Document Control

DOCUMENT NAME: Business Continuity Test, AWS DR Test

DOCUMENT ID REFERENCE: 1.2

Document Revision History		
Version	**Release Date**	**Change Description**
1.0	16/09/2025	Initial Release

Written by: Aditya Goyal

Checked by: Shakir Khan CISO

Approved by: Parth Bhansali DPO

Business Continuity Plan- Testing Report

Issue Date: 16/09/2025

Service Line: AWS Cloud DR Test

Service Leader: Aditya Goyal (DevOps & Cloud Department)

Contents

1 Introduction

1.1 Purpose

Business continuity plan needs to be tested. The result of testing to be used as an input to update and maintain the BCP Plans based on suggested improvement, corrective action and recommendations

1.2 Scope

The scope of this BCP testing is for AWS- Mumbai going down. Testing the Business Continuity Plan to cover the aspect that the AWS- Mumbai is not accessible in case of a disaster and Singapore region backup shall be re-stored and used as primary.

1.3 Objective

To test the preparedness of the in case of unavailability AWS- Mumbai

2 BCP Testing

2.1 Conducting the test

- **Date: 15/09/2025**
- **Start Time: 3:08 PM IST**
- **End Time: 4:18 PM IST**
- **Duration: 70 Minutes**

2.1.1 Test Scenario

1. **Scenario Description**

Testing the Business Continuity Plan to cover the aspect that the AWS- Mumbai is unavailable due to a disaster and backup maintained at AWS Mumbai shall be used to conduct the operations and client's services & Organization business continues. Failover was executed to AWS–Singapore region by restoring EC2 server and RDS instance, and validating connectivity via phpMyAdmin.

2. **Resources**

Number of FTEs participating in Test: 02

Name	Designation
Aditya goyal	DevOps & Cloud Department
Shakir Khan	Software Engineering Manager

2.2 Reporting Test Results

2.2.1 BCP Scenario Test Card

Time of Testing: 15:08 IST

Test Location: AWS Singapore.

Recovery Time Objective: 180

Time taken for starting operations from home (should be within RTO):

70 Minutes

Steps Performed:

1. Checked latest RDS snapshot (Mumbai region).
2. Copied RDS snapshot to Singapore region.
3. Copied EC2 AMI from Mumbai to Singapore.
4. Launched EC2 server from copied AMI (Singapore).
5. Attempted connection – failed initially.
6. Investigated issue – identified SG/NACL configuration error.
7. Fixed issue and updated Route 53 with Elastic IP + Load Balancer.
8. Verified RDS + phpMyAdmin connectivity successfully.

2.3 After Test Meeting

2.3.1 Summary of Test Results

Mission Critical Application's backup is restored and tested and determined that restored data is integral to continue business.

- EC**2 Web Server** – Application server launched in Singapore from Mumbai AMI.
- RDS **MySQL Database** – Restored from latest snapshot in Singapore region.
- phpMyAdmin – Verified database connectivity and accessibility.

Activities Performed along with Time spent

Sl. No.	Action	Recovery Time Objective (mins)	ETA Time Frame (mins)	Actual Time Taken (mins)	Actual Time & Date
-	In case of the Server failures resulting in the application down time, following are the actions to be performed by the DevOps team				
1	Pull latest RDS snapshot (Mumbai) & verification	15	15	16	3:08 PM – 3:24 PM, 15/09/2025
2	Restore RDS from snapshot in Singapore region	20	20	3	3:21 PM – 3:24 PM, 15/09/2025
	Re-map Security Group with instance	30	30	10	3:55 PM – 4:05 PM, 15/09/2025
3	Re-associate EIP with new instance	20	20	2	4:10 PM – 4:12 PM, 15/09/2025
5	ELB health check	15	15	Included above	4:12 PM, 15/09/2025
6	Basic smoke testing (environmental, functional testing)	30	30	6	4:12 PM – 4:18 PM, 15/09/2025
7	Re-map IAM role with instance	20	20	Included above	4:12 PM – 4:18 PM, 15/09/2025
8	Re-map CloudWatch custom metrics	20	20	Included above	4:12 PM – 4:18 PM, 15/09/2025
8	Test connection via phpMyAdmin (RDS verification)	20	20	6	4:12 PM – 4:18 PM, 15/09/2025

