Update ALB health check path
      sh """
        aws elbv2 modify-target-group \
          --target-group-arn arn:aws:elasticloadbalancing:eu-north-1:794038256791:targetgroup/task-manager-tg/7fbbd6e2df730808 \
          --health-check-path / \
          --health-check-interval-seconds 30 \
          --health-check-timeout-seconds 5 \
          --region ${AWS_REGION}
      """

      // Fetch current task definition
      sh """
        aws ecs describe-task-definition \
          --task-definition task-manager \
          --region ${AWS_REGION} \
          --query 'taskDefinition' \
          --output json > task-def.json
      """
    }
  }
}
```

Also, in the Jenkins file update the ECR repository name (Which can be found from the Terraform output)

```

pipeline {
    agent none

    environment {
        DOCKER_IMAGE = 'task-manager'
        DOCKER_TAG = "${BUILD_NUMBER}"
        DOCKER_REGISTRY = 'ecr-123456789012.dkr.ecr.eu-north-1.amazonaws.com'
        AWS_REGION = 'eu-north-1'
        ECR_REPOSITORY = 'task-manager'
        NODE_ENV = 'production'
    }
}

```

Once the build is complete the Jenkins build console will show Success message.

The screenshot displays the Jenkins console output for a build named 'Jenkins-ECS'. The output shows the pipeline configuration, environment variables, and the execution of various steps. The build is successful, as indicated by the 'SUCCESS' message at the end of the console output.

The Jenkins dashboard shows the build status for 'Jenkins-ECS' as 'Success' (green checkmark). The build duration is 2 min 36 sec. The dashboard also shows the build queue and build executor status.

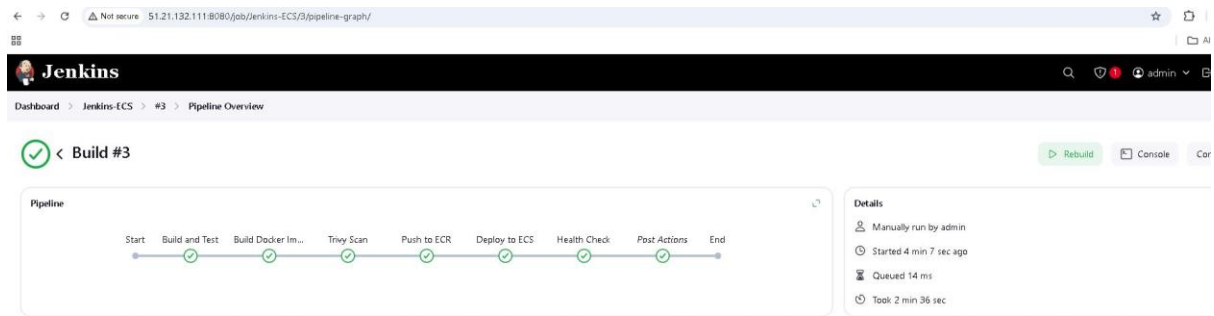
S	W	Name	Last Success	Last Failure	Last Duration
✓	🔄	Jenkins-ECS	41 min #3	44 min #2	2 min 36 sec

Build Queue: No builds in the queue.

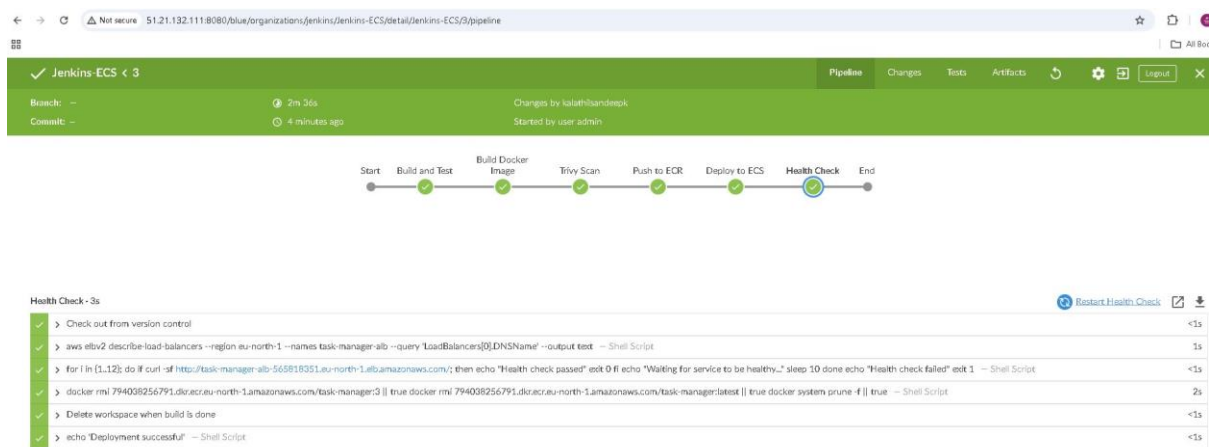
Build Executor Status:

- Built-In Node: 0/2
- ec2-build-node: 0/1

The image shows various steps used in the build and its status.

