

Project-2: Cross VPC RDS Migration

Objective:

To migrate a MySQL database from VPC-B to VPC-A using VPC Peering, secure networking, mysqldump backup/restore, and Slack webhook notification.

Architecture Overview:

- Source VPC-B (12.0.0.0/16) with RDS MySQL instance
- Target VPC-A (10.0.0.0/16) with new RDS MySQL instance
- VPC Peering enabled between VPC-A and VPC-B
- Route tables updated for cross-VPC communication
- Security groups configured to allow MySQL (3306) access

Database Migration Steps:

- Created VPC Peering between project2-vpc-a and project2-vpc-b
- Enabled DNS resolution for both VPCs
- Configured route tables to allow cross-VPC CIDR communication
- Created target RDS in VPC-A with private subnets
- Added inbound rules: 10.0.0.0/16 and 12.0.0.0/16 on port 3306
- Took backup using mysqldump from source RDS
- Created database on target RDS
- Restored backup into target RDS
- Verified data using SELECT queries
- Sent Slack notification using webhook after successful migration

Verification:

Verified that the 'users' table and records were successfully migrated to the target RDS instance.

Final Outcome:

Cross-VPC RDS migration completed successfully with secure networking and Slack notification integration.