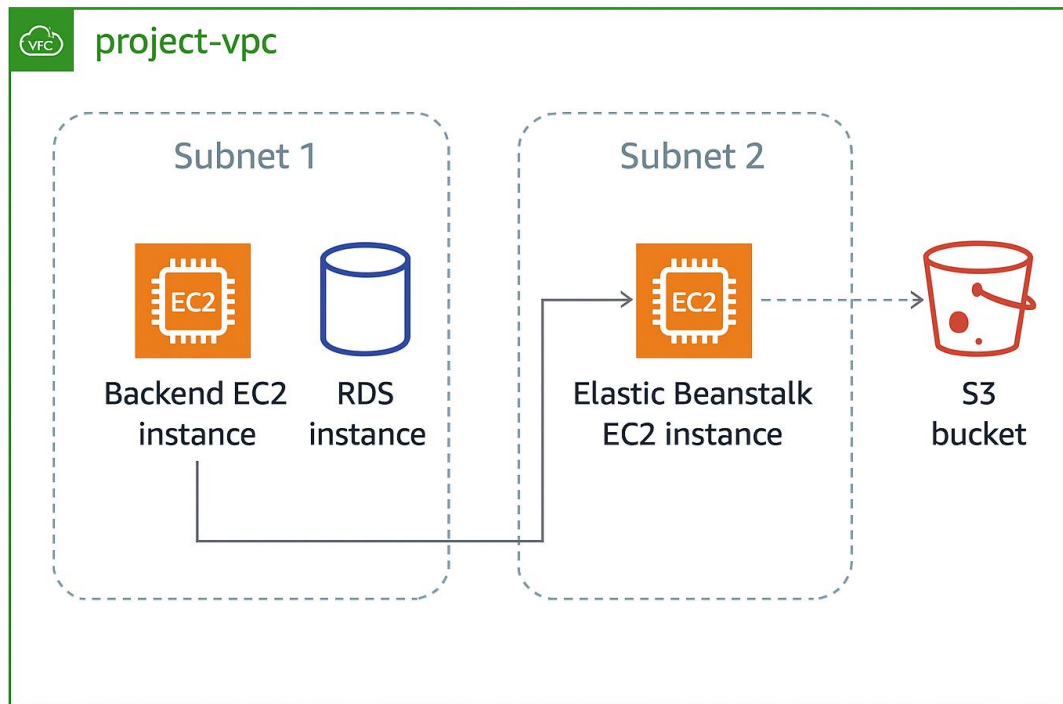


Cloud Computing Project

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AWS Deployment Architecture Diagram



AWS Deployments

The screenshot shows the AWS Management Console for the 'Instances' page. The left sidebar contains navigation links for EC2, including Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and AMI Catalog.

The main content area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Jahanzeb-Abdullah-backend	i-00de65fd505cc48bd	Running	t3.micro	3/3 checks passed	View alarms +	eu-north-1a
Jahanzeb-Abdullah-Notes-App-env-1	i-0db3a7430deb322bd	Running	t3.micro	3/3 checks passed	View alarms +	eu-north-1a

Aurora and RDS

Databases

Query editor

Performance insights

Snapshots

Exports in Amazon S3

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

Zero-ETL integrations

New

Consider creating a blue/green deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Notifications

0 0 0 0 4 0 0

Databases (1)

Group resources

Modify

Actions

Create database

Filter by databases

DB identifier	Status	Role	Engine	Region ...	Size	Recommendations
jahanzeb-abdullah-db	Available	Instance	PostgreSQL	eu-north-1a	db.t4g.micro	

Elastic Beanstalk

Applications

Environments

Change history

Recent environments

Jahanzeb-Abdullah-Notes-App-env-1

Jahanzeb-Abdullah-Notes-App-env

Applications (1)

Info

Actions

Create application

Filter results matching the display value

Application name	Environments	Date created	Last modified	ARN
Jahanzeb-Abdullah-Notes-A...	Jahanzeb-Abdullah-Notes-App-er	May 10, 2025 20:34:28 (UT...	May 10, 2025 20:34:28 (UT...	arn:aws:elasticbeanstal...

