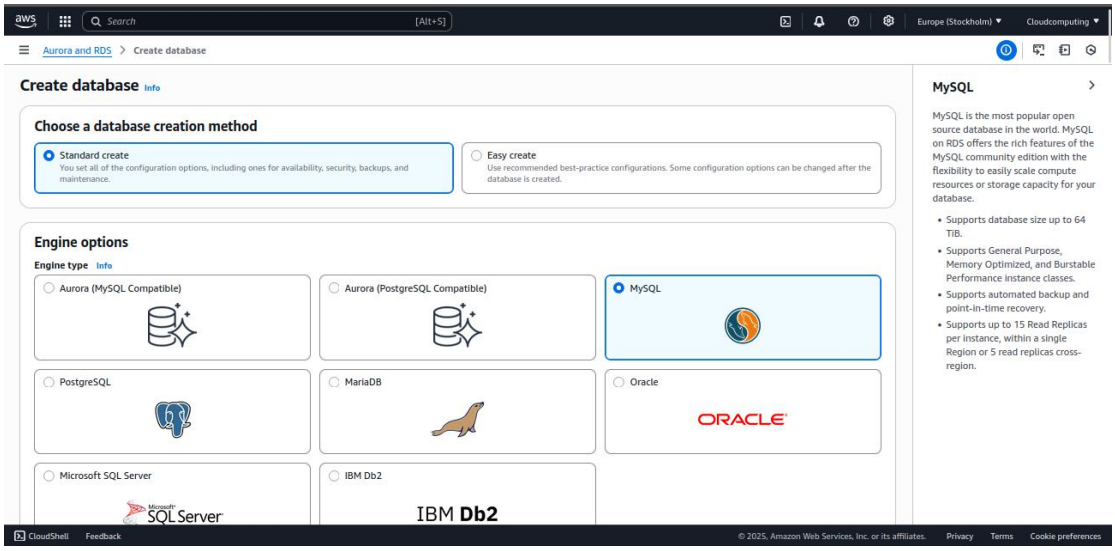
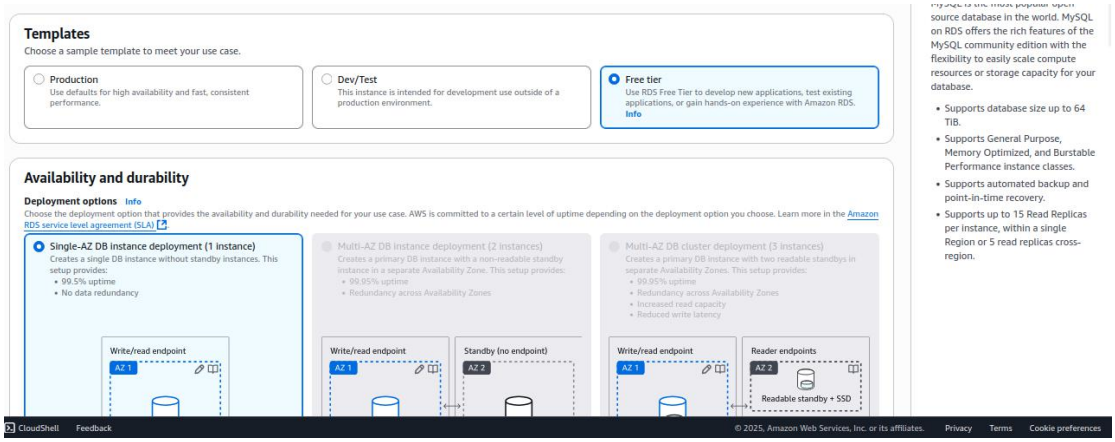
Mini Project: Simple programming(java, python, javascript) choosing using Ec2+RDs by using PHP.

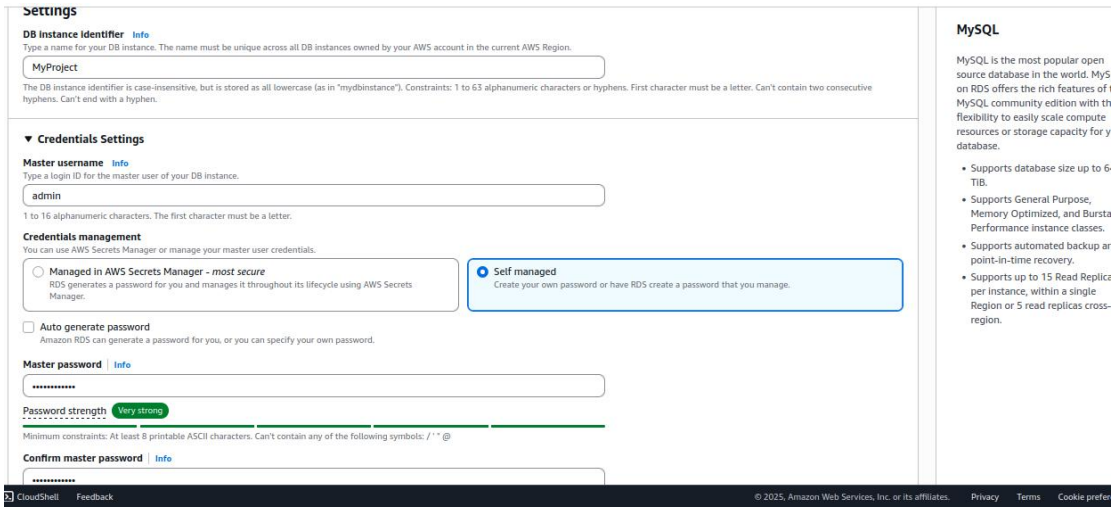
Commands:

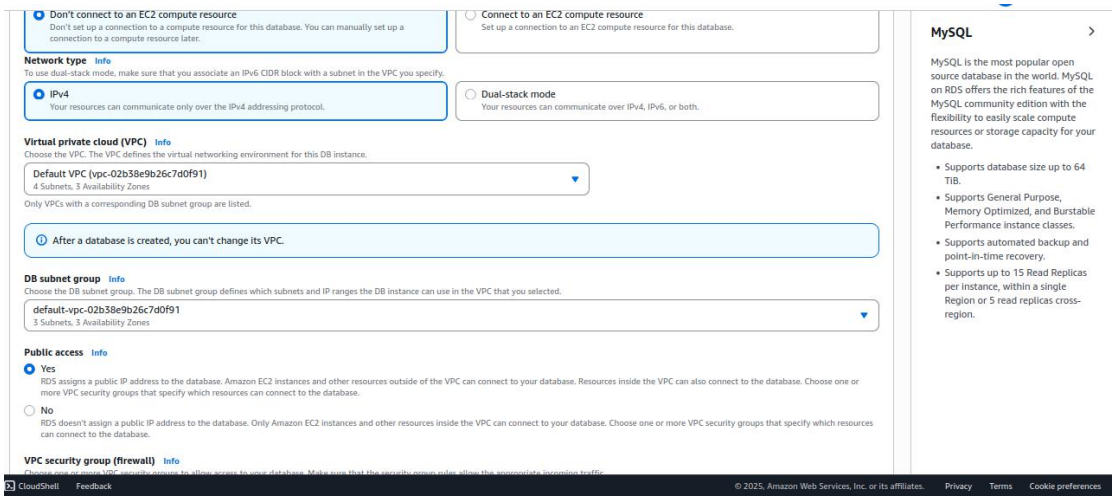
```
sudo yum update -y
sudo yum install -y httpd php php-mysqlnd

sudo systemctl start httpd
sudo systemctl enable httpd

sudo nano /var/www/html/index.php
      <form method="post" action="vote.php">
      <label>Vote for your favorite language:</label><br>
      <input type="radio" name="language" value="Java"> Java<br>
      <input type="radio" name="language" value="Python"> Python<br>
      <input type="radio" name="language" value="JavaScript"> JavaScript<br>
      <input type="submit" value="Vote">
      </form>


sudo nano /var/www/html/vote.php
      <?php
      $conn = new mysqli("myproject.chuq00gykfyu.eu-north-1.rds.amazonaws.com", "admin",
"pwd", "myproject");
      $lang = $_POST['language'];
      $sql = "INSERT INTO votes (language) VALUES ('$lang')";
      $conn->query($sql);
      echo "Thank you for voting!";
      $conn->close();


sudo yum update -y
sudo yum install -y wget
wget https://dev.mysql.com/get/mysql80-community-release-el7-5.noarch.rpm
sudo rpm -Uvh mysql80-community-release-el7-5.noarch.rpm

sudo yum clean all
sudo yum makecache

sudo yum install -y mysql-community-server

sudo yum-config-manager --disable mysql80-community
sudo yum-config-manager --enable mysql57-community
sudo yum install -y mysql-community-server

sudo systemctl start mysqld
sudo systemctl enable mysqld

mysql -h myproject.chuq00gykfyu.eu-north-1.rds.amazonaws.com -P 3306 -u admin -p
Password:

CREATE DATABASE myproject;
use myproject;
CREATE TABLE votes (
  id INT AUTO_INCREMENT PRIMARY KEY,
  language VARCHAR(255),
  vote_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
After testing this and run the below command:
SELECT * FROM votes;
```

