# **PROJECT 8 : DISASTER RECOVERY WITH IBM CLOUD SERVERS**

**PROJECT TITLE :** IBM disaster recovery

**PHASE 2 :** Innovation

Disaster management recovery innovation involves finding creative solutions to enhance the preparedness, response, and recovery efforts following natural or man-made disasters. This can include:

1. Assessment and Planning:

(i) Identify critical data and applications that need to be protected.

(ii) Assess potential risks and disaster scenarios.

(iii) Define Recovery Time Objectives (RTO) and Recovery Point Objectives (RPO) to determine how quickly you need to recover data and systems.

2. Choose IBM Cloud Services:

IBM Cloud offers a range of services for disaster recovery, including IBM Cloud Virtual Servers, IBM Cloud Object Storage, and IBM Cloud databases. Select the services that best suit your needs.

3. Data Backup and Replication:

(i) Implement data backup and replication mechanisms to create copies of your critical data and applications.

(ii) Utilize IBM Cloud Object Storage for scalable and durable data storage.

4. Failover Environment:

(i) Set up a secondary environment in a different geographic region for disaster recovery.

(ii) IBM Cloud offers multiple data centres around the world, making it suitable for creating a geographically diverse recovery site.

5. Automation and Orchestration:

(i) Implement automation and orchestration tools to manage failover and failback processes.

(ii) Tools like IBM Cloud Automation Manager can help automate disaster recovery procedures.

6. Testing:

(i) Regularly test your disaster recovery plan to ensure it works as expected.

(ii) IBM Cloud provides tools and services for testing and validation.

7. Monitoring and Alerting:

(i) Continuously monitor your primary and secondary environments.

(ii) Set up alerts and notifications to be informed of any issues.

8. Documentation and Training:

Document your disaster recovery plan and make sure your team is well-trained on the procedures.

9. Compliance and Security:

(i) Ensure that your disaster recovery plan complies with industry regulations.

(ii) Implement security best practices to protect data during the recovery process.

10. Regular Updates:

Periodically review and update your disaster recovery plan to adapt to changing circumstances and technologies.

11. Third-party Partners:

Consider partnering with third-party disaster recovery service providers that specialize in IBM Cloud solutions for added expertise.

12. Cost Management:

Keep an eye on costs associated with disaster recovery. IBM Cloud offers cost management tools to help you optimize spending.

By following these steps and leveraging IBM Cloud services, you can create a robust disaster recovery plan to protect your critical data and applications in the event of a disaster. It's essential to tailor the plan to your organization's specific needs and regularly test it to ensure its effectiveness.