Cloud Computing Project
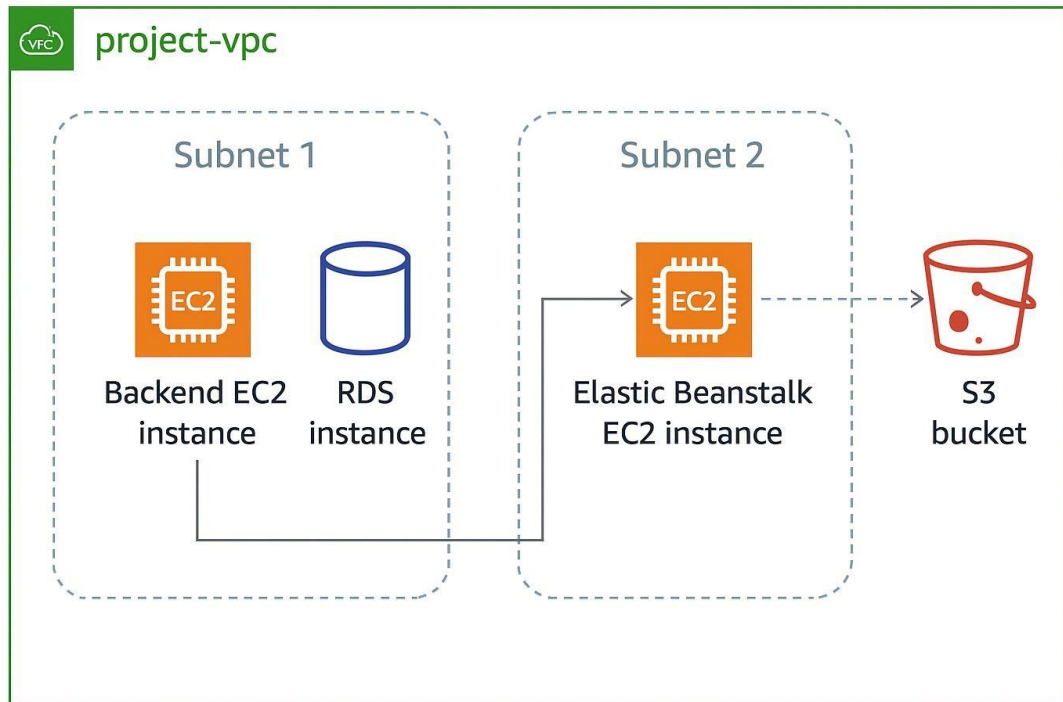
Hamza Uzair 21I-0491, Shuja abbas 21I-0808

AWS Deployment Architecture Diagram

AWS Deployments

IAM roles and policies

IAM > Roles > aws-elasticbeanstalk-ec2-role

Identity and Access Management (IAM)

Q 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 Info

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) Info

You can attach up to 10 managed policies.

Simulate ☑   Remove   **Add permissions ▼**

Q Search

Filter by Type
All types ▼

< 1 > ⚙

		Policy name ☑ ▲	Type ▽	Attached entities ▽
☐	⊞	🟧 AWSElasticBeanstalkMulticontainerDocker	AWS managed	1
☐	⊞	🟧 AWSElasticBeanstalkWebTier	AWS managed	1
☐	⊞	🟧 AWSElasticBeanstalkWorkerTier	AWS managed	1
☐	⊞	Image_access	Customer inline	0

Modify permissions in Image_access Info

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

Q Filter services

IAM > Roles > Notes_Backend_IAMRole_EC2

Identity and Access Management (IAM)

Q Search IAM

Dashboard

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User groups
Users
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Account settings
Root access management New

▼ **Access reports**
Access Analyzer
  External access
  Unused access
  Analyzer settings
Credential report

Notes_Backend_IAMRole_EC2 Info

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) Info

You can attach up to 10 managed policies.

Simulate ☑   Remove   **Add permissions ▼**

Q Search

Filter by Type
All types ▼

< 1 > ⚙

		Policy name ☑ ▲	Type ▽	Attached entities ▽
☐	⊞	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-MKIRH6APVMUTVG3SJKVAOAIK5E/iam_user"
9            }
10       ]
11 }
```

Security groups

aws

Search [Alt+S]

United States (N. Virginia) ▾ Hamza Uzair ▾

VPC > Security Groups > sg-0c040231eff725279 - awseb-e-ahvqvktsgg-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 New

▾ **Security**

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

Actions ▾

Details

Security group name	**Security group ID**	**Description**	**VPC ID**
awseb-e-ahvqvktsgg-stack-AWSEBSecurityGroup-RKKN1k60u1gl	sg-0c040231eff725279	VPC Security Group	vpc-0fab12d650b87fa3b
Owner	**Inbound rules count**	**Outbound rules count**	
651706754798	2 Permission entries	1 Permission entry	

Inbound rules | Outbound rules | Sharing - *new* | VPC associations - *new* | Tags

Inbound rules (2)

Manage tags | **Edit inbound rules**

Search

< 1 >

	Name ▽	Security group rule ID ▽	IP version ▽	Type ▽	Protocol ▽	Port range
☐	–	sgr-079d08abf6ad6bb63	IPv4	HTTP	TCP	80
☐	–	sgr-03a1aa109441fc721	IPv4	SSH	TCP	22

CloudShell | Feedback

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