

disaster recovery

IBMcloud virtual servers

INTRODUCTION

Disaster recovery (DR) typically refers to ability to restart IT services from a different geographic location and infrastructure. To implement DR, you need a set of data, compute, and network capabilities in the alternative location and the ability to operate and manage them.

disaster recovery plan of IBM cloud

Disaster recovery planning involves strategizing, planning, deploying appropriate technology, and continuous testing. Maintaining backups of your data is a critical component of disaster recovery planning, but a backup and recovery process alone does not constitute a full disaster recovery plan.

strategies for disaster recovery

strategies should cover data backup and restoration, system and network redundancy, alternate site and equipment, communication and coordination, as well as roles and responsibilities. It is essential to test and update these strategies regularly to ensure their effectiveness and efficiency.

RTO in disaster recovery

Recovery Time Objective (RTO) is the duration of time and a service level within which a business process must be restored after a disaster in order to avoid unacceptable consequences associated with a break in continuity.

EXAMPLE

If the website goes down for 45 minutes, the RTO would be 15 minutes (1 hour – 45 minutes). If the order processing system is unavailable for 3 hours, the RTO would be 1 hour (2 – 1 hour). If the payment gateway experiences a disruption for 20 minutes, the RTO would be 10 minutes (30 – 20 minutes).

RPO in disaster recovery

RPO recovery point objective is a time-based measurement of the maximum amount of data loss that is tolerable to an organization. Also called backup recovery point objective, RPO is additionally important to determining whether the organization's backup schedule is sufficient to recover after a disaster.

EXAMPLE

Examples of RPOs include time between data backups for business financial data/banking transactions, customer relationship management databases, and patient records. Business units may each be able to continue to function if they lose data from within a specified period (the RPO).