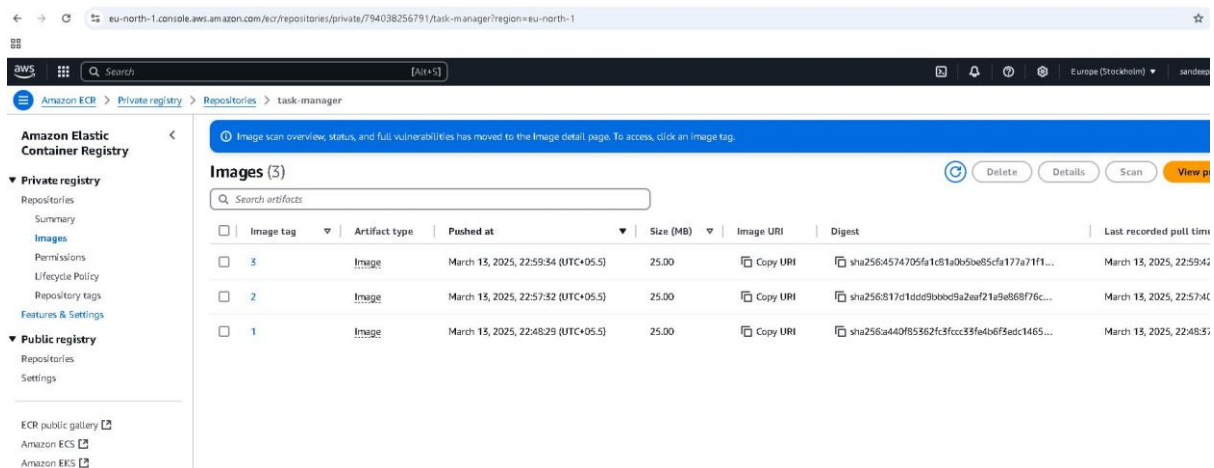


The below image is from Blue Ocean plugin interface. This also shows the Status in the pipeline.



10. Verify the Deployment

Verify that the newly built Docker images are present in ECR.



Check the ECS console to ensure tasks are running and services are active.

The screenshot shows the AWS ECS console for the 'task-manager-cluster'. The left sidebar contains the 'Amazon Elastic Container Service' navigation menu. The main content area displays the 'Cluster overview' with the following details:

- ARN:** arn:aws:ecs:eu-north-1:794038256791:cluster/task-manager-cluster
- Status:** Active
- CloudWatch monitoring:** Container Insights, View in CloudWatch
- Registered container instances:** -
- Services:** Draining: -, Active: 1
- Tasks:** Pending: -, Running: 2

The 'Tasks' tab is selected, showing a table of 6 tasks. The table includes columns for Task ID, Last status, Desired status, Task definition, Health status, Started by, Started at, and Group. The tasks are as follows:

Task	Last status	Desired status	Task definition	Health status	Started by	Started at	Group
012a726963eb4fe...	Running	Running	task-manager:13	Unknown	ecs-svc/385005071023...	7 minutes ago	servicetask-manager-s...
a60ef7aa04b9454...	Running	Running	task-manager:13	Unknown	ecs-svc/385005071023...	7 minutes ago	servicetask-manager-s...
4f49bd8bc8e4ae3...	Stopped	Stopped	task-manager:12	Unknown	ecs-svc/356606259330...	-	servicetask-manager-s...
81f3588586c14b1...	Stopped	Stopped	task-manager:12	Unknown	ecs-svc/356606259330...	-	servicetask-manager-s...
91e674b4152a4ba...	Stopped	Stopped	task-manager:12	Unknown	ecs-svc/356606259330...	-	servicetask-manager-s...
d4688765f26e438...	Stopped	Stopped	task-manager:12	Unknown	ecs-svc/356606259330...	-	servicetask-manager-s...