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Account snapshot - updated every 24 hours

All AWS Regions

View Storage Lens dashboard

General purpose buckets

Directory buckets

General purpose buckets (1)

Info

All AWS Regions

Copy ARN

Empty

Delete

Create bucket

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
elasticbeanstalk-eu-north-1-149536481855	Europe (Stockholm) eu-north-1	View analyzer for eu-north-1	May 10, 2025, 20:34:28 (UTC+05:00)

IAM roles and policies

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

Access reports

Roles

aws-elasticbeanstalk-ec2-role

Summary

Creation date

Last activity

ARN

Maximum session duration

Instance profile ARN

Permissions

Trust relationships

Tags

Last Accessed

Revoke sessions

Permissions policies (4)

Filter by Type

Policy name

Type

Attached entities

aws-elasticbeanstalk-ec2-role

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

Summary

Creation date

Last activity

ARN

Maximum session duration

Instance profile ARN

Permissions

Trust relationships

Tags

Last Accessed

Revoke sessions

Permissions policies (4)

Filter by Type

Policy name

Type

Attached entities

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

Filter services

Notes_Backend_IAMRole_EC2

Allows EC2 instances to call AWS services on your behalf.

Summary

Creation date

Last activity

ARN

Maximum session duration

Instance profile ARN

Permissions

Trust relationships

Tags

Last Accessed

Revoke sessions

Permissions policies (1)

Filter by Type

Policy name

Type

Attached entities

Notes_Backend_IAMRole_EC2

Allows EC2 instances to call AWS services on your behalf.

Summary

Creation date

Last activity

ARN

Maximum session duration

Instance profile ARN

Permissions

Trust relationships

Tags

Last Accessed

Revoke sessions

Permissions policies (1)

Filter by Type

Policy name

Type

Attached entities

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-MKIRH6APVMUTVG3SJKVAAQAIK5E/iam_user"
9     }
10  ]
11 }
```

Security groups

sg-0c68ed8768cb89715 - Jahanzeb-Abdullah-SG-EC2

[Actions](#)

Details

Security group name[Jahanzeb-Abdullah-SG-EC2](#)**Security group ID**[sg-0c68ed8768cb89715](#)**Description**[EC2 security group](#)**VPC ID**[vpc-0f941a5e490d4ef53](#)**Owner**[149536481855](#)**Inbound rules count**

3 Permission entries

Outbound rules count

1 Permission entry

[Inbound rules](#)[Outbound rules](#)[Sharing - new](#)[VPC associations - new](#)[Tags](#)

Inbound rules (3)

[Manage tags](#)[Edit inbound rules](#)

Security group rule ID	IP version	Type	Protocol	Port range	Source
sg-09723d45c56df67a1	-	PostgreSQL	TCP	5432	sg-01a4ab4d9d41f244c...
sg-0074786ed22432ef8	IPv4	SSH	TCP	22	0.0.0.0/0
sg-00c2bc4c9d2473038	IPv4	Custom TCP	TCP	5000	0.0.0.0/0

sg-01a4ab4d9d41f244c - Jahanzeb-Abdullah-SG-DB

[Actions](#)

Details

Security group name[Jahanzeb-Abdullah-SG-DB](#)**Security group ID**[sg-01a4ab4d9d41f244c](#)**Description**[Created by RDS management console](#)**VPC ID**[vpc-0f941a5e490d4ef53](#)**Owner**[149536481855](#)**Inbound rules count**

1 Permission entry

Outbound rules count

1 Permission entry

[Inbound rules](#)[Outbound rules](#)[Sharing - new](#)[VPC associations - new](#)[Tags](#)

Inbound rules (1)

[Manage tags](#)[Edit inbound rules](#)

Name	Security group rule ID	IP version	Type	Protocol	Port range
-	sg-09cb0645d7ae79c39	-	PostgreSQL	TCP	5432