

DISASTER RECOVERY WITH IBM CLOUD VIRTUAL SERVERS

PHASE-2

Innovation:

Designing a disaster recovery (DR) solution with IBM Cloud Virtual Servers involves implementing innovative strategies to ensure data and application availability in the event of a disaster. Here's a step-by-step approach to integrating innovation into your IBM Cloud Virtual Servers disaster recovery plan.

1. Serverless Computing for Scalable Recovery:

Utilize IBM Cloud Functions or serverless computing services for disaster recovery. This allows you to execute code in response to specific events, such as a disaster, without the need to provision and manage servers. It ensures that resources are allocated only when needed, optimizing cost and scalability.

2. Artificial Intelligence(AI) for Predictive Recovery:

Implement AI and machine learning algorithms to predict potential disasters or system failures. By analyzing historical data and system telemetry, AI can help in proactive disaster recovery planning, allowing you to take preventive actions before an issue escalates.

3. Serverless Data Backup and Restore:

Leverage serverless computing and cloud storage to automate data backup and restoration processes. Serverless platforms like IBM Cloud Functions can trigger backup and restore tasks based on predefined events, simplifying data management during disasters.

4. Blockchain based Data Integrity and Recovery:

Implement blockchain technology to ensure the integrity of critical data. By storing data in a distributed and immutable ledger, you can have greater confidence in data consistency and integrity during disaster recovery efforts.

5. Zero Trust for Network Security:

Adopt a Zero Trust Network Architecture (ZTNA) to enhance security during disaster recovery. ZTNA verifies and authenticates users and devices before granting access to resources, minimizing the risk of unauthorized access during recovery operations.

6. Quantum Computing for Data Recovery:

Explore the potential of quantum computing for data recovery tasks that involve complex mathematical operations, such as cryptographic key recovery. IBM is actively involved in quantum computing research, making it a promising area for innovation.