The screenshot shows the AWS ECS console for the 'task-manager-cluster'. The left sidebar contains the 'Amazon Elastic Container Service' navigation menu. The main content area displays the 'Cluster overview' with the following details:

- ARN:** arn:aws:ecs:eu-north-1:794038256791:cluster/task-manager-cluster
- Status:** Active
- CloudWatch monitoring:** Container Insights, View in CloudWatch
- Registered container instances:** -
- Services:** Draining: -, Active: 1
- Tasks:** Pending: -, Running: 2

The 'Services' tab is selected, showing a table of 1 service. The table includes columns for Service name, ARN, Status, Service type, Deployments and tasks, Last deployment, and Task definition. The service is as follows:

Service name	ARN	Status	Service type	Deployments and tasks	Last deployment	Task definition
task-manager-service	arn:aws:ecs:eu-n...	Active	REPLICA	2/2 Tasks running	Completed	task-manager:13

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Tell us what you think

task-manager-service

Service overview

Tasks (1/2)

Containers (1)

task-manager-service

Service overview

Tasks (1/2)

Containers (1)

task-manager-service

Service overview

Tasks (1/2)

Containers (1)

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task-manager-service

Service overview

Health and metrics

Status

Load balancer health

Health

task-manager-service

Service overview

Health and metrics

Status

Load balancer health

Health

task-manager-service

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Health and metrics

Status

Load balancer health

Health

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task-manager-cluster

Services

task-manager-service

Deployments

Active0 Pending2 Runningtask-manager-13Success

Health and metrics

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Configuration and networking

Service auto scaling

Tags

Last deployment

Deployment IDh0YkgJSHDSN_h2d8KUv5

Deployment statusSuccess

Deployment typeRolling update

Deployment duration1 minute, 19 seconds

Created atMarch 13, 2025 at 22:59 (UTC+5:30)

Started atMarch 13, 2025 at 22:59 (UTC+5:30)

Stopped at-

Finished atMarch 13, 2025 at 23:01 (UTC+5:30)

Service revisions

Service revision

Revision type

Task count at deployment completion

3850650710232045790

Target

2 Requested2 Running0 Pending

356662593306026621

Source

0 Requested0 Running0 Pending

Deployment configuration

Service deployment configuration controls how many tasks run during the deployment and the ordering of stopping and starting tasks.

Deployment typeRolling update (EC2)

Min and max running tasks100% min and 200% max

Deployment circuit breakerTurned off

CloudWatch alarmsTurned off

Service deployments

Service deployments take a few moments to start. Refresh the deployment view if your recent deployment is not showing.

Filter deployment statusAny status

Find deployments

Filter by a date and time range

Deployment ID	Status	Target service revision	Created at	Started at	Finished at	Deployn
h0YkgJSHDSN_h2d8KUv5	Success	3850650710232045790	March 13, 2025 at 22:59 (UTC+5:30)	March 13, 2025 at 22:59 (UTC+5:30)	March 13, 2025 at 23:01 (UTC+5:30)	1 minute
KkzSynRP78NwVwR8	Stopped	356662593306026621	March 13, 2025 at 18:26 (UTC+5:30)	March 13, 2025 at 18:26 (UTC+5:30)	March 13, 2025 at 22:59 (UTC+5:30)	4 hours

You can see the most recent 90-day history for all deployments started on or after October 25, 2024.

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Active0 Pending2 Runningtask-manager-13Success

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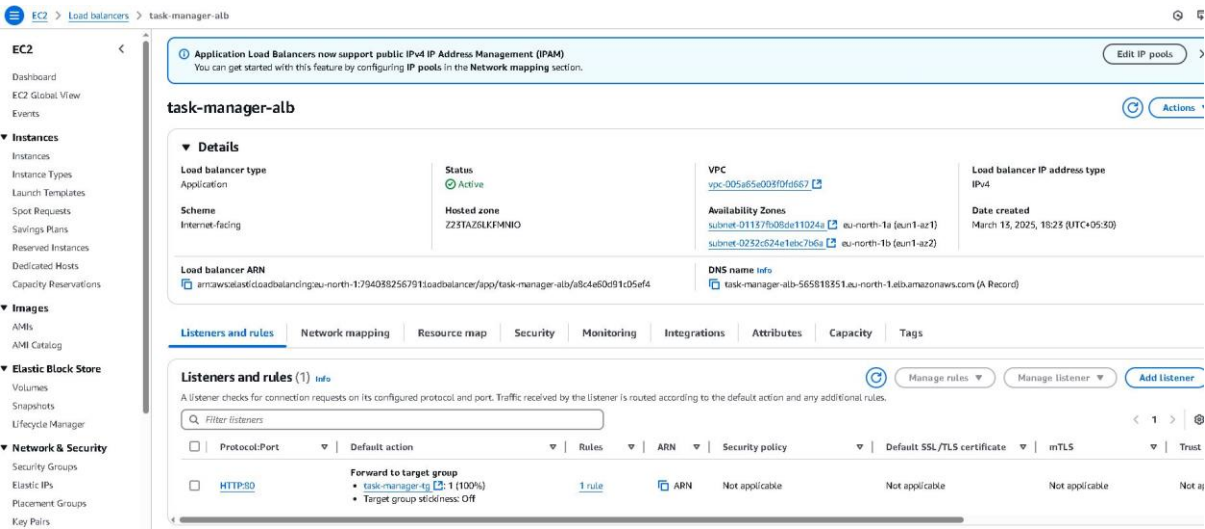
Tags

Events

Filter events by value

Started at	Message	Event ID