Screenshots:








Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.
Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.
Network type Info
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.
IPv4
Your resources can communicate only over the IPv4 addressing protocol.
Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.
Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.
Default VPC (vpc-02b38e9b26c7d0f91)
4 Subnets, 3 Availability Zones
Only VPCs with a corresponding DB subnet group are listed.
After a database is created, you can't change its VPC.
DB subnet group Info
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.
default-vpc-02b38e9b26c7d0f91
3 Subnets, 3 Availability Zones
Public access Info
Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.
No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.
VPC security group (firewall) Info
MySQL
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.
Supports database size up to 64 TiB.
Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
Supports automated backup and point-in-time recovery.
Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.
CloudShell
Feedback
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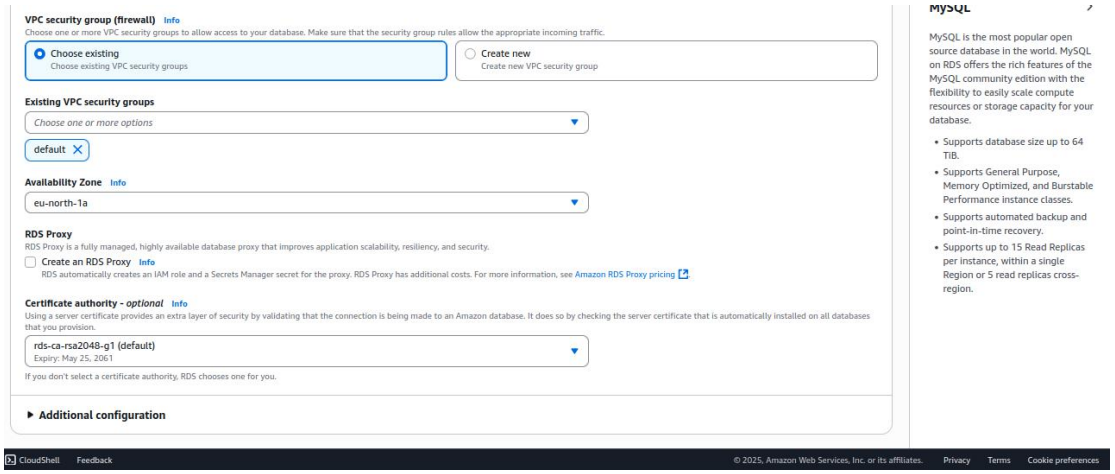
VPC security group (firewall) Info
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.
Choose existing
Choose existing VPC security groups
Create new
Create new VPC security group
Existing VPC security groups
Choose one or more options
default
Availability Zone Info
eu-north-1a
RDS Proxy
RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.
Create an RDS Proxy Info
RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see Amazon RDS Proxy pricing
Certificate authority - optional Info
Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.
rds-ca-rsa2048-g1 (default)
Expiry: May 25, 2061
If you don't select a certificate authority, RDS chooses one for you.
Additional configuration
MySQL
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.
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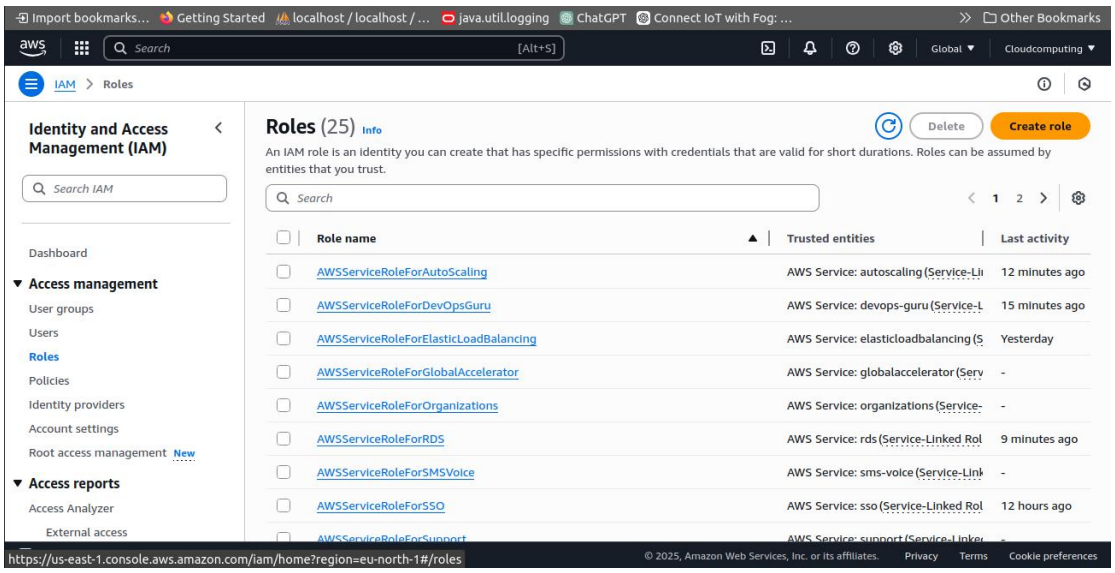
Import bookmarks...
Getting Started
localhost / localhost / ...
java.util.logging
ChatGPT
Connect IoT with Fog: ...
Other Bookmarks
aws
Search
[Alt+S]
Global
Cloudcomputing
IAM > Roles
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Roles (25) Info
Delete
Create role
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.
Search
1
2
Role name
Trusted entities
Last activity
AWSServiceRoleForAutoScaling
AWS Service: autoscaling (Service-Li
12 minutes ago
AWSServiceRoleForDevOpsGuru
AWS Service: devops-guru (Service-L
15 minutes ago
AWSServiceRoleForElasticLoadBalancing
AWS Service: elasticloadbalancing (S
Yesterday
AWSServiceRoleForGlobalAccelerator
AWS Service: globalaccelerator (Serv
-
AWSServiceRoleForOrganizations
AWS Service: organizations (Service-
-
AWSServiceRoleForRDS
AWS Service: rds (Service-Linked Rol
9 minutes ago
AWSServiceRoleForSMSVoice
AWS Service: sms-voice (Service-Link
-
AWSServiceRoleForSSO
AWS Service: sso (Service-Linked Rol
12 hours ago
https://us-east-1.console.aws.amazon.com/iam/home?region=eu-north-1#/roles
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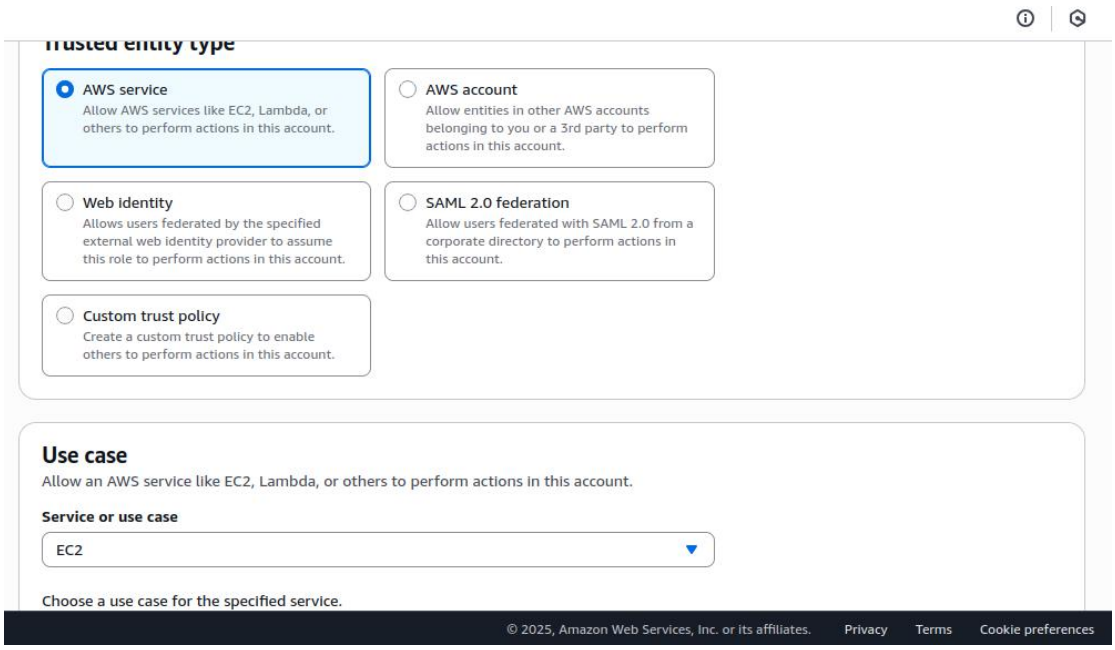
Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
EC2
Choose a use case for the specified service.
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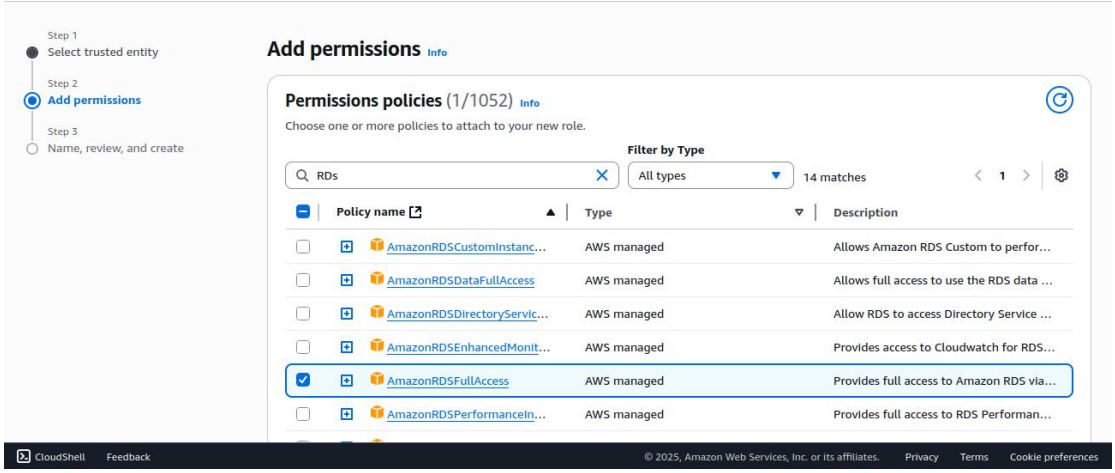
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions
Info
Permissions policies (1/1052)
Info
Choose one or more policies to attach to your new role.
Filter by Type
RDs
All types
14 matches
Policy name
Type
Description
AmazonRDSCustomInstanc...
AWS managed
Allows Amazon RDS Custom to perfor...
AmazonRDSDataFullAccess
AWS managed
Allows full access to use the RDS data ...
AmazonRDSDirectoryServic...
AWS managed
Allow RDS to access Directory Service ...
AmazonRDSEnhancedMonit...
AWS managed
Provides access to Cloudwatch for RDS...
AmazonRDSFullAccess
AWS managed
Provides full access to Amazon RDS via...
AmazonRDSPerformanceIn...
AWS managed
Provides full access to RDS Performan...
CloudShell
Feedback
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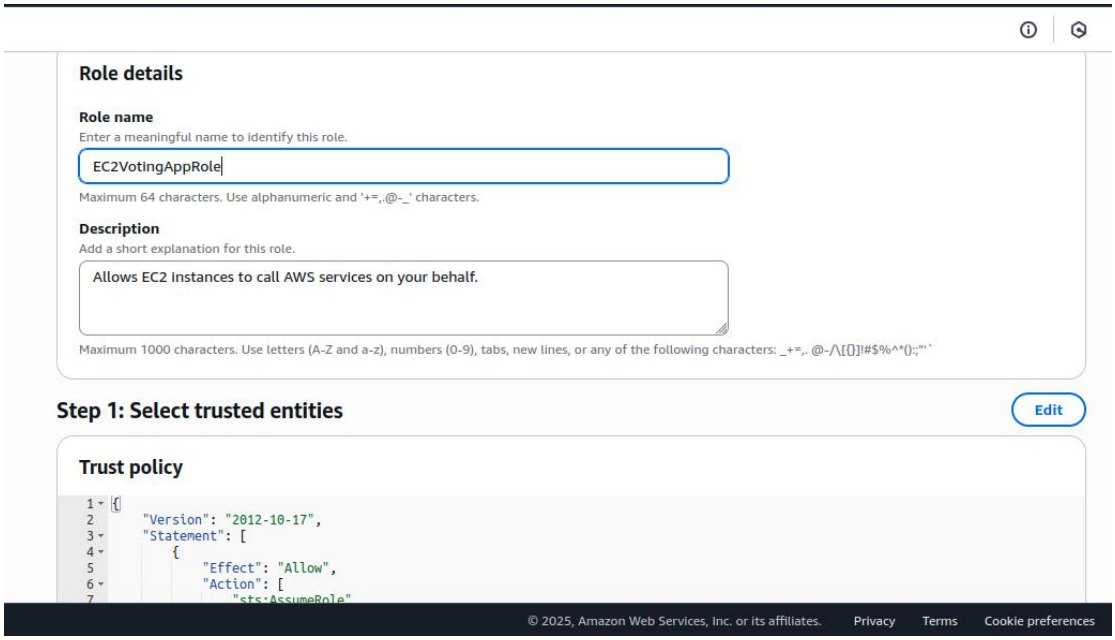
Role details
Role name
Enter a meaningful name to identify this role.
EC2VotingAppRole
Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.
Description
Add a short explanation for this role.
Allows EC2 instances to call AWS services on your behalf.
Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=,. @-/\[{}]!#$%^*();:"'`
Step 1: Select trusted entities
Edit
Trust policy
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": [
"sts:AssumeRole"
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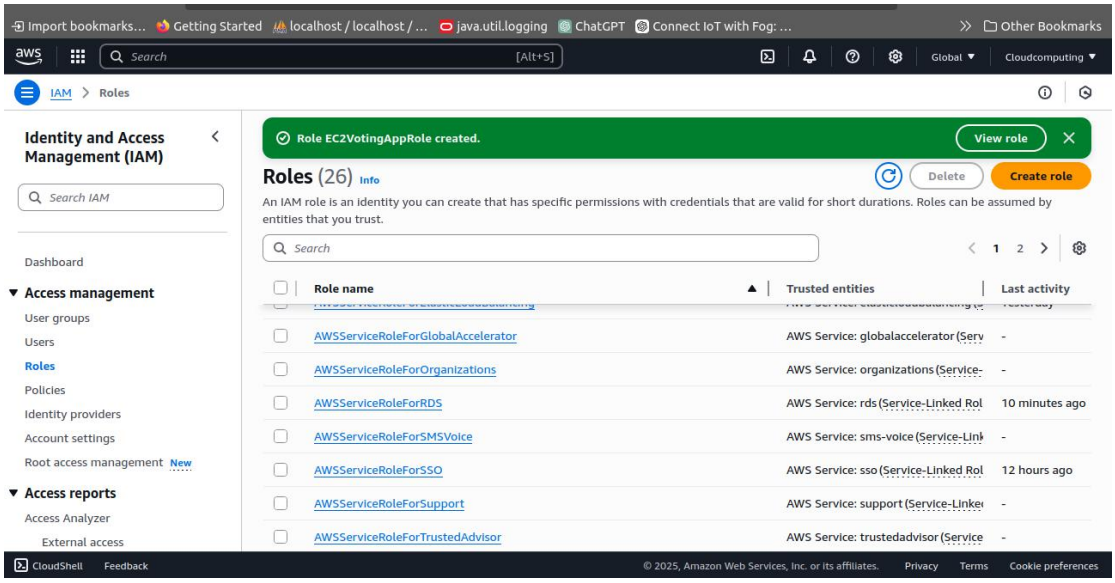
Import bookmarks... Getting Started localhost / localhost / ... java.util.logging ChatGPT Connect IoT with Fog: ... Other Bookmarks
Search [Alt+S]
Global Cloudcomputing
IAM > Roles
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Role EC2VotingAppRole created.
View role
Roles (26) Info
Delete
Create role
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.
Search
Role name
Trusted entities
Last activity
AWSServiceRoleForGlobalAccelerator
AWS Service: globalaccelerator (Serv
AWSServiceRoleForOrganizations
AWS Service: organizations (Service-
AWSServiceRoleForRDS
AWS Service: rds (Service-Linked Rol
10 minutes ago
AWSServiceRoleForSMSVoice
AWS Service: sms-voice (Service-Link
AWSServiceRoleForSSO
AWS Service: sso (Service-Linked Rol
12 hours ago
AWSServiceRoleForSupport
AWS Service: support (Service-Linke
AWSServiceRoleForTrustedAdvisor
AWS Service: trustedadvisor (Service
CloudShell Feedback
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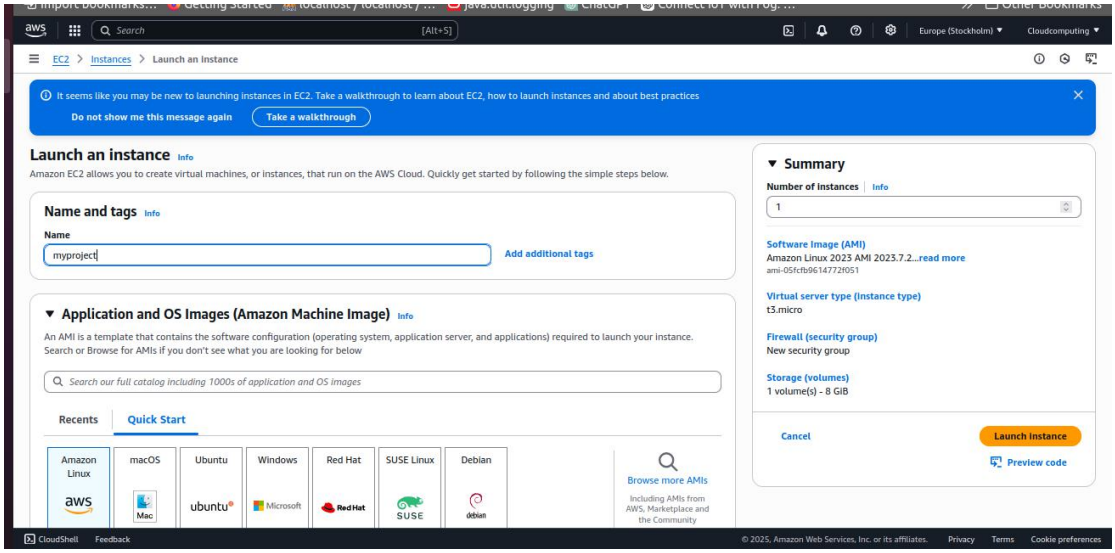
Search [Alt+S]
Europe (Stockholm) Cloudcomputing
EC2 > Instances > Launch an instance
It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices
Do not show me this message again
Take a walkthrough
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
myproject
Add additional tags
Application and OS Images (Amazon Machine Image) 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
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.7.2...read more
ami-05fcfb9614772f051
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
CloudShell Feedback
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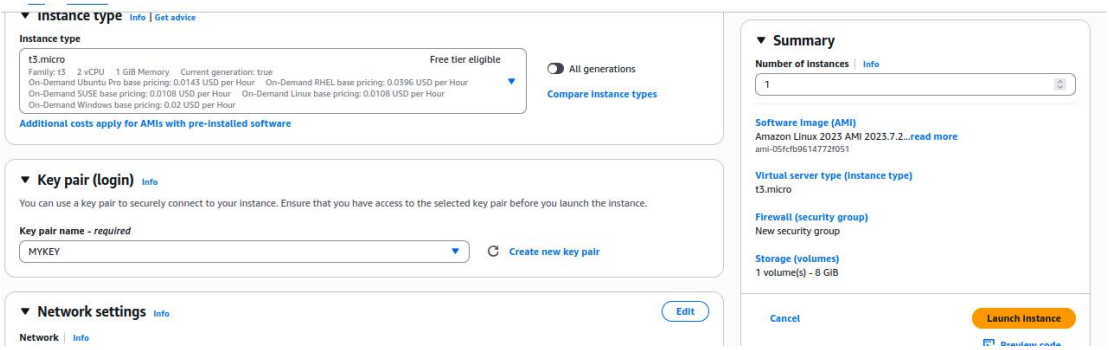
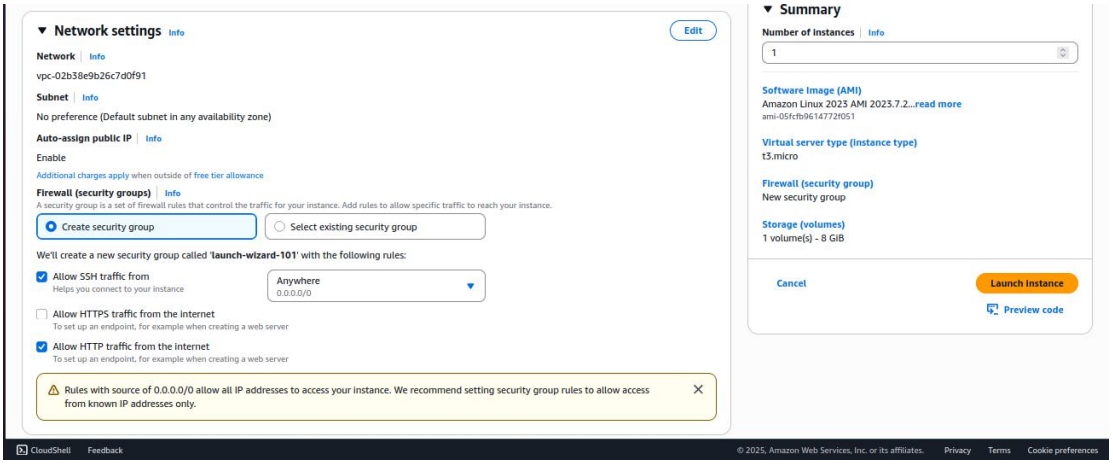

