

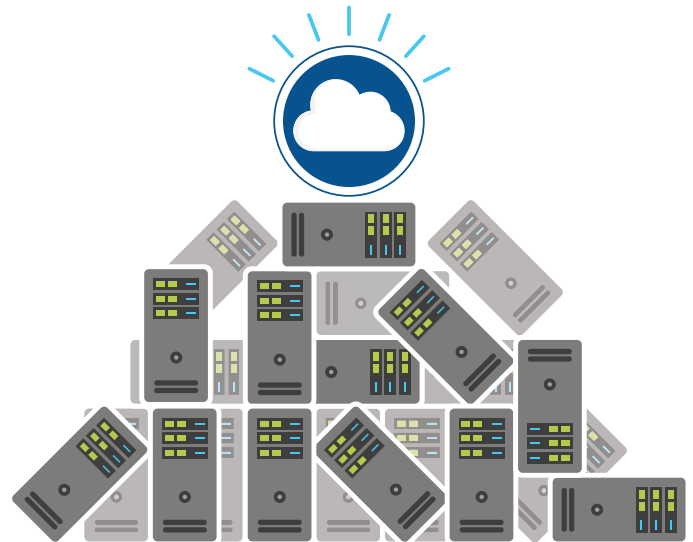
Backup and disaster recovery

Overview

One of IT's most essential functions is to ensure that corporate data is never lost and that applications stay available—despite server crashes, power outages, or natural disasters.

The first step in preventing data loss is to back up your data. In the past, backups consisted of copying content from drives to an offline media (e.g. tape) and then transporting that data to an offsite location. With the cloud, there is a better approach.

With enormous capacities of storage, built-in security, and cloud datacenters all over the world, Azure offers a cost-effective cloud solution that can ensure that your data will be protected for when the unexpected or unthinkable happens.



In addition to protecting your data, you also need to make sure your applications stay available during an IT interruption, and that downtime is limited. Disaster recovery with Azure Site Recovery allows you to set up and test your disaster recovery solution in just 3 steps and without paying for additional infrastructure. In minutes, you can have peace of mind knowing that your business-critical applications will be available when disaster strikes.

Azure offers a business continuity solution that seamlessly fails over applications from the disaster-struck site to another Azure region and allows you to quickly and easily access and restore your data from Azure.

What it all means



Business continuity

The process through which an organization recovers from a disaster and continues normal business operations.



Failover

The constant capability to automatically and seamlessly switch to a highly reliable backup.



Recovery time objective (RTO)

How fast you need to get your data and applications back.



Recovery point objective (RPO)

How current the data and applications must be when restored.

Back up securely with the right tools

Azure Site Recovery service Azure Backup service

Ensure business continuity by keeping your applications running in Azure. Azure Site Recovery makes it simple for you to test disaster recovery by replicating applications between Azure regions. You can also replicate on-premises VMware and Hyper-V virtual machines and physical servers to Azure to stay available if the primary site goes down. Recover workloads to the primary site when it's up and running again.

Keep your data safe and recoverable by backing it up to Azure. Azure Backup is a simple solution that decreases your infrastructure costs while giving you enhanced security mechanisms to protect your data against ransomware. With one solution, you can protect workloads running in Azure and on-premises across Linux, Windows, VMware and Hyper-V.

With Azure Site Recovery and Azure Backup, you can implement a full BCDR solution in the cloud—ensuring data consistency, zero test disruption, and customized recovery plans.

Additional resources

Topic	Resource
Azure Backup overview	https://docs.microsoft.com/en-us/azure/backup/backup-introduction-to-azure-backup
Azure Site Recovery overview	https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview
Azure Site Recovery video	https://azure.microsoft.com/en-us/resources/videos/azure-friday-azure-site-recovery-anderson/
Back up VMware server to Azure	https://docs.microsoft.com/azure/backup/backup-azure-backup-server-vmware
Back up SQL Server to Azure with Azure Backup Server	https://docs.microsoft.com/azure/backup/backup-azure-exchange-mabs
Back up a SharePoint farm to Azure	https://docs.microsoft.com/azure/backup/backup-azure-backup-sharepoint-mabs
Back up SQL Server to Azure with Azure Backup Server	https://docs.microsoft.com/en-us/azure/backup/backup-azure-sql-mabs
Azure datacenters overview	https://azure.microsoft.com/en-us/overview/datacenters/
Designing resilient applications for Azure	https://docs.microsoft.com/en-us/azure/architecture/resiliency/index
Recovering from a region-wide disruption	https://docs.microsoft.com/en-us/azure/architecture/resiliency/recovery-loss-azure-region

Take the next steps and get hands-on with backup and recovery

Download our e-guide for more in-depth information and implementation guidance:
<https://aka.ms/azurestrategyandimplementationguide>

- Learn more about Azure Backup at <https://azure.microsoft.com/en-us/services/backup/>
- Check out Azure Site Recovery at <https://azure.microsoft.com/en-us/services/site-recovery/>