Since the backup happens once a day so Recovery Point Objective is 24 Hours

2.3.2 Issues or Concerns

- Initial **connection failure** (3:55 PM – 4:05 PM)
- Root cause: **NACL + Security Group misconfiguration**

2.3.3 Suggestions & Feedback (Lessons Learnt)

Following Improvement points were suggested by AVP Operations:

- Capture IP Address details of instances during DR test for audit reference.
- Pre-validate Security Groups & NACLs in DR region before cutover.
- Automate EC2 + RDS restore and Route 53 update steps in next cycle.
- Include additional failover scenarios (multi-AZ DR, IAM role mapping).

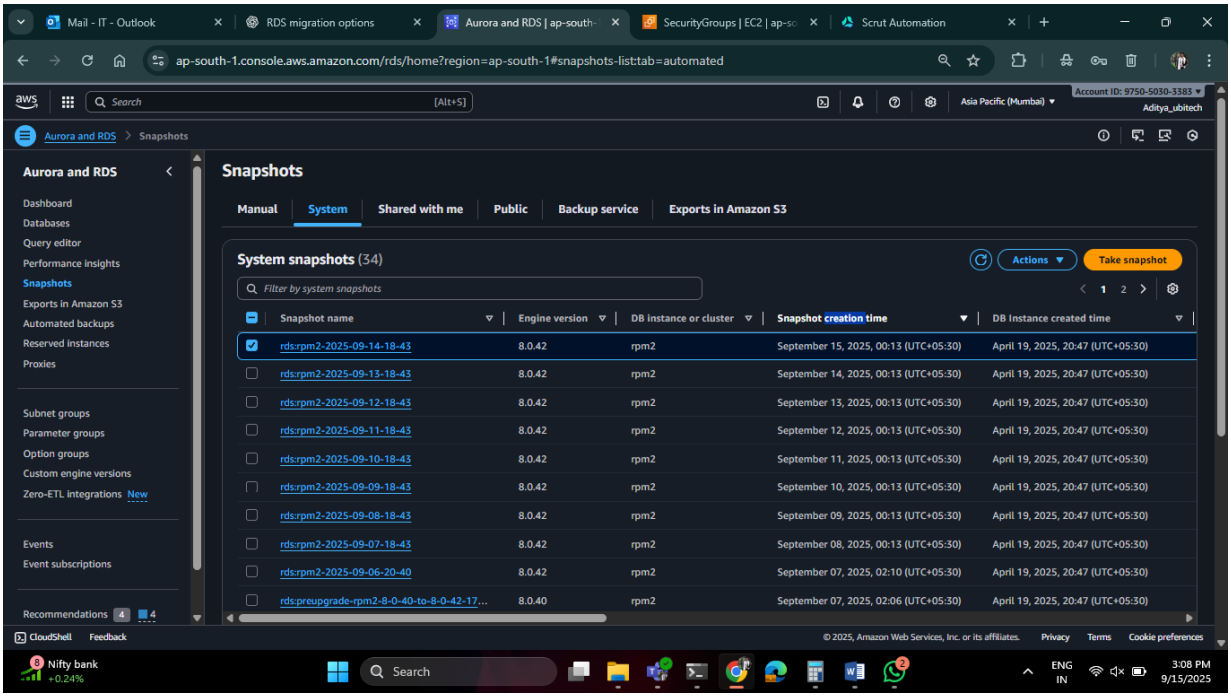
2.3.4 Test Result Approved by

CISO

Annexure 1 – Screenshots of activities performed

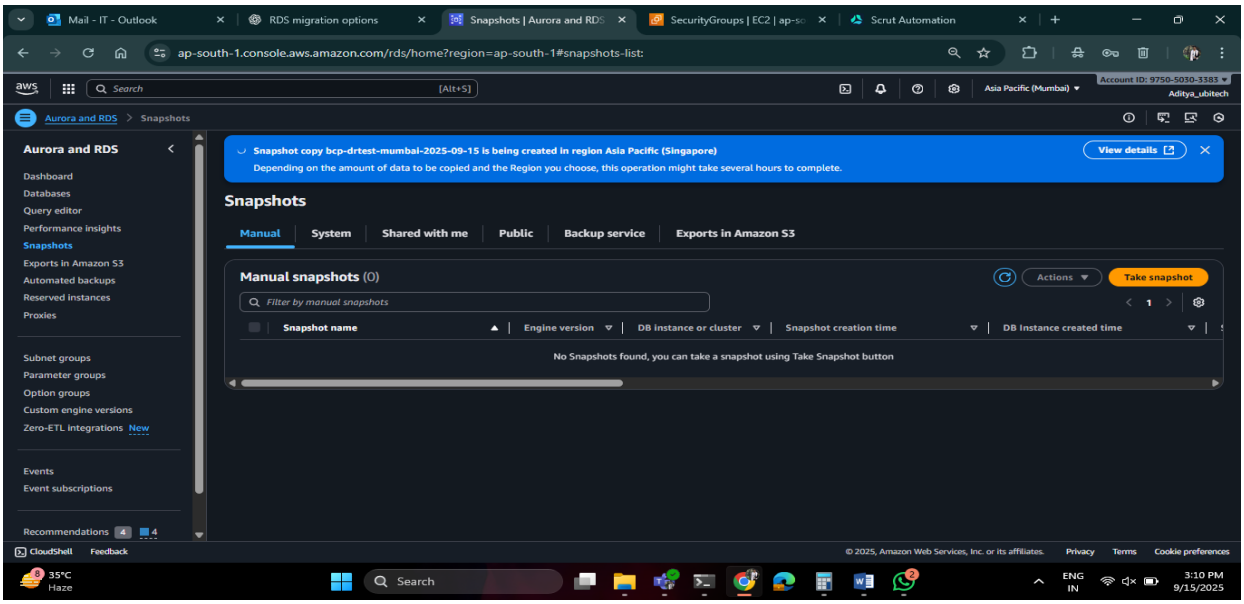
Screenshot 1

Description of Activity: Showing the latest RDS snapshot in Mumbai region before failover.