Instance type Info | Get advice
Instance type
t3.micro
Free tier eligible
Family: t3 2 vCPU 1 GiB Memory Current generation: true
On-Demand Ubuntu Pro base pricing: 0.0143 USD per Hour On-Demand RHEL base pricing: 0.0396 USD per Hour
On-Demand SUSE base pricing: 0.0108 USD per Hour On-Demand Linux base pricing: 0.0108 USD per Hour
On-Demand Windows base pricing: 0.02 USD per Hour
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software
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 - required
MYKEY
Create new key pair
Network settings Info
Edit
Network Info
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.7.2...read more
ami-05fcfb9614772f051
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance


Network settings Info
Edit
Network Info
vpc-02b38e9b26c7d0f91
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
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.
Create security group
Select existing security group
We'll create a new security group called 'launch-wizard-101' with the following rules:
Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0
Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server
Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Summary
Number of Instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.7.2...read more
ami-05fcfb9614772f051
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
CloudShell
Feedback
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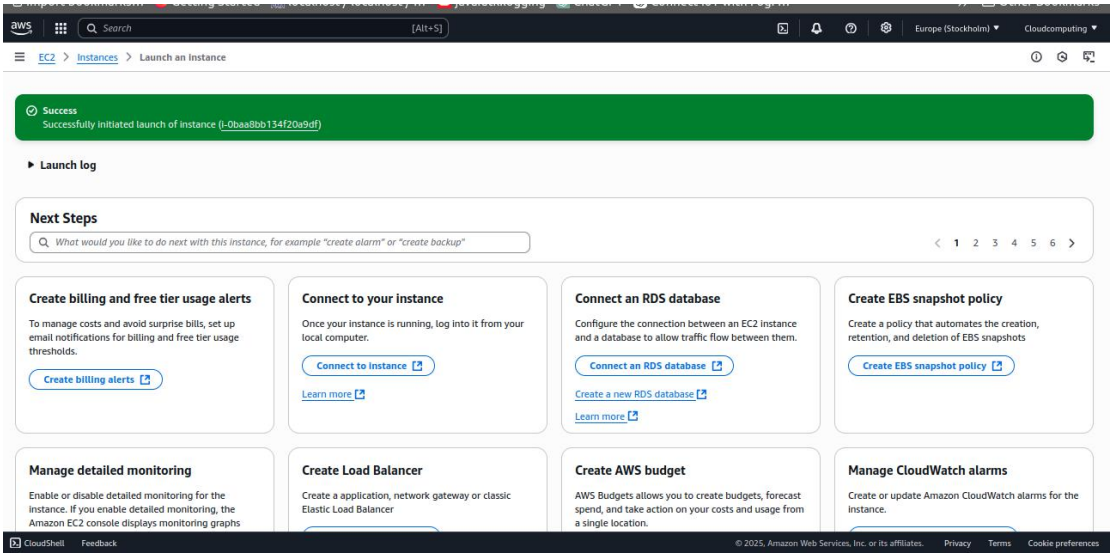
Search
[Alt+S]
Europe (Stockholm)
Cloudcomputing
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-0baa8bb134f20a9df)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy
Manage detailed monitoring
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs
Create Load Balancer
Create a application, network gateway or classic Elastic Load Balancer
Create AWS budget
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.
Manage CloudWatch alarms
Create or update Amazon CloudWatch alarms for the instance.
CloudShell
Feedback
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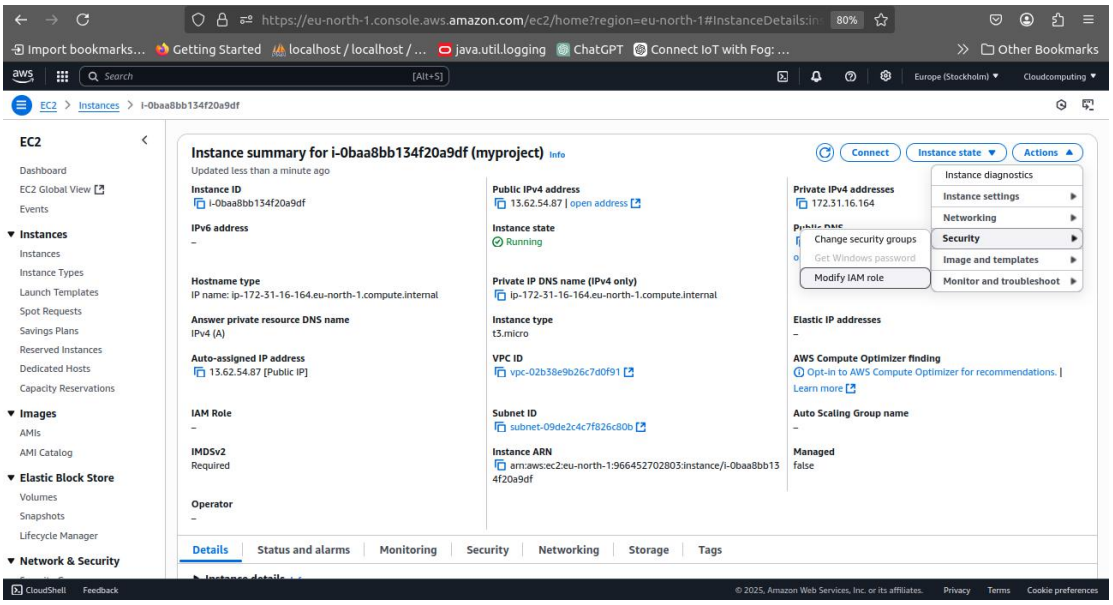
https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#InstanceDetails:in
80%
Import bookmarks...
Getting Started
localhost / localhost / ...
java.util.logging
ChatGPT
Connect IoT with Fog: ...
Other Bookmarks
Search
[Alt+S]
Europe (Stockholm)
Cloudcomputing
EC2 > Instances > i-0baa8bb134f20a9df
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Instance summary for i-0baa8bb134f20a9df (myproject) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance diagnostics
Instance settings
Networking
Security
Image and templates
Monitor and troubleshoot
Change security groups
Get Windows password
Modify IAM role
Instance ID
i-0baa8bb134f20a9df
IPv6 address
–
Hostname type
IP name: ip-172-31-16-164.eu-north-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
13.62.54.87 [Public IP]
IAM Role
–
IMDSv2
Required
Operator
–
Public IPv4 address
13.62.54.87 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-16-164.eu-north-1.compute.internal
Instance type
t3.micro
VPC ID
vpc-02b38e9b26c7d0f91
Subnet ID
subnet-09de2c4c7f826c80b
Instance ARN
arn:aws:ec2:eu-north-1:966452702803:instance/i-0baa8bb134f20a9df
Private IPv4 addresses
172.31.16.164
Elastic IP addresses
–
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
Learn more
Auto Scaling Group name
–
Managed
false
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
CloudShell
Feedback
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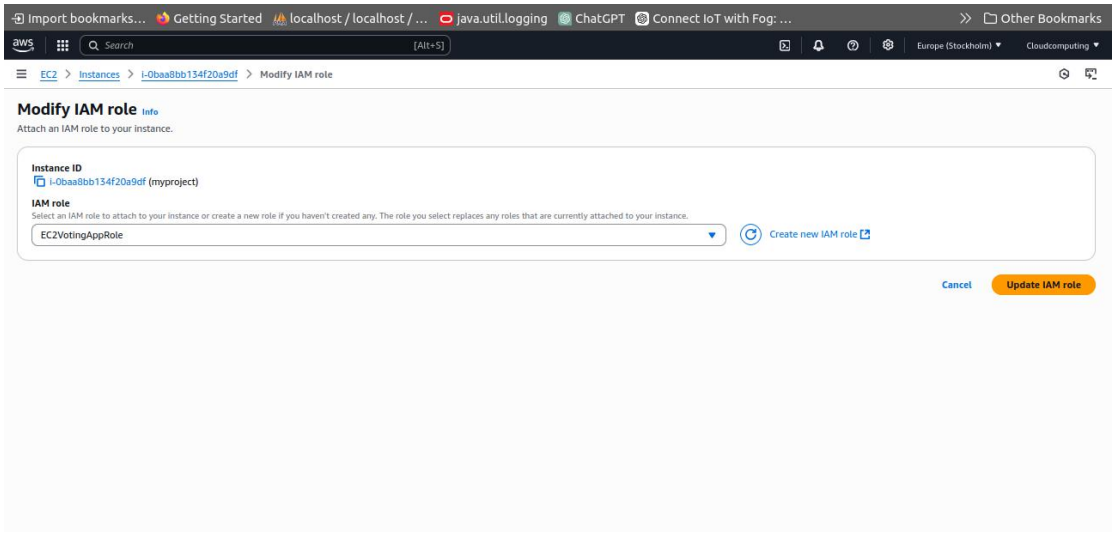
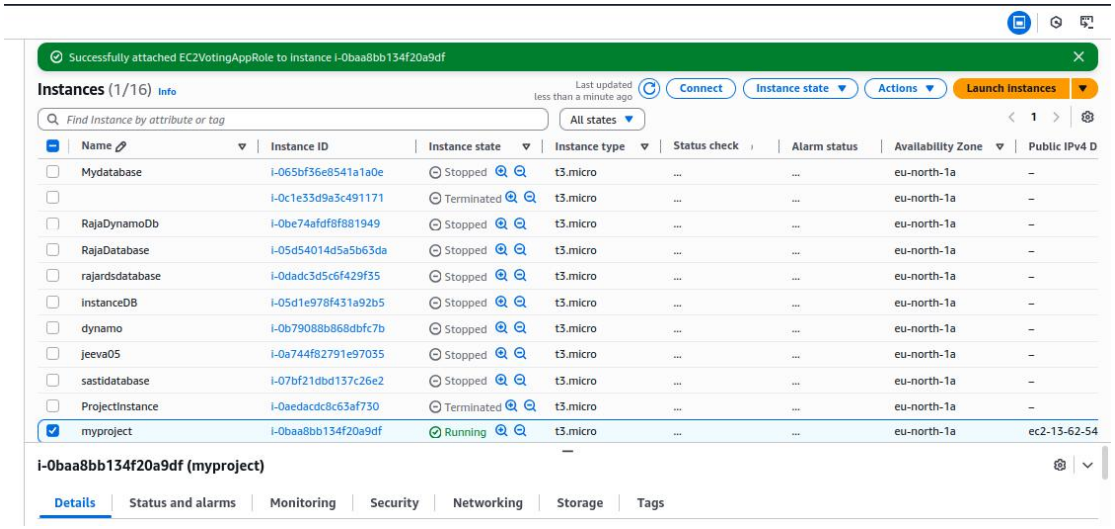
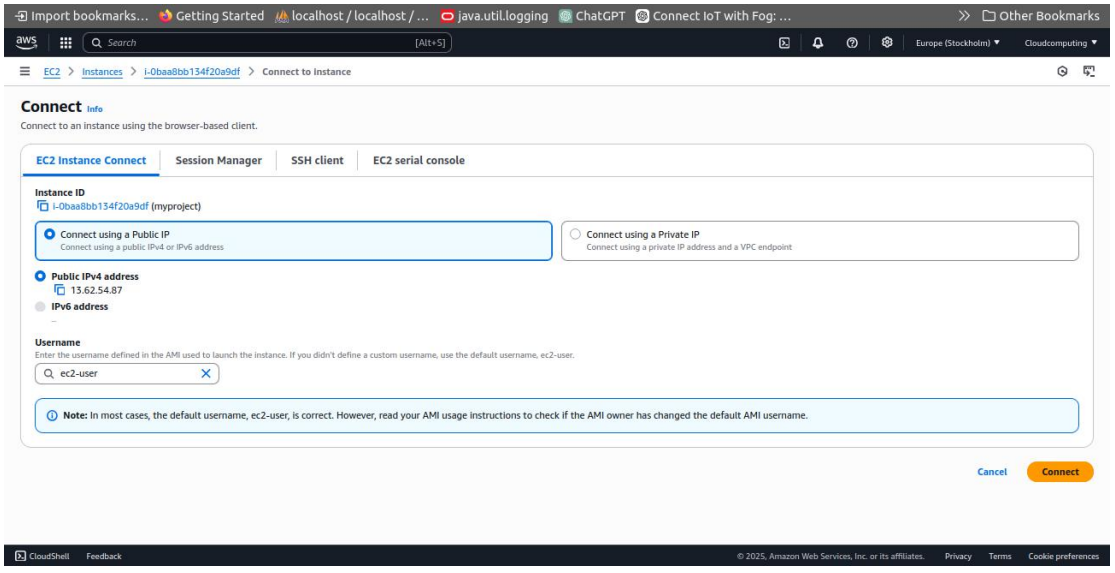