DIAGRAM - 1

The difference between RTO and RPO

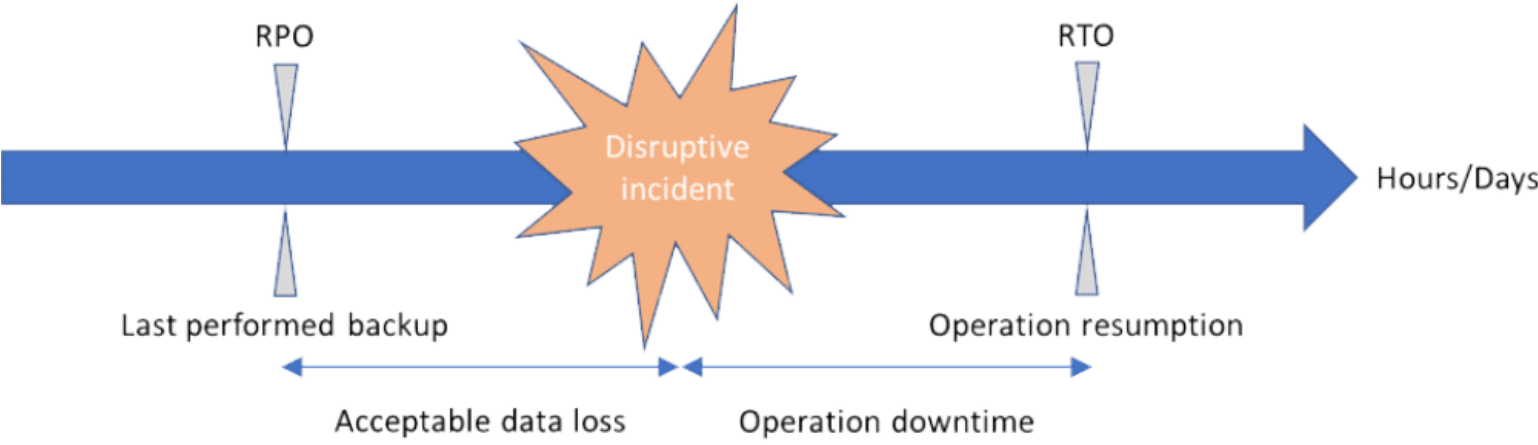
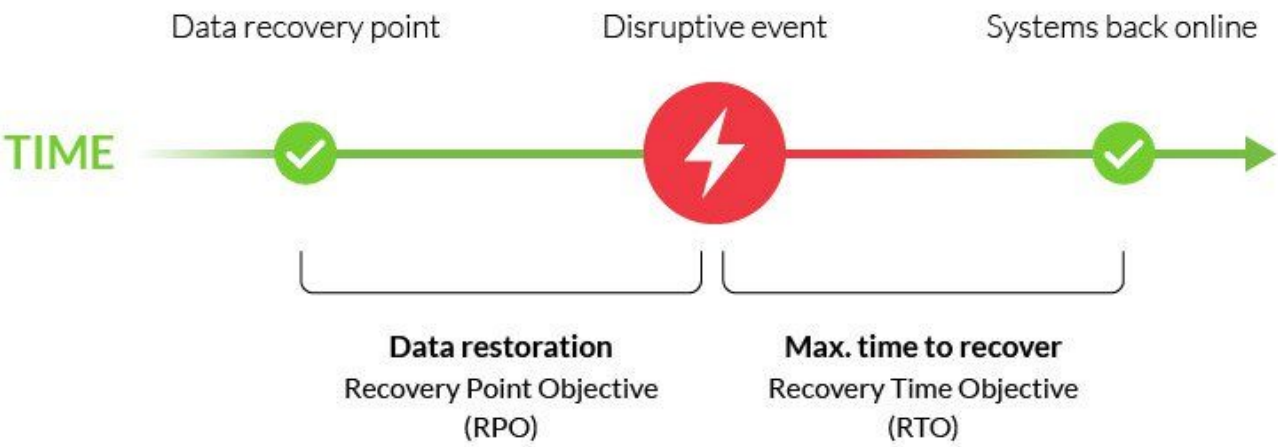
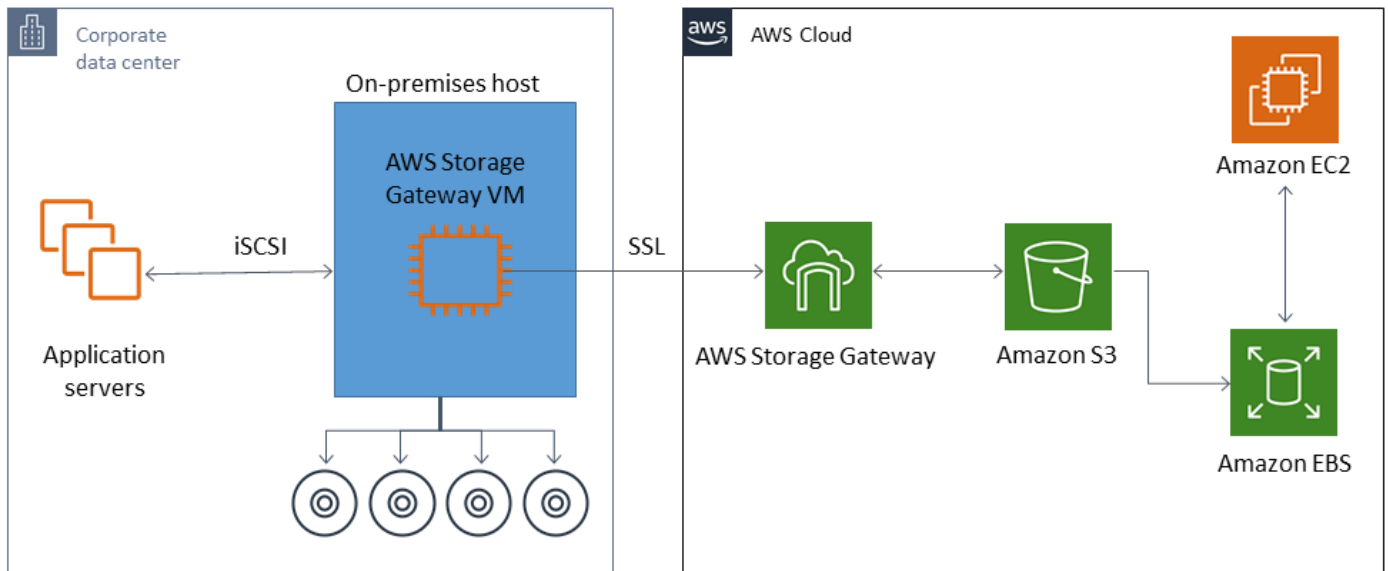


DIAGRAM - 2



on-premises virtual machines

Azure Backup backs up the data, machine state, and workloads running on on-premises machines and Azure virtual machine (VM) instances.



assignment notebook submission

BALRAJ . M

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COMPUTER SCIENCE