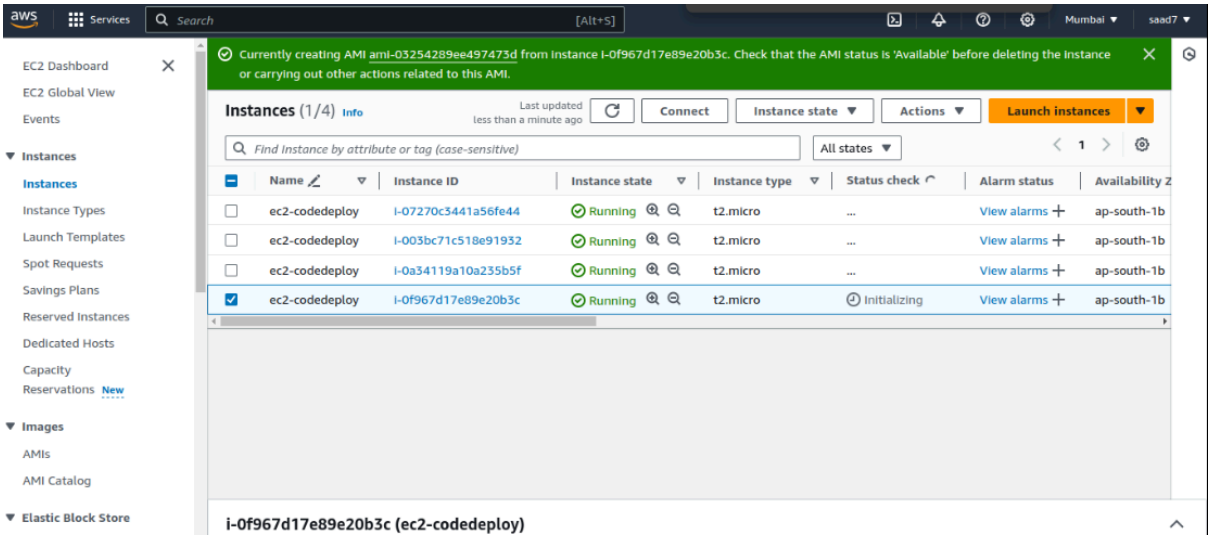
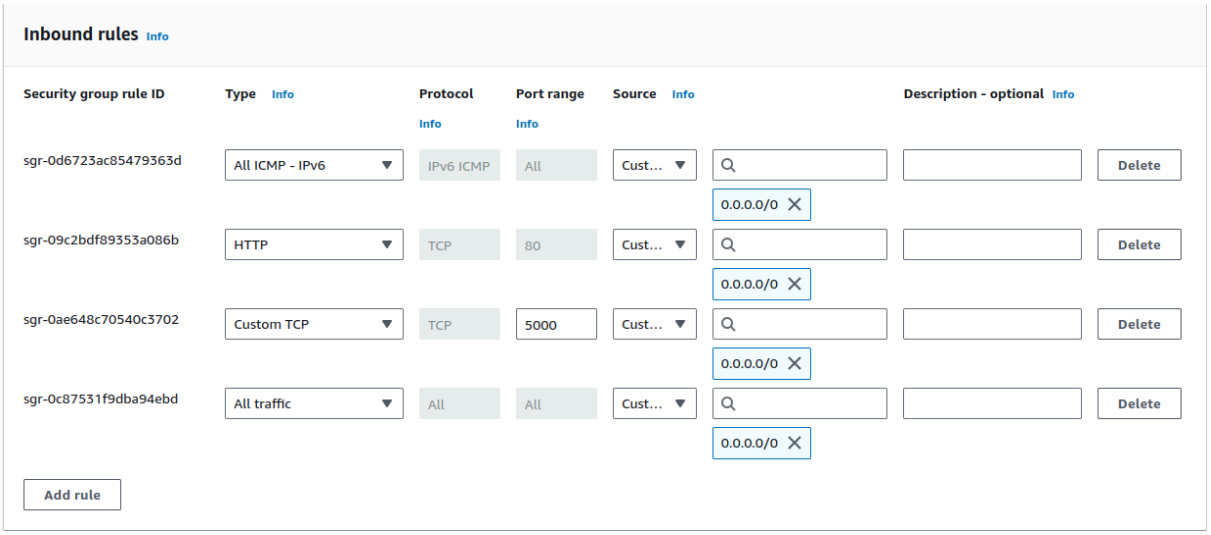
1) IAM Roles

