KGiSL INSTITUTE OF TECHNOLOGY

Coimbatore – 641035

Institution code : 7117

Disaster recovery with IBM cloud virtual servers

MENTOR:

MRS.INDU POORNIMA.R

TEAM MEMBERS:

DHAKSHATA.R

ANANTHI.C

ARUNA.S

HARINI.V

Disaster recovery with IBM cloud virtual servers

Problem Definition:

The objective of this project is to establish a comprehensive disaster recovery plan utilizing IBM Cloud Virtual Servers. The primary aim is to ensure the continuity of business operations in the face of unforeseen events that may disrupt our on-premises virtual machine infrastructure. This disaster recovery plan encompasses multiple phases, including defining the disaster recovery strategy, configuring backup and replication processes, validating recovery procedures, and ultimately ensuring seamless business continuity.

Project Objective:

The main objective for the project of implementing Disaster Recovery with IBM Cloud Virtual Servers is to ensure the continuity of critical IT services and data in the event of unforeseen disasters or disruptions.

Project Scope:

The scope of the project encompasses Identification of critical systems and data, resource allocation, network configuration, security and compliance , documentation and training and post implementation support.

Key Deliverables:

The project aims to deliver a fully functional and visually appealing Disaster recovery with IBM cloud virtual servers .

Design Thinking:

Content Planning:

Identifying Critical Systems and Data.

Defining RTOs and RPOs.

Resource Allocation for Disaster Recovery.

Network configuration and disaster recovery.

Automation and Orchestration.

Securiity and compliance in disaster Recovery.

Content Creation:

Identifying Critical Systems and Data : How to identify critical virtual servers, applications, and data . Impact assessment of downtime on critical systems

Defining RTOs and RPOs : Explanation of Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs) . Setting RTOs and RPOs for different systems and data.

Resource Allocation for Disaster Recovery : Allocating computing, storage, and networking resources . Balancing cost-effectiveness with resource availability

Network Configuration for Disaster Recovery : Designing the network architecture to support data replication and failover . Configuring network settings for seamless communication

Automation and Orchestration : The role of automation in disaster recovery . Developing scripts and configurations for automated failover and failback

Security and Compliance in Disaster Recovery : Data security measures during replication and failover . Compliance considerations and best practices

Website Design:

Aesthetics: The website's design will prioritize a visually appealing and professional appearance, conveying a sense of trust and reliability, given the critical nature of disaster recovery .

User-Friendly: To ensure a user-friendly experience for visitors interested in the project, the website will focus on ease of use and accessibility .

Responsive The website will be designed to adapt seamlessly to different devices and screen sizes.

Interactivity: To engage visitors and enhance their experience, interactive elements will be strategically incorporated: JavaScript Enhancements , Forms and Feedback, Call to Action (CTA) Buttons, Multimedia Integration , and Social Media Integration.

IBM Cloud Setup:

IBM Cloud Account Setup : If not already done, create or use an existing IBM Cloud account. Verify and configure billing settings to accommodate the project's resource

Content Management:

CMS Selection: Ensure the selected CMS is capable of handling various content types, including text, images, videos, and documents, to facilitate comprehensive project documentation . Develop a structured content creation process that allows project team members to contribute content, updates, and documentation. Implement role-based access control to restrict access to sensitive content or features as needed.

User Training: Training should cover tasks such as adding, editing, and updating content, as well as managing media files and documents.

Conclusion:

In conclusion, the "Disaster Recovery with IBM Cloud Virtual Servers" project is a critical initiative designed to safeguard an organization's IT infrastructure and data in the face of unforeseen disasters or disruptions. The project's main objectives encompass ensuring business continuity, protecting vital data, and minimizing downtime, all while maintaining cost-effective resilience.