Import bookmarks... Getting Started localhost / localhost / ... java.util.logging ChatGPT Connect IoT with Fog: ... Other Bookmarks
Search [Alt+S]
Europe (Stockholm) Cloudcomputing
EC2 > Instances > i-0baa8bb134f20a9df > Modify IAM role
Modify IAM role Info
Attach an IAM role to your instance.
Instance ID
i-0baa8bb134f20a9df (myproject)
IAM role
Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.
EC2VotingAppRole
Create new IAM role
Cancel
Update IAM role


Successfully attached EC2VotingAppRole to instance i-0baa8bb134f20a9df
Instances (1/16) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 D
Mydatabase i-065bf36e8541a1a0e Stopped t3.micro ... ... eu-north-1a –
i-0c1e33d9a3c491171 Terminated t3.micro ... ... eu-north-1a –
RajaDynamoDb i-0be74afdf8f881949 Stopped t3.micro ... ... eu-north-1a –
RajaDatabase i-05d54014d5a5b63da Stopped t3.micro ... ... eu-north-1a –
rajardsdatabase i-0dadc3d5c6f429f35 Stopped t3.micro ... ... eu-north-1a –
instanceDB i-05d1e978f431a92b5 Stopped t3.micro ... ... eu-north-1a –
dynamo i-0b79088b868dbfc7b Stopped t3.micro ... ... eu-north-1a –
jeeva05 i-0a744f82791e97035 Stopped t3.micro ... ... eu-north-1a –
sastidatabase i-07bf21dbd137c26e2 Stopped t3.micro ... ... eu-north-1a –
ProjectInstance i-0aedacdc8c63af730 Terminated t3.micro ... ... eu-north-1a –
myproject i-0baa8bb134f20a9df Running t3.micro eu-north-1a ec2-13-62-54
i-0baa8bb134f20a9df (myproject)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags


