

Building Disaster Recovery Plan with IBM Cloud Virtual Servers

Definition:

A disaster recovery plan (DRP) is a documented plan that describes how an organization will recover from a disaster. A DRP should include steps to minimize the impact of a disaster on the organization's operations and to restore the organization to its normal state as quickly as possible.

A DRP is an essential part of any business continuity plan (BCP). A BCP is a comprehensive plan that outlines how an organization will maintain critical business functions during and after a disruption. The DRP is the part of the BCP that specifically addresses the recovery of IT systems and data.

A DRP should include the following information:

- A list of the organization's critical IT systems and data
- A risk assessment that identifies the most likely threats to the organization's IT systems and data
- A recovery strategy that outlines the steps that will be taken to restore the organization's IT systems and data in the event of a disaster
- A communication plan that outlines how the organization will communicate with employees, customers, and other stakeholders during and after a disaster
- A testing plan that outlines how the DRP will be tested on a regular basis

DRPs can be tailored to the specific needs of any organization. The size and complexity of the DRP will vary depending on the size and complexity of the organization's IT environment.

Here are some examples of disasters that a DRP should cover:

- Cyberattacks
- Hardware failures
- Power outages

- Software failures

By having a DRP in place, organizations can minimize the impact of disasters on their operations and get back to business as quickly as possible.



To build a disaster recovery plan with IBM Cloud Virtual Server, we will need to:

1.Assess your risks:

What are the most likely threats to your IBM Cloud Virtual Server environment? Natural disasters? Cyberattacks? Hardware failures? Once you have identified your risks, you can start to develop a plan to mitigate them.

2.Choose a disaster recovery solution:

IBM Cloud offers a variety of disaster recovery solutions, including:

- IBM Cloud Resiliency Services
- IBM Cloud Backup as a Service (BaaS)

- IBM Spectrum Protect Plus

IBM Cloud Resiliency Services:

A fully managed disaster recovery service that provides a comprehensive solution for protecting the data and applications.

IBM Cloud Backup as a Service (BaaS):

A cloud-based backup and recovery solution that allows to back up the data to IBM Cloud and restore it quickly and easily.

IBM Spectrum Protect Plus:

A software solution that provides comprehensive data protection for virtual machines, databases, and containers.

Design the disaster recovery plan:

This should include the following:

- Recovery point objective (RPO)
- Recovery time objective (RTO)
- Recovery procedures

Recovery point objective (RPO):

The maximum amount of data that can afford to lose in a disaster.

Recovery time objective (RTO):

The maximum amount of time that the systems can be down in a disaster.

Recovery procedures:

Step-by-step instructions for restoring the data and systems in a disaster.

Parameters that Assess Data Loss Risk



4. Implement disaster recovery plan:

This includes setting up your chosen disaster recovery solution and configuring it to meet your RPO and RTO requirements.

5. Test disaster recovery plan:

It is important to regularly test your disaster recovery plan to ensure that it works as expected.

Here are some additional tips for building a disaster recovery plan with IBM Cloud Virtual Server

➤ Use multiple regions:

IBM Cloud has data centers in multiple regions around the world. This allows you to replicate the data and applications to a different region in the event of a disaster in primary region.

➤ Use snapshots:

Snapshots are point-in-time copies of virtual servers. You can use snapshots to quickly create backups of our virtual servers or to restore virtual servers to a previous state.

➤ Use automation:

IBM Cloud offers a variety of automation tools that can help, to automate the disaster recovery process. This can help to reduce the time and effort required to recover from a disaster.

Once we implemented our disaster recovery plan, it is important to regularly review and update it to ensure that it is still meeting our needs.

Conclusion:

IBM Cloud Virtual Server offers a variety of features and services that can help to build and implement a comprehensive disaster recovery plan. By following the steps outlined above, can create a disaster recovery plan that will help to protect our data and applications and minimize downtime in the event of a disaster.

IBM Cloud Virtual Server can help you to keep the business running even in the face of a disaster.

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