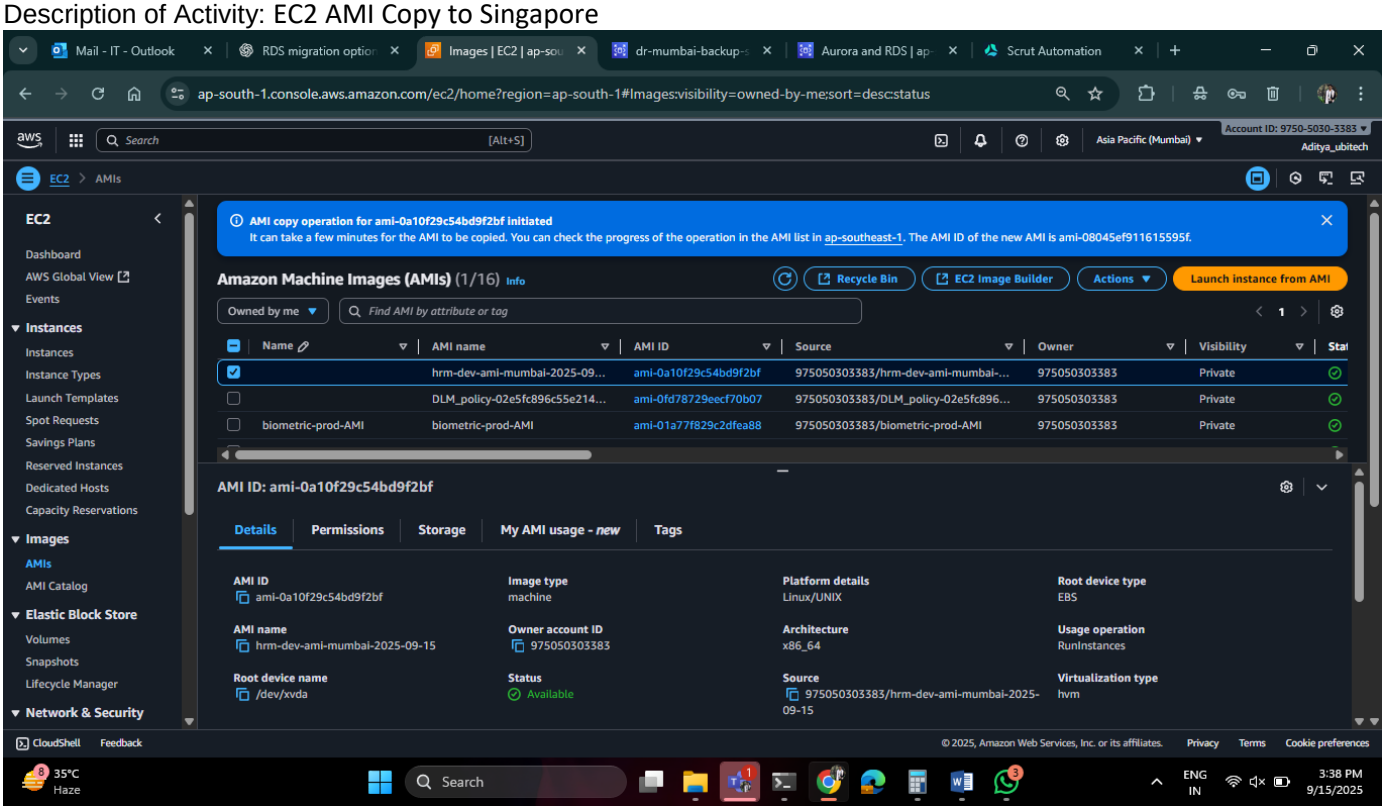
Screenshot 2

Description of Activity: Confirmation of snapshot replication in Singapore region.