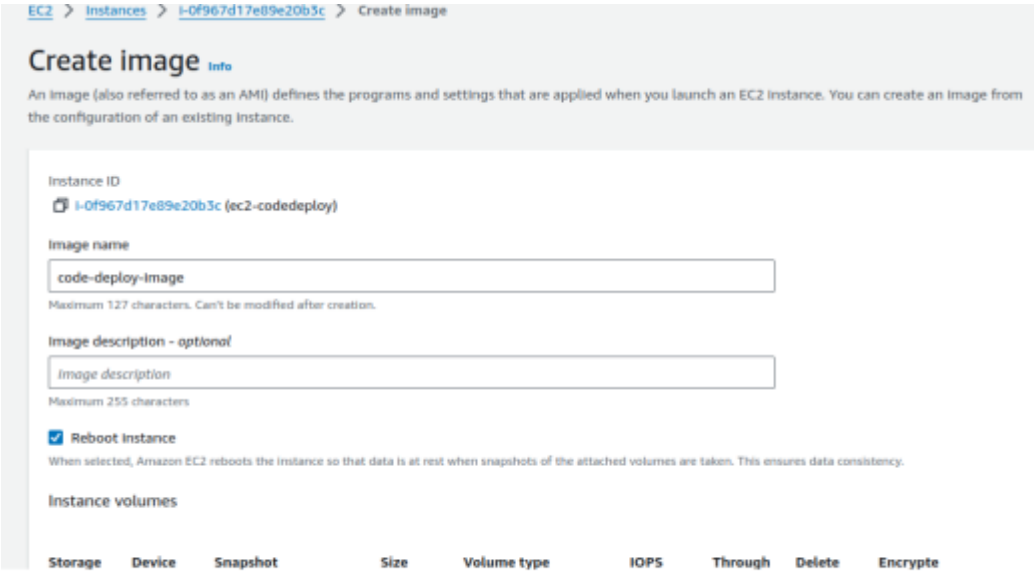
2) EC2 Instances



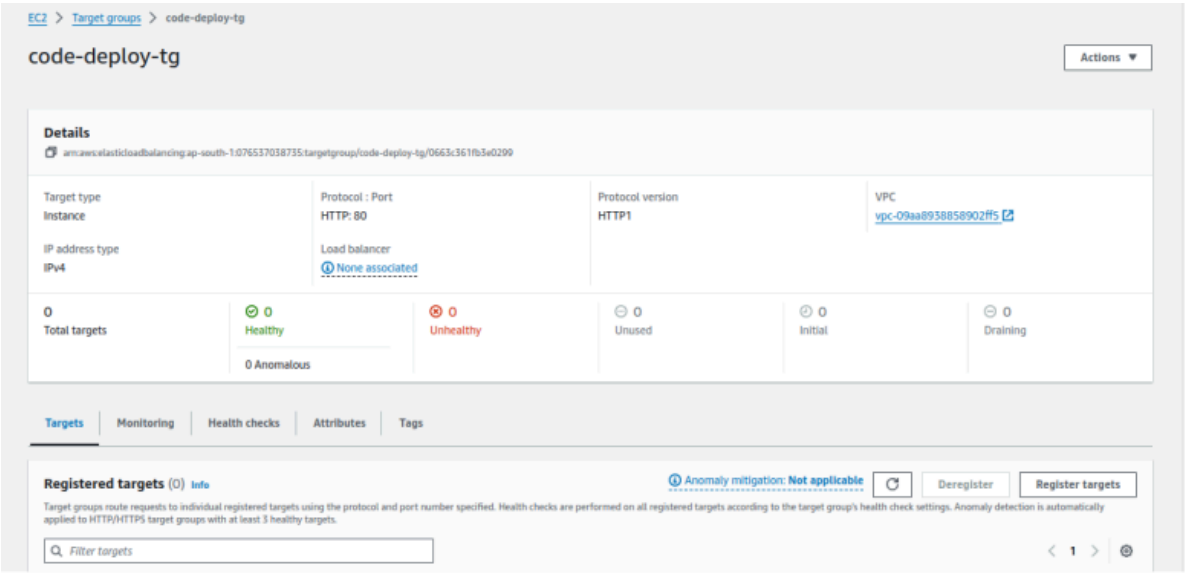
3) Security Group



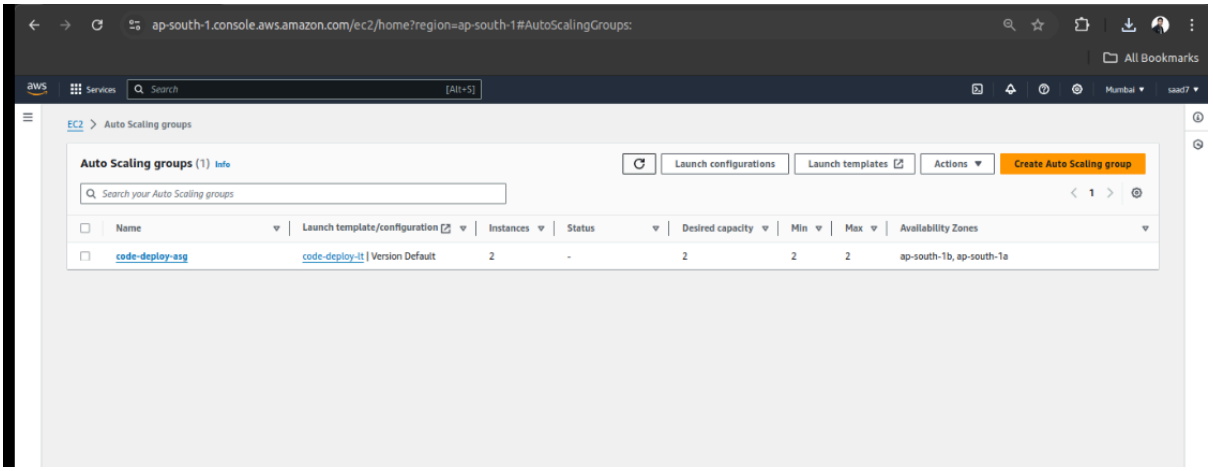
4) Image for AutoScaling Group



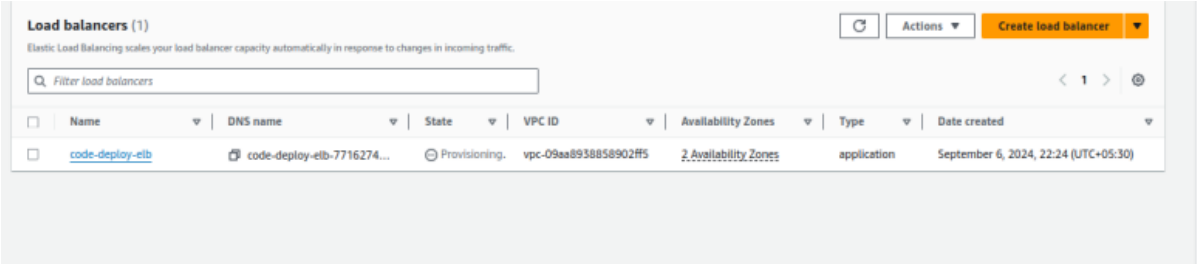
5) Target Group



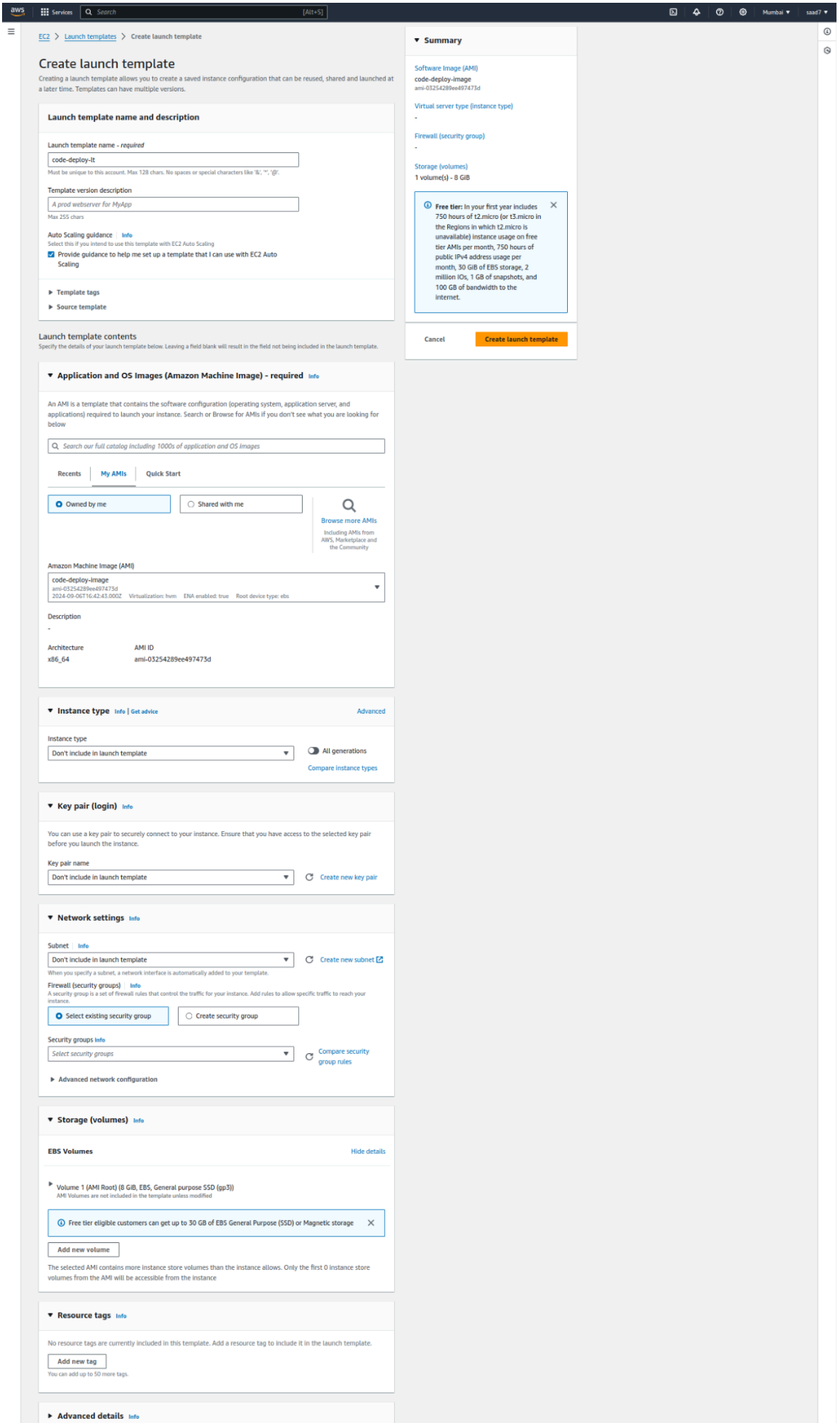
6) AutoScaling Group



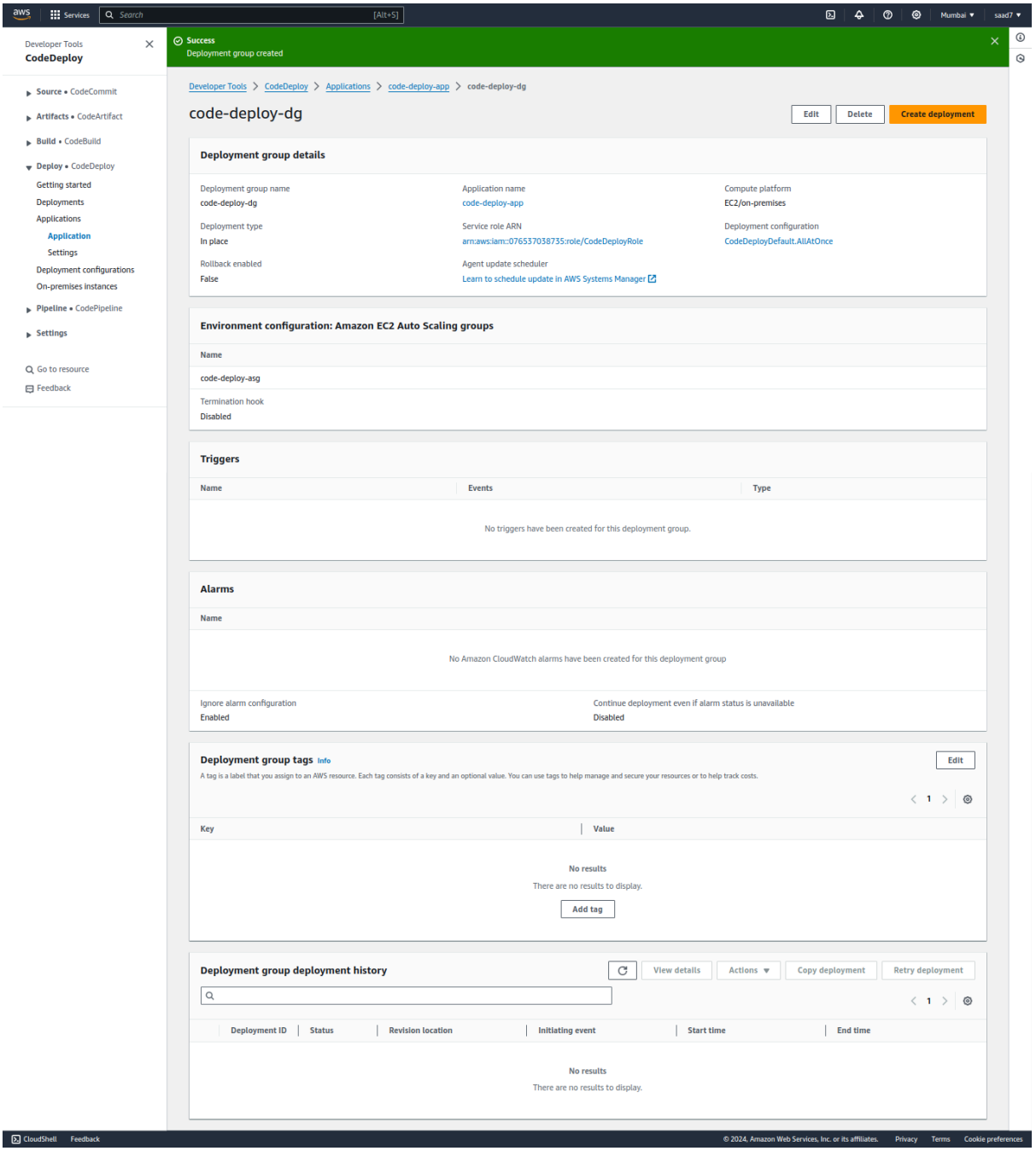
7) Load Balancer



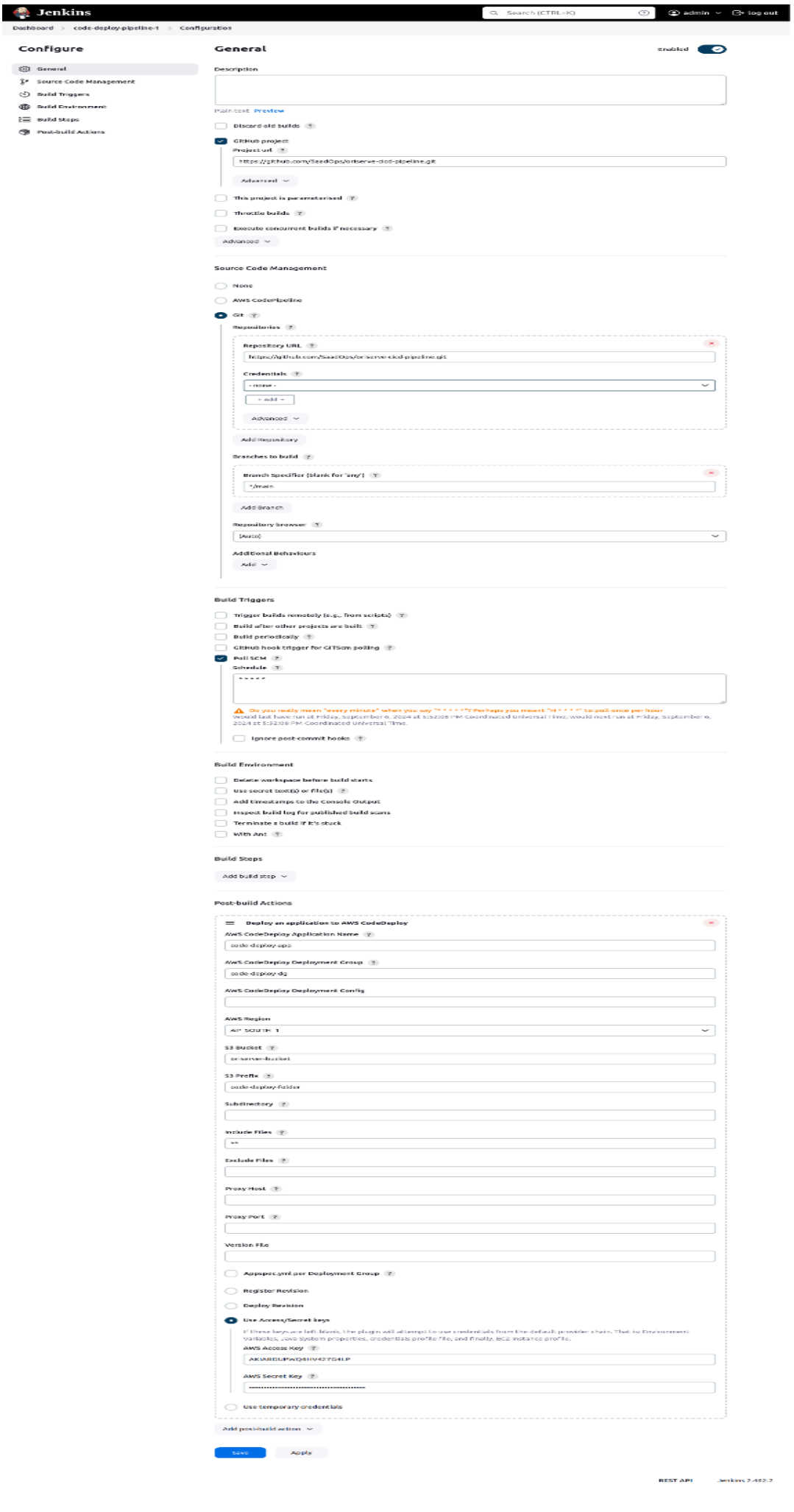
8) Launch Template

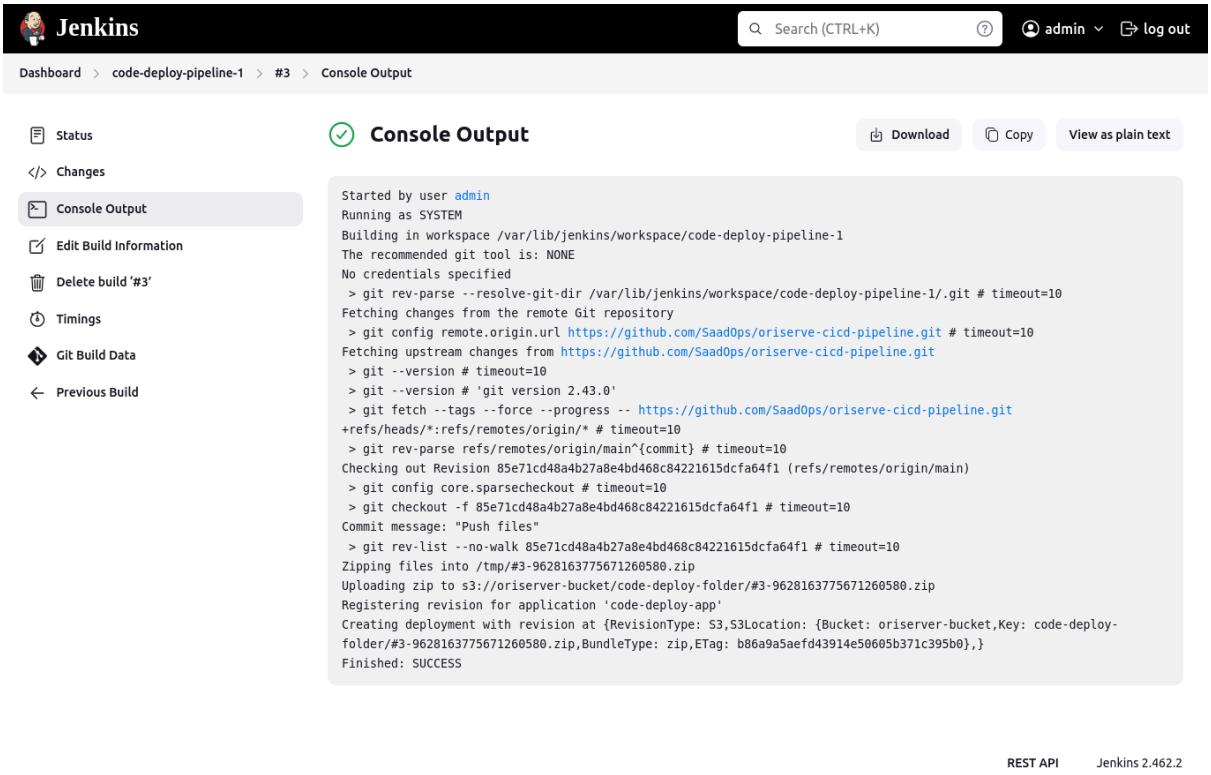

Services
Search
[Alt+S]
Mumbai
saad7
EC2 > Launch templates > Create launch template
Create launch template
Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.
Launch template name and description
Launch template name - required
code-deploy-lt
Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.
Template version description
A prod webserver for MyApp
Max 255 chars
Auto Scaling guidance | Info
Select this if you intend to use this template with EC2 Auto Scaling
Provide guidance to help me set up a template that I can use with EC2 Auto Scaling
Template tags
Source template
Launch template contents
Specify the details of your launch template below. Leaving a field blank will result in the field not being included in the launch template.
Application and OS Images (Amazon Machine Image) - required Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS Images
Recents
My AMIs
Quick Start
Owned by me
Shared with me
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
code-deploy-image
ami-03254289ee497473d
2024-09-06T16:42:43.000Z Virtualization: hvm ENA enabled: true Root device type: ebs
Description
-
Architecture
x86_64
AMI ID
ami-03254289ee497473d
Instance type Info | Get advice
Advanced
Instance type
Don't include in launch template
All generations
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name
Don't include in launch template
Create new key pair
Network settings Info
Subnet | Info
Don't include in launch template
Create new subnet
When you specify a subnet, a network interface is automatically added to your template.
Firewall (security groups) | Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Select existing security group
Create security group
Security groups Info
Select security groups
Compare security group rules
Advanced network configuration
Storage (volumes) Info
EBS Volumes
Hide details
Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp3))
AMI Volumes are not included in the template unless modified
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance
Resource tags Info
No resource tags are currently included in this template. Add a resource tag to include it in the launch template.
Add new tag
You can add up to 50 more tags.
Advanced details Info
Summary
Software Image (AMI)
code-deploy-image
ami-03254289ee497473d
Virtual server type (instance type)
-
Firewall (security group)
-
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Create launch template

