

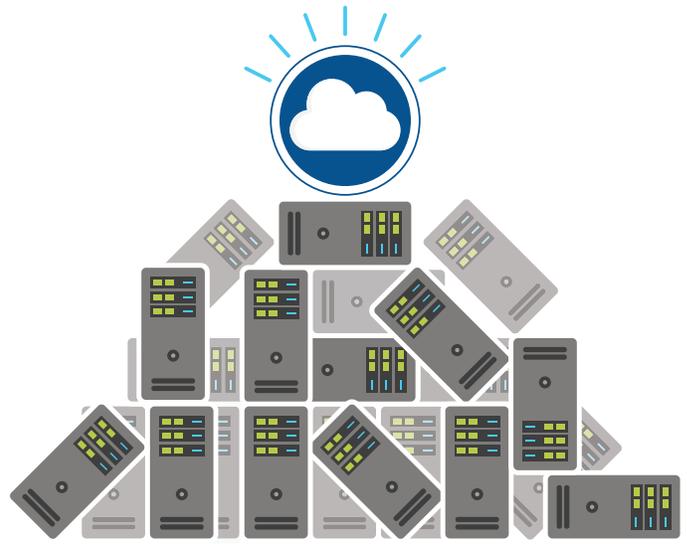
# Backup and disaster recovery

## 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 in Azure is to back up your data. As a user of an Azure virtual machines, you can rest assured we take three copies of your VM and store it in Azure Storage so that if any machine goes down, we can restore one of those copies. Yet you still need Azure Backup to protect your data against ransomware, corruption or accidental deletion.

With our integration into the virtual machine experience, built-in security, and cloud datacenters all over the world, this cost-effective solution ensures 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 between Azure regions allow you to setup 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.

The best business continuity solution is one that seamlessly fails over applications from Azure to another Azure region or site 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.

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

## 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/>