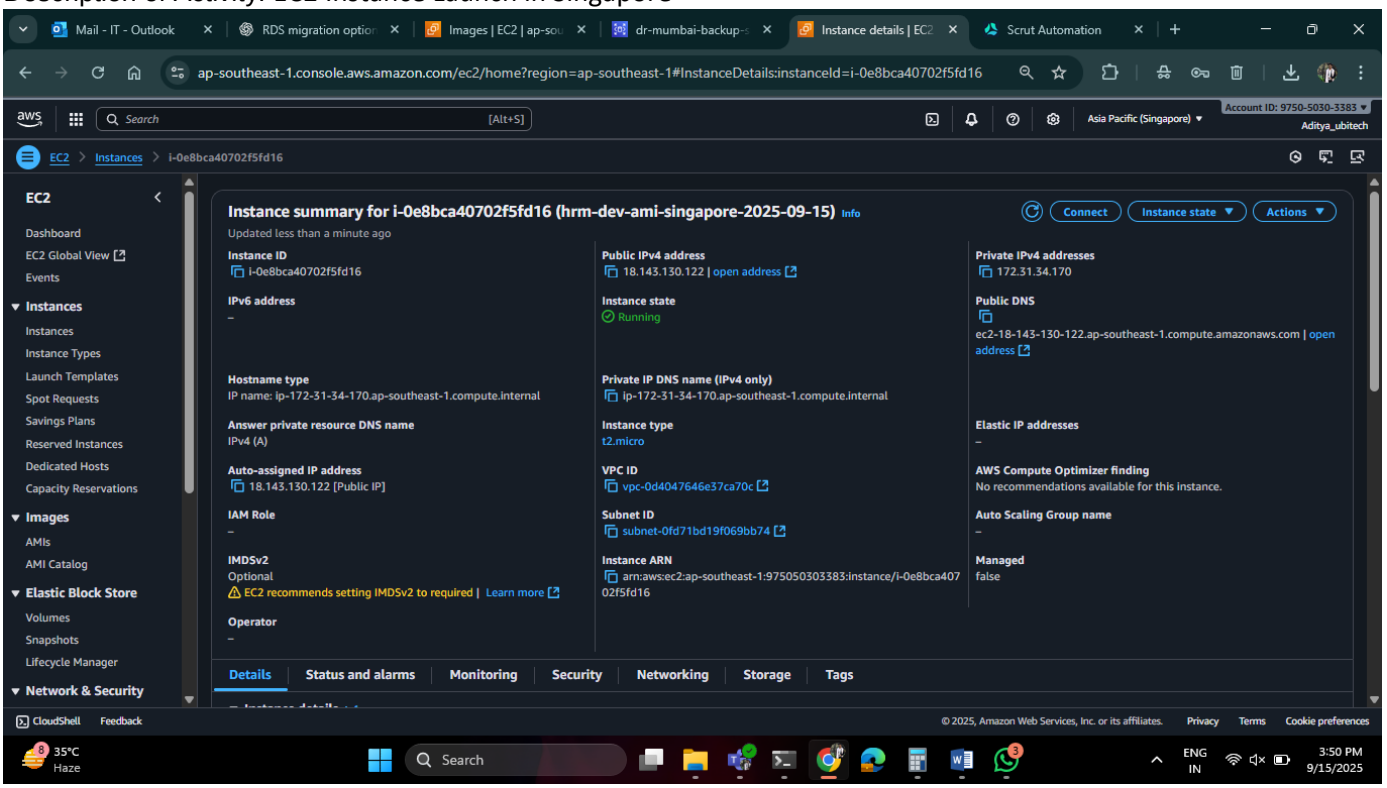
Screenshot 3

Description of Activity: EC2 AMI Copy to Singapore



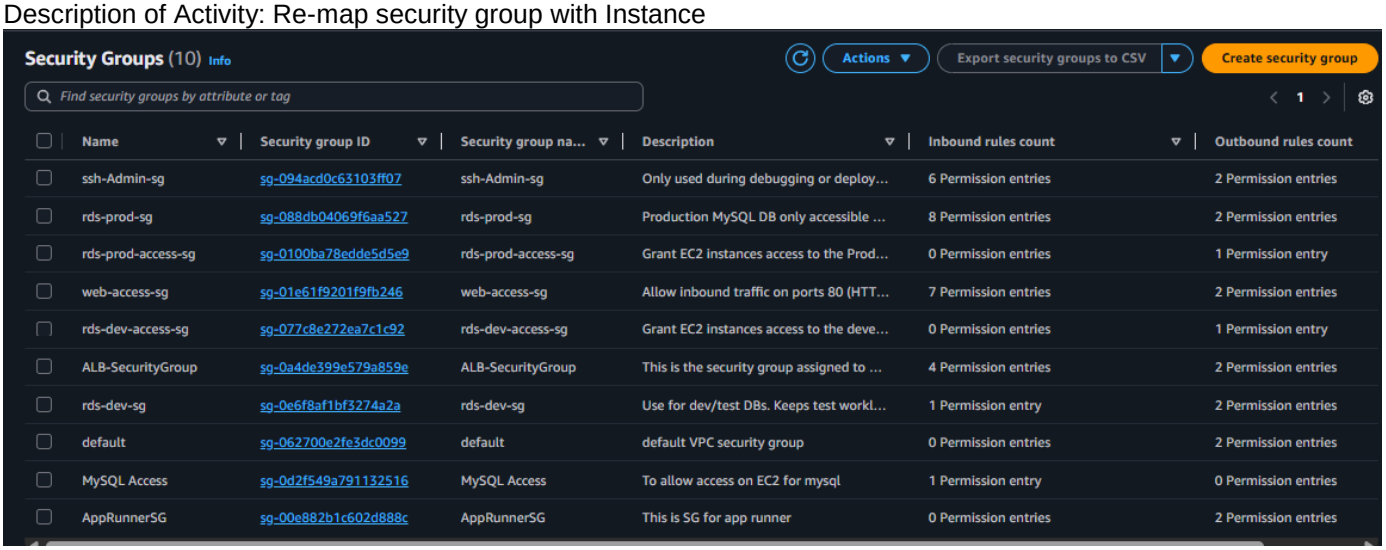
Screenshot 4

Description of Activity: EC2 Instance Launch in Singapore