Import bookmarks... Getting Started localhost / localhost / ... java.util.logging ChatGPT Connect IoT with Fog: ... Other Bookmarks
Search [Alt+S]
Europe (Stockholm) Cloudcomputing
EC2 > Instances > i-0baa8bb134f20a9df > Connect to instance
Connect Info
Connect to an instance using the browser-based client.
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0baa8bb134f20a9df (myproject)
Connect using a Public IP
Connect using a public IPv4 or IPv6 address
Connect using a Private IP
Connect using a private IP address and a VPC endpoint
Public IPv4 address
13.62.54.87
IPv6 address
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.
ec2-user
Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
Connect
CloudShell
Feedback
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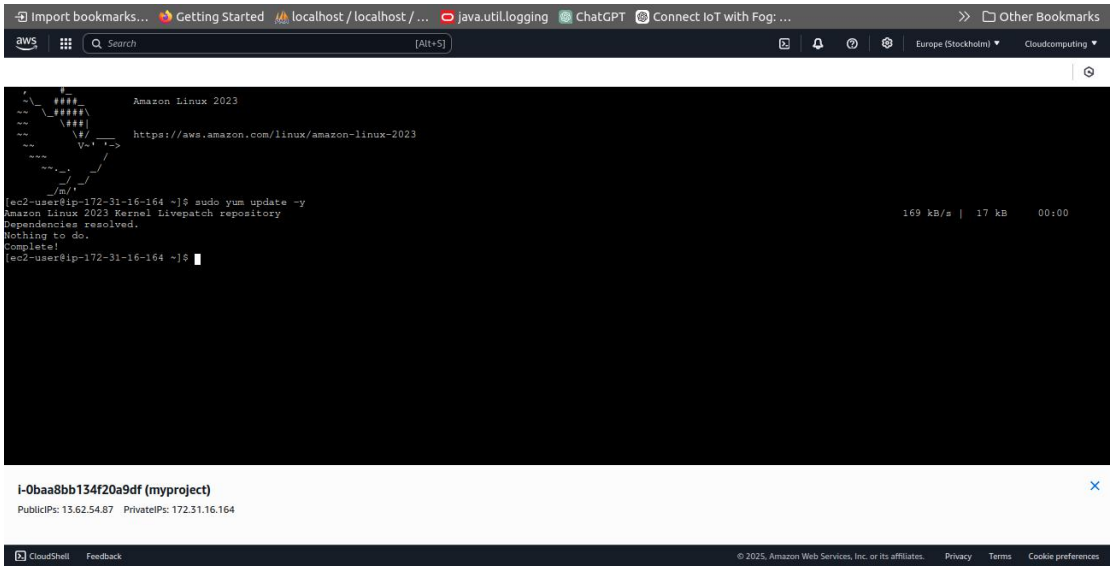
Import bookmarks... Getting Started localhost / localhost / ... java.util.logging ChatGPT Connect IoT with Fog: ... Other Bookmarks
aws Search [Alt+S] Europe (Stockholm) Cloudcomputing
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-16-164 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository 169 kB/s | 17 kB 00:00
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-16-164 ~]$
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
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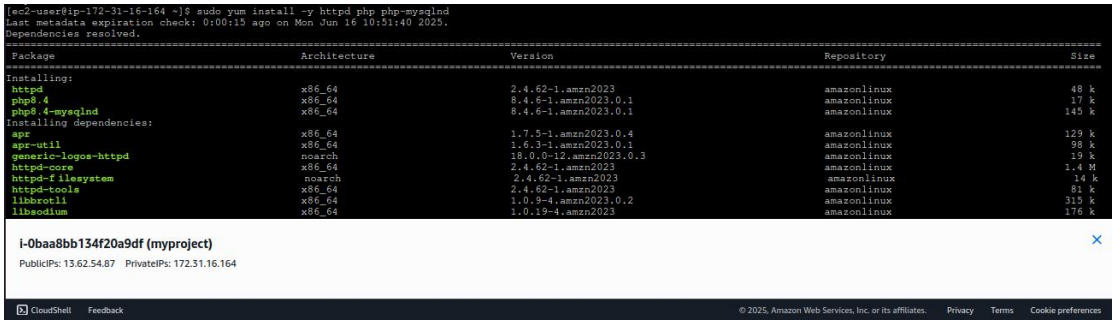
[ec2-user@ip-172-31-16-164 ~]$ sudo yum install -y httpd php php-mysqlnd
Last metadata expiration check: 0:00:15 ago on Mon Jun 16 10:51:40 2025.
Dependencies resolved.
Package Architecture Version Repository Size
Installing:
httpd x86_64 2.4.62-1.amzn2023 amazonlinux 48 k
php8.4 x86_64 8.4.6-1.amzn2023.0.1 amazonlinux 17 k
php8.4-mysqlnd x86_64 8.4.6-1.amzn2023.0.1 amazonlinux 145 k
Installing dependencies:
apr x86_64 1.7.5-1.amzn2023.0.4 amazonlinux 129 k
apr-util x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 98 k
generic-logos-httpd noarch 18.0.0-12.amzn2023.0.3 amazonlinux 19 k
httpd-core x86_64 2.4.62-1.amzn2023 amazonlinux 1.4 M
httpd-filesystem noarch 2.4.62-1.amzn2023 amazonlinux 14 k
httpd-tools x86_64 2.4.62-1.amzn2023 amazonlinux 81 k
libbrotli x86_64 1.0.9-4.amzn2023.0.2 amazonlinux 315 k
libsodium x86_64 1.0.19-4.amzn2023 amazonlinux 176 k
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
CloudShell Feedback
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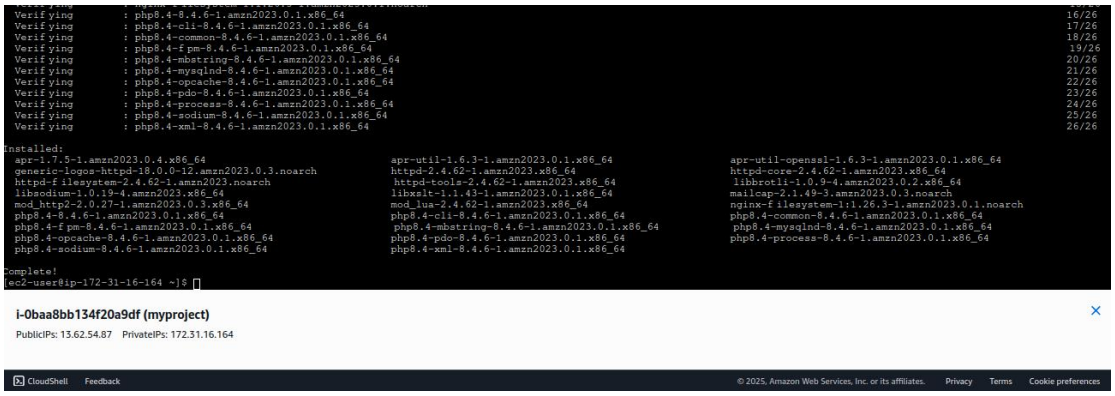
Verifying : php8.4-8.4.6-1.amzn2023.0.1.x86_64 16/26
Verifying : php8.4-cli-8.4.6-1.amzn2023.0.1.x86_64 17/26
Verifying : php8.4-common-8.4.6-1.amzn2023.0.1.x86_64 18/26
Verifying : php8.4-fpm-8.4.6-1.amzn2023.0.1.x86_64 19/26
Verifying : php8.4-mbstring-8.4.6-1.amzn2023.0.1.x86_64 20/26
Verifying : php8.4-mysqlnd-8.4.6-1.amzn2023.0.1.x86_64 21/26
Verifying : php8.4-opcache-8.4.6-1.amzn2023.0.1.x86_64 22/26
Verifying : php8.4-pdo-8.4.6-1.amzn2023.0.1.x86_64 23/26
Verifying : php8.4-process-8.4.6-1.amzn2023.0.1.x86_64 24/26
Verifying : php8.4-sodium-8.4.6-1.amzn2023.0.1.x86_64 25/26
Verifying : php8.4-xml-8.4.6-1.amzn2023.0.1.x86_64 26/26
Installed:
apr-1.7.5-1.amzn2023.0.4.x86_64
apr-util-1.6.3-1.amzn2023.0.1.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.62-1.amzn2023.x86_64
httpd-core-2.4.62-1.amzn2023.x86_64
httpd-filesystem-2.4.62-1.amzn2023.noarch
httpd-tools-2.4.62-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
libsodium-1.0.19-4.amzn2023.x86_64
libxslt-1.1.43-1.amzn2023.0.1.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.27-1.amzn2023.0.3.x86_64
mod_lua-2.4.62-1.amzn2023.x86_64
nginx-filesystem-1:1.26.3-1.amzn2023.0.1.noarch
php8.4-8.4.6-1.amzn2023.0.1.x86_64
php8.4-cli-8.4.6-1.amzn2023.0.1.x86_64
php8.4-common-8.4.6-1.amzn2023.0.1.x86_64
php8.4-fpm-8.4.6-1.amzn2023.0.1.x86_64
php8.4-mbstring-8.4.6-1.amzn2023.0.1.x86_64
php8.4-mysqlnd-8.4.6-1.amzn2023.0.1.x86_64
php8.4-opcache-8.4.6-1.amzn2023.0.1.x86_64
php8.4-pdo-8.4.6-1.amzn2023.0.1.x86_64
php8.4-process-8.4.6-1.amzn2023.0.1.x86_64
php8.4-sodium-8.4.6-1.amzn2023.0.1.x86_64
php8.4-xml-8.4.6-1.amzn2023.0.1.x86_64
Complete!
[ec2-user@ip-172-31-16-164 ~]$