March 13, 2025 at 23:00 (UTC+5:30)	service task-manager-service has reached a steady state.	c39cd812-b054-4268-930
March 13, 2025 at 23:00 (UTC+5:30)	service task-manager-service deployment ecs-svc/3850650710232045790 deployment completed.	90f6f194-e972-457b-b00
March 13, 2025 at 23:00 (UTC+5:30)	service task-manager-service registered 1 targets in target-group task-manager-cg	85e40684-12d5-4294-a76
March 13, 2025 at 23:00 (UTC+5:30)	service task-manager-service has started 1 tasks: task 671ca726663eb4f8a7745db36806a76a	94a55dab-1d51-4226-901
March 13, 2025 at 23:00 (UTC+5:30)	service task-manager-service registered 1 targets in target-group task-manager-cg	fd1ca3c7-41d0-4031-a441
March 13, 2025 at 22:59 (UTC+5:30)	service task-manager-service has started 1 tasks: task a88ef7aa04b945496607c8255a76c88dc	b11045d7-e336-42e4-99f
March 13, 2025 at 22:58 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	2e6b55aa-c028-4066-accf
March 13, 2025 at 22:45 (UTC+5:30)	service task-manager-service has started 2 tasks: task 97a1674b-4152-a4ba-8853bb-4664a536649 task d466876572e4-43bb-980f-621297800f9	49a040f9-65e8-4814-b4e
March 13, 2025 at 22:29 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	d71741ca-c050-4910-a85d
March 13, 2025 at 22:16 (UTC+5:30)	service task-manager-service has started 2 tasks: task 4f49bbd8bcb64aa3a363551db771c215 task 81f15d8f586c14b10961b16c2b4d8d6d-d3	22944937-1258-4b36-9c4d
March 13, 2025 at 22:02 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	60e43ac4-8328-4362-911f
March 13, 2025 at 21:49 (UTC+5:30)	service task-manager-service has started 2 tasks: task 92c34f0a36a6421aac0dc768c1784d6 task db1167bc51494c48979670c9351743a	6cf0d8ca-3c58-4144-977f
March 13, 2025 at 21:36 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	23c464bb-f09b-45c8-b2a2
March 13, 2025 at 21:22 (UTC+5:30)	service task-manager-service has started 1 tasks: task 300b6c69f9f420b8954a2a22ec0d4e8b	1271ec56-989b-41d5-a1ff
March 13, 2025 at 21:22 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	5e37594f-d8a2-4c10-459f
March 13, 2025 at 21:22 (UTC+5:30)	service task-manager-service has started 2 tasks: task 8912b989b10d4ed7a480464aea7a7a9 task 92aa7f3823014c2a2a8a30c8f8909365	b07d9eb3-d67b-4aac-94ff
March 13, 2025 at 21:08 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	fcc3f6db-535c-47af-8f51
March 13, 2025 at 21:08 (UTC+5:30)	service task-manager-service has started 2 tasks: task 2a742d2792a845d3b3b43a84960ad032 task 3c0cf8f117c463b3f3db5d8e9a5e14	86cf5d1b-b81c-4a67-a3f4
March 13, 2025 at 20:55 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	4d7c5d8b-2f6b-4123-82b1
March 13, 2025 at 20:54 (UTC+5:30)	service task-manager-service has started 2 tasks: task 4f36776f2f4b-44a4-4a7c3b4281870f3b task c500bcb23a454f4ba05948019f6a8b6	a24c8532-9627-415f-a763
March 13, 2025 at 20:40 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	56b4f929-8219-47f8-892
March 13, 2025 at 20:40 (UTC+5:30)	service task-manager-service has started 2 tasks: task a2125456a79b4a3b972a703ba3a3d490 task f445c5c812f5447c97d396c250f7a886	d8b2f95d-61c7-4a2b-878b
March 13, 2025 at 20:27 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	b9c0eb92-9cc9-4828-984
March 13, 2025 at 20:26 (UTC+5:30)	service task-manager-service has started 2 tasks: task 8a287e511ba04277bf638b80117c2252 task c40f8d0143b7648619b2278c1d6415471	f1c233ae-5245-455d-9d85
March 13, 2025 at 20:13 (UTC+5:30)	service task-manager-service is unable to consistently start tasks successfully. For more information, see the Troubleshooting section of the Amazon ECS Developer Guide.	74939234-6634-4cc3-a64

Use the ALB DNS name to access the deployed website in the browser.



Confirm that the website loads successfully and functions as expected.

