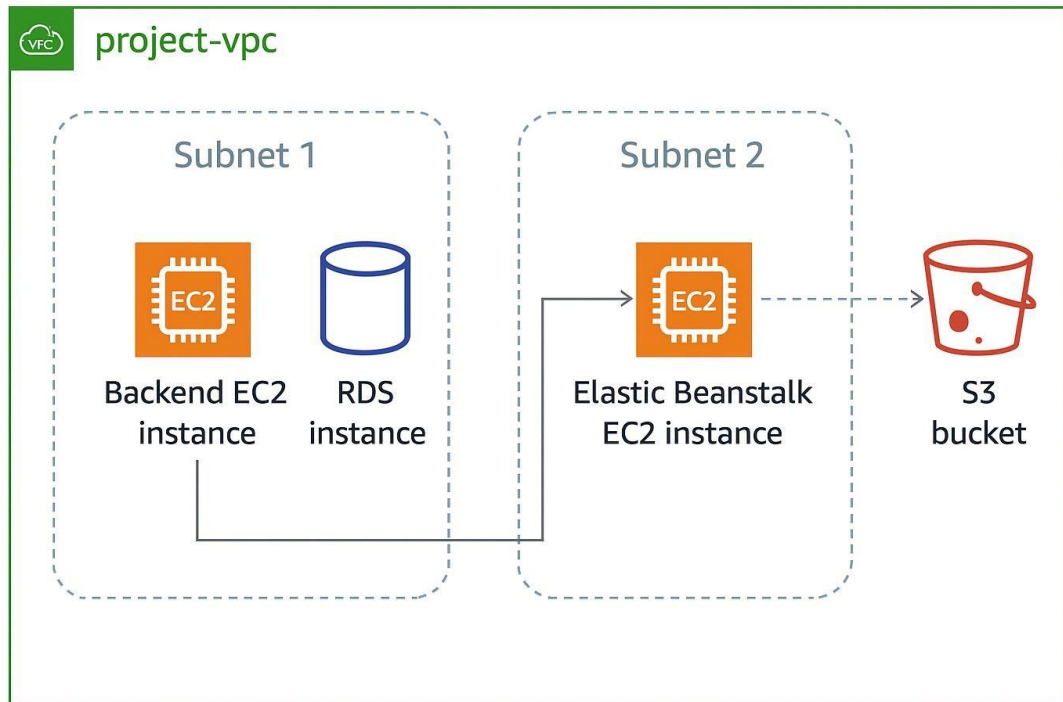


Cloud Computing Project

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AWS Deployment Architecture Diagram



AWS Deployments

The screenshot shows the AWS Management Console for the EC2 service. The main content area displays a list of instances under the heading 'Instances (2)'. The instances are:

Name	Instance ID	Instance state	Instance type
notes-app-bac...	i-08b1741f4eb3b9d23	Running	t2.micro
Notes-app-en...	i-0db6c60d27b57d070	Running	t2.micro

The left sidebar contains navigation links for EC2, including Dashboard, EC2 Global View, Events, and a list of instance types and templates. The top navigation bar shows the AWS logo, a search bar, and the user's name 'Hamza Uzair'.

=

The screenshot shows the AWS Management Console for the Aurora and RDS service. The main content area displays a list of databases under the heading 'Databases (2)'. The databases are:

DB identifier	Status	Role	Engine	Region	Size
contacts-db	Available	Instance	MySQL Co...	us-east-1b	db.t4g.micro
notes-app-db	Available	Instance	PostgreSQL	us-east-1f	db.t3.micro

The left sidebar contains navigation links for Aurora and RDS, including Dashboard, Databases, Query editor, Performance insights, and Snapshots. The top navigation bar shows the AWS logo, a search bar, and the user's name 'Hamza Uzair'.

us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/applications

Elastic Beanstalk > Applications

Applications (2) Info

Filter results matching the display value

Application name	Environments	Date created	Last modified	ARN
notes-app	-	May 12, 2025 06:12:4...	May 12, 2025 06:12:4...	arn:aws:elasticbea...
notes-app-env	Notes-app-env-env	May 12, 2025 07:24:1...	May 12, 2025 07:24:1...	arn:aws:elasticbea...

CloudShell Feedback

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us-east-1.console.aws.amazon.com/s3/home?region=us-east-1

Amazon S3

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. [Learn more](#)

General purpose buckets Directory buckets

General purpose buckets (3) info All AWS Regions

Buckets are containers for data. Press ALT to show or hide meeting controls

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
contacts-app-files-hamza	US East (N. Virginia) us-east-1	View analyzer for us-east-1	May 11, 2025, 18:28:40 (UTC+05:00)
elasticbeanstalk-us-east-1-651706754798	US East (N. Virginia) us-east-1	View analyzer for us-east-1	May 12, 2025, 06:12:46 (UTC+05:00)
notes-app-images-bucket	US East (N. Virginia) us-east-1	View analyzer for us-east-1	May 12, 2025, 08:19:27 (UTC+05:00)

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IAM roles and policies

aws IAM > Roles > aws-elasticbeanstalk-ec2-role

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
 - Unused access
 - Analyzer settings
 - Unused access
 - Analyzer settings
 - Credential report
 - Organization activity
 - Service control policies

aws-elasticbeanstalk-ec2-role

Allows your environment's EC2 instances to perform operations required for your application.