9) Deployment Group

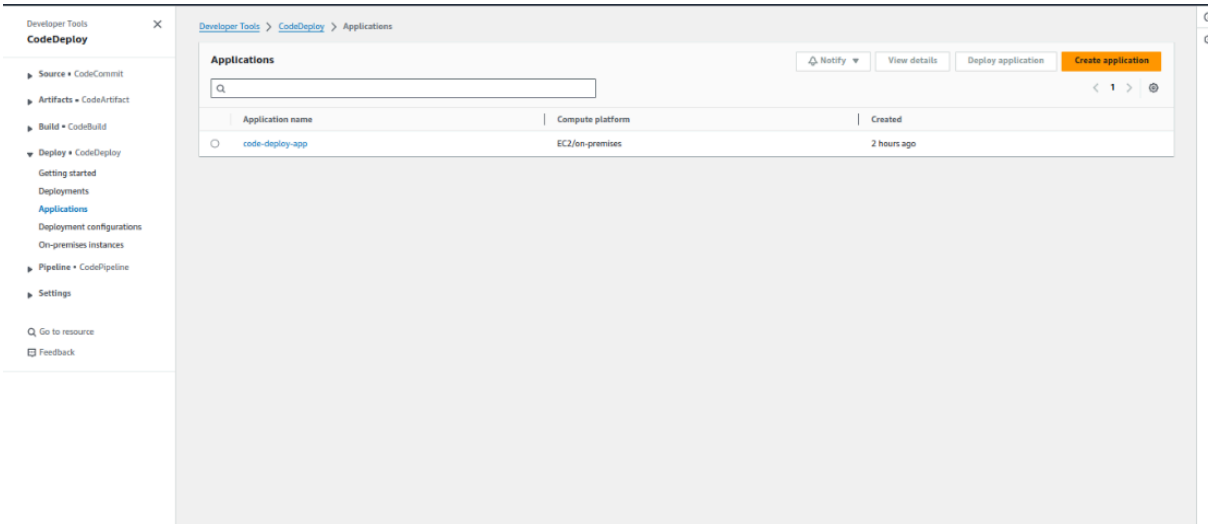


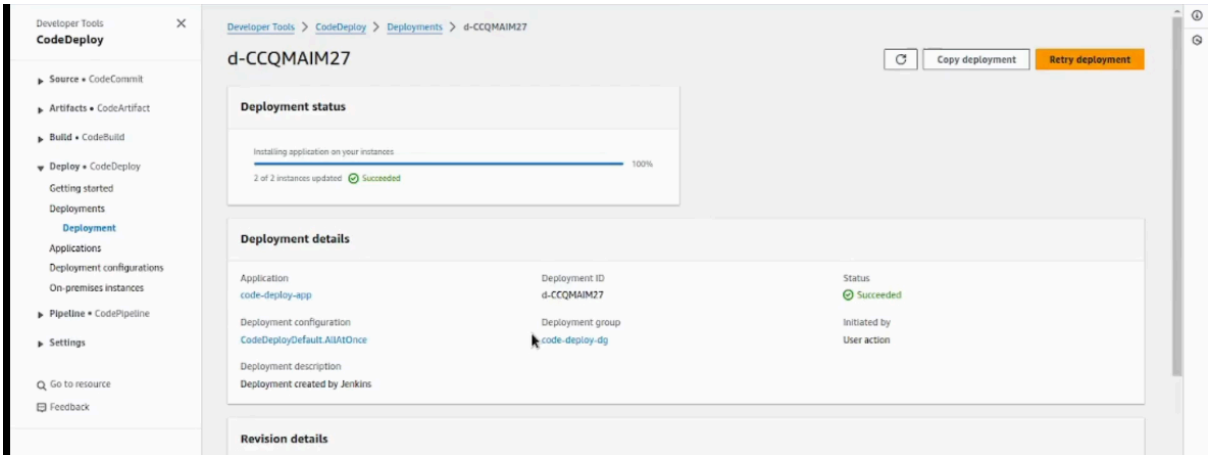
10) Jenkins Pipeline Configuration


Jenkins
Search (CTRL+K)
admin
log out
Dashboard > code-deploy-pipeline-1 > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
General
Enabled
Description
Plain text Preview
Discard old builds
GitHub project
Project url
https://github.com/SaadOps/observe-cicd-pipeline.git
Advanced
This project is parameterised
Throttle builds
Execute concurrent builds if necessary
Advanced
Source Code Management
None
AWS CodePipeline
Git
Repositories
Repository URL
https://github.com/SaadOps/observe-cicd-pipeline.git
Credentials
- none -
+ Add
Advanced
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/main
Add Branch
Repository browser
(Auto)
Additional Behaviours
Add
Build Triggers
Trigger builds remotely (e.g., from scripts)
Build after other projects are built
Build periodically
GitHub hook trigger for GITScm polling
Poll SCM
Schedule
* * * * *
Do you really mean "every minute" when you say "* * * * *"? Perhaps you meant "H * * * *" to poll once per hour
Would last have run at Friday, September 6, 2024 at 5:32:08 PM Coordinated Universal Time; would next run at Friday, September 6, 2024 at 5:32:08 PM Coordinated Universal Time.
Ignore post-commit hooks
Build Environment
Delete workspace before build starts
Use secret text(s) or file(s)
Add timestamps to the Console Output
Inspect build log for published build scans
Terminate a build if it's stuck
With Ant
Build Steps
Add build step
Post-build Actions
Deploy an application to AWS CodeDeploy
AWS CodeDeploy Application Name
code-deploy-app
AWS CodeDeploy Deployment Group
code-deploy-dg
AWS CodeDeploy Deployment Config
AWS Region
AP_SOUTH_1
S3 Bucket
observe-bucket
S3 Prefix
code-deploy-folder
Subdirectory
Include Files
**
Exclude Files
Proxy Host
Proxy Port
Version File
Appspec.yml per Deployment Group
Register Revision
Deploy Revision
Use Access/Secret keys
If these keys are left blank, the plugin will attempt to use credentials from the default provider chain. That is: Environment variables, Java System properties, credentials profile file, and finally, EC2 instance profile.
AWS Access Key
AKIAIBDUPWQSHV427G4LP
AWS Secret Key
Use temporary credentials
Add post-build action
Save
Apply
REST API
Jenkins 2.462.3

