

PROJECT: Disaster Recovery Plan for IBM Cloud Virtual Servers

Phase 1: Problem Definition and Design Thinking

Problem Definition:

The project aims to establish a robust disaster recovery plan using IBM Cloud Virtual Servers. Its primary objective is to secure uninterrupted business operations by formulating a comprehensive strategy for an on-premises virtual machine, ensuring continuity even in unforeseen events. The plan encompasses the setup of backup strategies, configuration of replication, testing recovery procedures, and guaranteeing minimal downtime. Key components of the project include defining the disaster recovery strategy, implementing backup and replication, validating recovery procedures, and ensuring business continuity.

Design Thinking:

1. Disaster Recovery Strategy:

Define the disaster recovery strategy and objectives, specifying recovery time objectives (RTO) and recovery point objectives (RPO).

Identify critical systems and data that need to be included in the disaster recovery plan.

Collaborate with stakeholders to ensure a clear understanding of recovery goals and expectations.

2. Backup Configuration:

Configure regular backups of the on-premises virtual machine to capture essential data and configurations.

Establish a backup schedule that aligns with RPO and RTO requirements.

Implement data encryption and secure storage to protect backup data.

3. Replication Setup:

Implement data and virtual machine image replication to IBM Cloud Virtual Servers.

Ensure continuous synchronization of data to maintain up-to-date copies.

Define replication intervals and monitoring mechanisms to detect and address any issues promptly.

4. Recovery Testing:

Design comprehensive recovery tests to validate the recovery process.

Conduct regular testing to identify and rectify any issues in the recovery plan.

Document test results and make necessary improvements to minimize downtime.

5. Business Continuity:

Ensure that the disaster recovery plan aligns with the organization's overall business continuity strategy.

Collaborate with key stakeholders to integrate disaster recovery into the broader continuity plan.

Develop a communication plan to keep all relevant parties informed during a disaster event.