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
CloudShell Feedback
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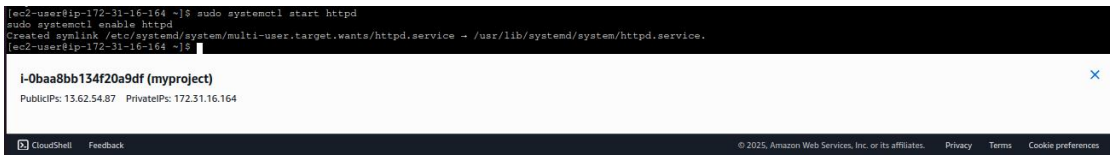
[ec2-user@ip-172-31-16-164 ~]$ sudo systemctl start httpd
sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-16-164 ~]$
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
CloudShell Feedback
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[ec2-user@ip-172-31-16-164 ~]$ sudo nano /var/www/html/index.php
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
CloudShell Feedback
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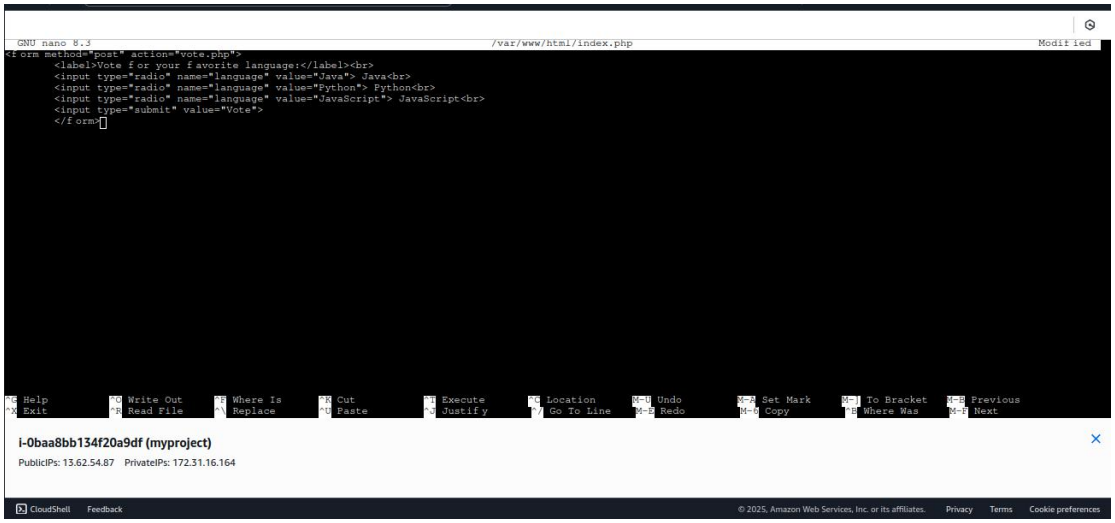
GNU nano 8.3 /var/www/html/index.php Modified
<form method="post" action="vote.php">
<label>Vote for your favorite language:</label>
<input type="radio" name="language" value="Java"> Java
<input type="radio" name="language" value="Python"> Python
<input type="radio" name="language" value="JavaScript"> JavaScript
<input type="submit" value="Vote">
</form>
^G Help ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^B Where Was M-W Next
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
CloudShell Feedback
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[ec2-user@ip-172-31-16-164 ~]$ sudo nano /var/www/html/vote.php
i-0baa8bb134f20a9df (myproject)
PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164
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Import bookmarks... Getting Started localhost / localhost / ... java.util.logging ChatGPT Connect IoT with Fog: ... Other Bookmarks
aws Search [Alt+S] Europe (Stockholm) Cloudcomputing
GNU nano 8.3 /var/www/html/vote.php Modified
<?php
$conn = new mysqli("myproject.chuq00gykfyu.eu-north-1.rds.amazonaws.com", "admin", "Rajaguru2306", "myproject");
$lang = $_POST['language'];
$sql = "INSERT INTO votes (language) VALUES ('$lang')";
$conn->query($sql);
echo "Thank you for voting!";
$conn->close();
^G Help ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^B Where Was M-W Next
i-0baa8bb134f20a9df (myproject)


[ec2-user@ip-172-31-16-164 ~]$ sudo yum update -y
sudo yum install -y wget
wget https://dev.mysql.com/get/mysql80-community-release-el7-5.noarch.rpm
sudo rpm -Uvh mysql80-community-release-el7-5.noarch.rpm
sudo yum clean all
sudo yum makecache
sudo yum install -y mysql-community-server
sudo yum-config-manager --disable mysql80-community
sudo yum-config-manager --enable mysql57-community
sudo yum install -y mysql-community-server
sudo systemctl start mysqld
sudo systemctl enable mysqld
i-0baa8bb134f20a9df (myproject)
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```
Running transaction
  Preparing        :                                                                                                    1/1
  Installing       : mysql-community-common-5.7.44-1.el7.x86_64                                                         1/6
  Installing       : mysql-community-libs-5.7.44-1.el7.x86_64                                                           2/6
  Running scriptlet: mysql-community-libs-5.7.44-1.el7.x86_64                                                           2/6
  Installing       : ncurses-compat-libs-6.2-4.20200222.amzn2023.0.6.x86_64                                             3/6
  Installing       : mysql-community-client-5.7.44-1.el7.x86_64                                                         4/6
  Installing       : libxcrypt-compat-4.4.33-7.amzn2023.x86_64                                                          5/6
  Running scriptlet: mysql-community-server-5.7.44-1.el7.x86_64                                                         6/6
  Installing       : mysql-community-server-5.7.44-1.el7.x86_64                                                         6/6
  Running scriptlet: mysql-community-server-5.7.44-1.el7.x86_64                                                         6/6
/usr/lib/tmpfiles.d/mysql.conf:23: Line references path below legacy directory /var/run/, updating /var/run/mysqld → /run/mysqld; please update the tmpfiles.d/ drop-in file acc
ordingly.