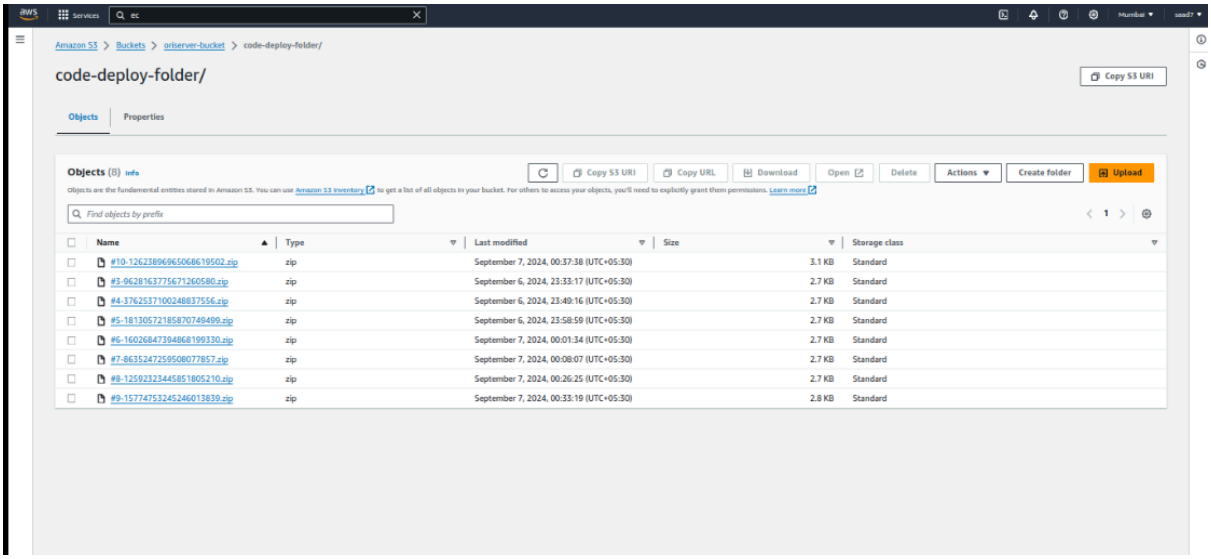


11) CodeDeploy

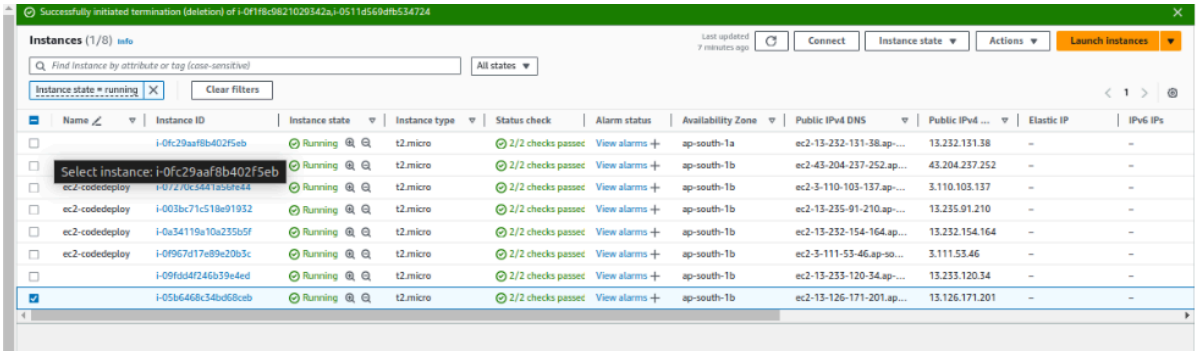




S3 Bucket



All Instances



Output:

Not secure
code-deploy-elb-771627403.ap-south-1.elb.amazonaws.com
All Bookmarks
Successful Deployment
(VERSION 1.0)

Not secure
code-deploy-elb-771627403.ap-south-1.elb.amazonaws.com
All Bookmarks
Successful Deployment
(VERSION 2.0)