[Delete](#)

Summary

[Edit](#)

Creation date
May 10, 2025, 21:04 (UTC+05:00)

ARN
[arn:aws:iam::149536481855:role/aws-elasticbeanstalk-ec2-role](#)

Instance profile ARN
[arn:aws:iam::149536481855:instance-profile/aws-elasticbeanstalk-ec2-role](#)

Last activity
9 minutes ago

Maximum session duration
1 hour

[Permissions](#) [Trust relationships](#) [Tags](#) [Last Accessed](#) [Revoke sessions](#)

Permissions policies (4)

You can attach up to 10 managed policies.

[Simulate](#) [Remove](#) [Add permissions](#)

Filter by Type: All types

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AWSElasticBeanstalkMulticontainerDocker	AWS managed	1
<input type="checkbox"/>	AWSElasticBeanstalkWebTier	AWS managed	1
<input type="checkbox"/>	AWSElasticBeanstalkWorkerTier	AWS managed	1
<input type="checkbox"/>	Image_access	Customer inline	0

Modify permissions in Image_access

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

Policy editor

[Visual](#) [JSON](#) [Actions](#)

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "Statement1",
6       "Effect": "Allow",
7       "Action": "s3:GetObject",
8       "Resource": "arn:aws:s3:::elasticbeanstalk-eu-north-1-149536481855/notes_image.jpg"
9     }
10  ]
11 }
```

Edit statement

Statement1

Add actions

Choose a service

aws IAM > Roles > Notes_Backend_IAMRole_EC2

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
 - Unused access
 - Analyzer settings
 - Unused access
 - Analyzer settings
 - Credential report

Notes_Backend_IAMRole_EC2

Allows EC2 instances to call AWS services on your behalf.

[Delete](#)

Summary

[Edit](#)

Creation date
May 11, 2025, 14:44 (UTC+05:00)

ARN
[arn:aws:iam::149536481855:role/Notes_Backend_IAMRole_EC2](#)

Instance profile ARN
[arn:aws:iam::149536481855:instance-profile/Notes_Backend_IAMRole_EC2](#)

Last activity
30 minutes ago

Maximum session duration
1 hour

[Permissions](#) [Trust relationships](#) [Tags](#) [Last Accessed](#) [Revoke sessions](#)

Permissions policies (1)

You can attach up to 10 managed policies.

[Simulate](#) [Remove](#) [Add permissions](#)

Filter by Type: All types

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	RDS_Access_Policy	Customer inline	0

Modify permissions in RDS_Access_Policy [Info](#)

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

Policy editor

Visual

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Sid": "Statement1",  
6       "Effect": "Allow",  
7       "Action": "rds-db:connect",  
8       "Resource": "arn:aws:rds-db:eu-north-1:149536481855:dbuser:db-MKIRH6APVMUTVG35JKVA0AIK5E/iam_user"  
9     }  
10  ]  
11 }
```

Security groups

The screenshot displays the AWS Management Console interface for a security group. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroup:groupId=sg-07db572f1d80fbaf0`. The console page title is "sg-07db572f1d80fbaf0 - default".

Details

Property	Value
Security group name	default
Security group ID	sg-07db572f1d80fbaf0
Description	default VPC security group
VPC ID	vpc-0fab12d650b87fa3b
Owner	651706754798
Inbound rules count	3 Permission entries
Outbound rules count	1 Permission entry

Inbound rules (3)

Name	Security group rule ID	IP version	Type	Protocol	Port range
-	sgr-0c17478201e4d021e	IPv4	PostgreSQL	TCP	5432
-	sgr-0506f83fd34fa996b	-	All traffic	All	All
-	sgr-0aa5b216ec4b885a4	IPv4	MYSQL/Aurora	TCP	3306

The bottom of the screenshot shows a Windows taskbar with the date and time as 5:07 PM on 5/14/2025.

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#SecurityGroup.groupId=sg-0c040231eff725279

Search

[Alt+S]

VPC > Security Groups > sg-0c040231eff725279 - awseb-e-ahvqvtsgg-stack-AWSEBSecurityGroup-RKKN1k60u1gl

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

NAT gateways

Peering connections

Route servers

sg-0c040231eff725279 - awseb-e-ahvqvtsgg-stack-AWSEBSecurityGroup-RKKN1k60u1gl

Actions

Details

Security group name

awseb-e-ahvqvtsgg-stack-AWSEBSecurityGroup-RKKN1k60u1gl

Owner

651706754798

Security group ID

sg-0c040231eff725279

Inbound rules count

2 Permission entries

Description

VPC Security Group

Outbound rules count

1 Permission entry

VPC ID

vpc-0fab12d650b87fa3b

Inbound rules

Outbound rules

Sharing - new

VPC associations - new

Tags

Inbound rules (2)

Manage tags

Edit inbound rules

Name

Security group rule ID

IP version

Type

Protocol

Port range

-

sgr-079d08abf6ad6bb63

IPv4

HTTP

TCP

80

-

sgr-03a1aa109441fc721

IPv4

SSH

TCP

22

Security

CloudShell

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Search

5:07 PM 5/14/2025