  Verifying        : libxcrypt-compat-4.4.33-7.amzn2023.x86_64                                                          1/6
  Verifying        : ncurses-compat-libs-6.2-4.20200222.amzn2023.0.6.x86_64                                             2/6
  Verifying        : mysql-community-client-5.7.44-1.el7.x86_64                                                         3/6
  Verifying        : mysql-community-common-5.7.44-1.el7.x86_64                                                         4/6
  Verifying        : mysql-community-libs-5.7.44-1.el7.x86_64                                                           5/6
  Verifying        : mysql-community-server-5.7.44-1.el7.x86_64                                                         6/6

Installed:
  libxcrypt-compat-4.4.33-7.amzn2023.x86_64          mysql-community-client-5.7.44-1.el7.x86_64          mysql-community-common-5.7.44-1.el7.x86_64
  mysql-community-libs-5.7.44-1.el7.x86_64           mysql-community-server-5.7.44-1.el7.x86_64          ncurses-compat-libs-6.2-4.20200222.amzn2023.0.6.x86_64

Complete!
[ec2-user@ip-172-31-16-164 ~]$
```

i-0baa8bb134f20a9df (myproject)

PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164

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```
[ec2-user@ip-172-31-16-164 ~]$ mysql -h myproject.chuq00gykfyu.eu-north-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 26
Server version: 8.0.41 Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

i-0baa8bb134f20a9df (myproject)

PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164

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```
mysql> CREATE DATABASE myproject;
Query OK, 1 row affected (0.00 sec)

mysql>
```

i-0baa8bb134f20a9df (myproject)

PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164

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```
mysql> use myproject;
Database changed
mysql>
```

i-0baa8bb134f20a9df (myproject)

PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164

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```
mysql> CREATE TABLE votes (
    ->   id INT AUTO_INCREMENT PRIMARY KEY,
    ->   language VARCHAR(255),
    ->   vote_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
```

i-0baa8bb134f20a9df (myproject)

PublicIPs: 13.62.54.87 PrivateIPs: 172.31.16.164

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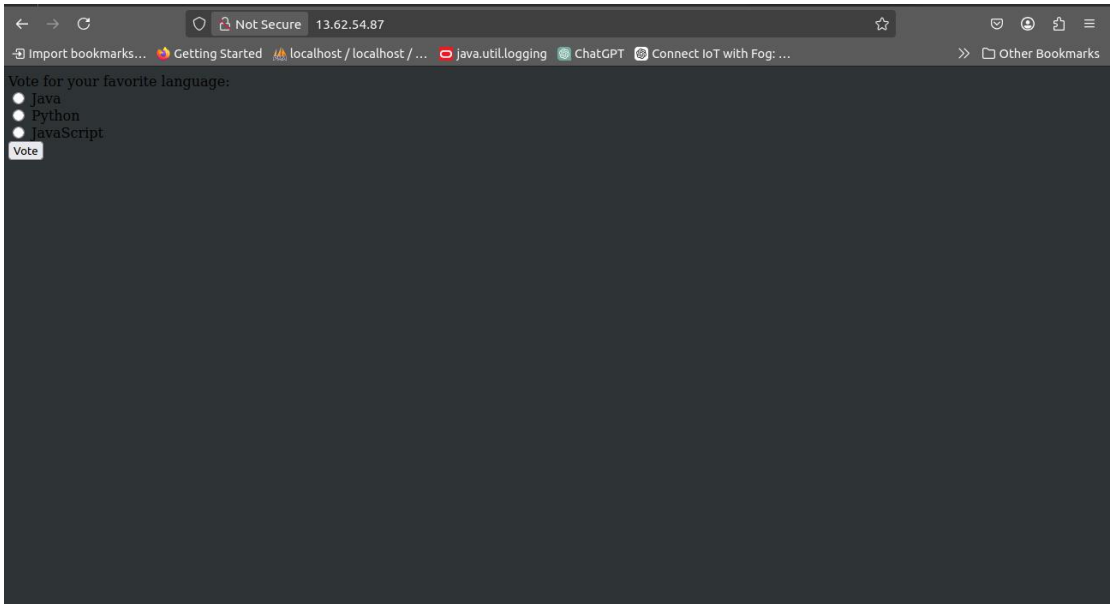
Instance summary for i-0baa8bb134f2

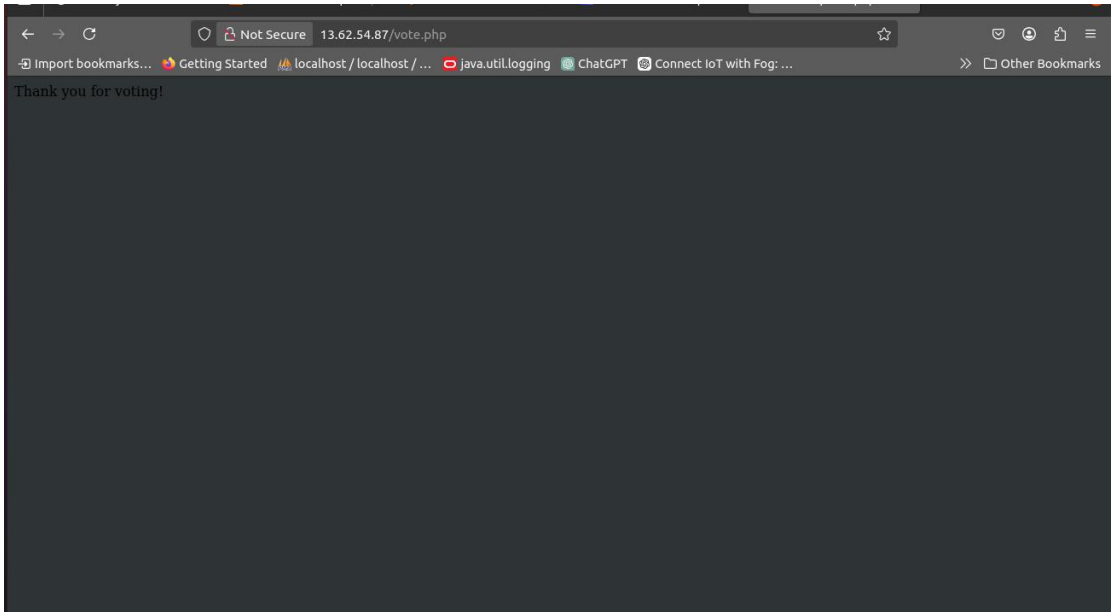
Public IPv4 address copied

Updated 6 minutes ago

Connect | Instance state | Actions

Instance ID i-0baa8bb134f20a9df	**Public IPv4 address** 13.62.54.87 | open address	**Private IPv4 addresses** 172.31.16.164
IPv6 address –	**Instance state** Running	**Public DNS** ec2-13-62-54-87.eu-north-1.compute.amazonaws.com | open address
Hostname type IP name: ip-172-31-16-164.eu-north-1.compute.internal	**Private IP DNS name (IPv4 only)** ip-172-31-16-164.eu-north-1.compute.internal	
Answer private resource DNS name IPv4 (A)	**Instance type** t3.micro	**Elastic IP addresses** –
Auto-assigned IP address 13.62.54.87 [Public IP]	**VPC ID** vpc-02b38e9b26c7d0f91	**AWS Compute Optimizer finding** Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role EC2VotingAppRole	**Subnet ID** subnet-09de2c4c7f826c80b	**Auto Scaling Group name** –
IMDSv2 Required	**Instance ARN** arn:aws:ec2:eu-north-1:966452702803:instance/i-0baa8bb134f20a9df	**Managed** false


Not Secure
13.62.54.87
Import bookmarks...
Getting Started
localhost / localhost / ...
java.util.logging
ChatGPT
Connect IoT with Fog: ...
Other Bookmarks
Vote for your favorite language:
Java
Python
JavaScript
Vote


Not Secure
13.62.54.87/vote.php
Import bookmarks...
Getting Started
localhost / localhost / ...
java.util.logging
ChatGPT
Connect IoT with Fog: ...
Other Bookmarks
Thank you for voting!


mysql> SELECT * FROM votes;
| id | language | vote_time |
| 1 | Java | 2025-06-16 10:57:37 |
1 row in set (0.00 sec)
mysql>
i-0baa8bb134f20a9df (myproject)
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