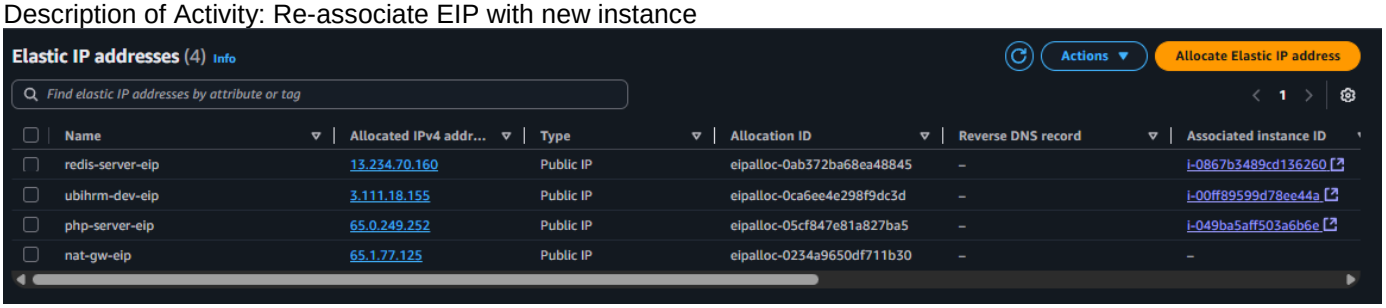
Screenshot 5

Description of Activity: Re-map security group with Instance



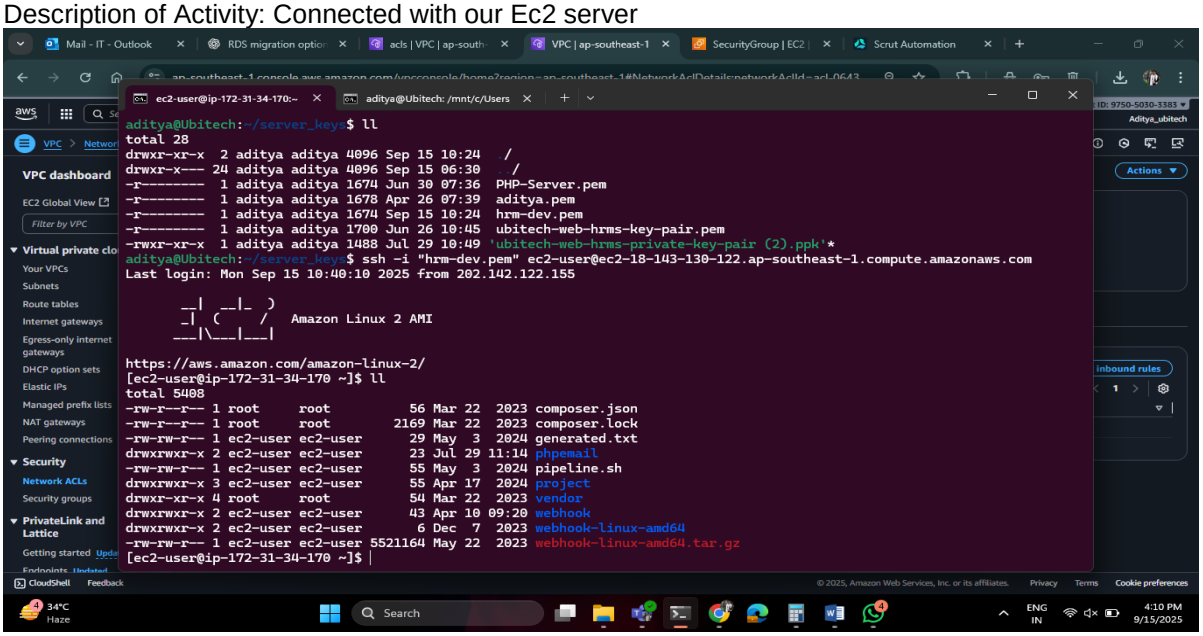
Screenshot 6

Description of Activity: Re-associate EIP with new instance



Screenshot 7

Description of Activity: Connected with our Ec2 server



Screenshot 8

Description of Activity: Final verification of restored RDS database via phpMyAdmin access.