

What is resiliency in Azure?



Comprehensive set of native business continuity solutions, providing high availability, disaster recovery, and backup to protect your mission critical applications and data.

SINGLE VM

Easier lift and shift

AVAILABILITY SETS

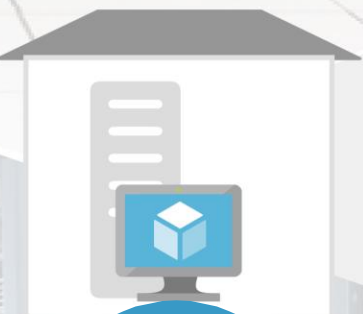
Protecting against failures within datacenters

AVAILABILITY ZONES

Protection from entire datacenter failures

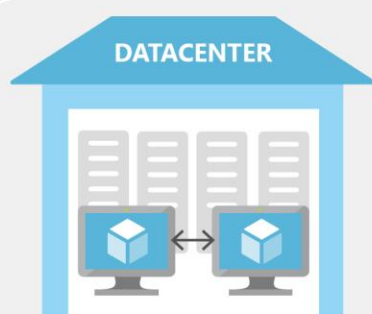
REGION PAIRS

Regional protection within data residency boundaries



VM SLA

99.9%
with Premium Storage

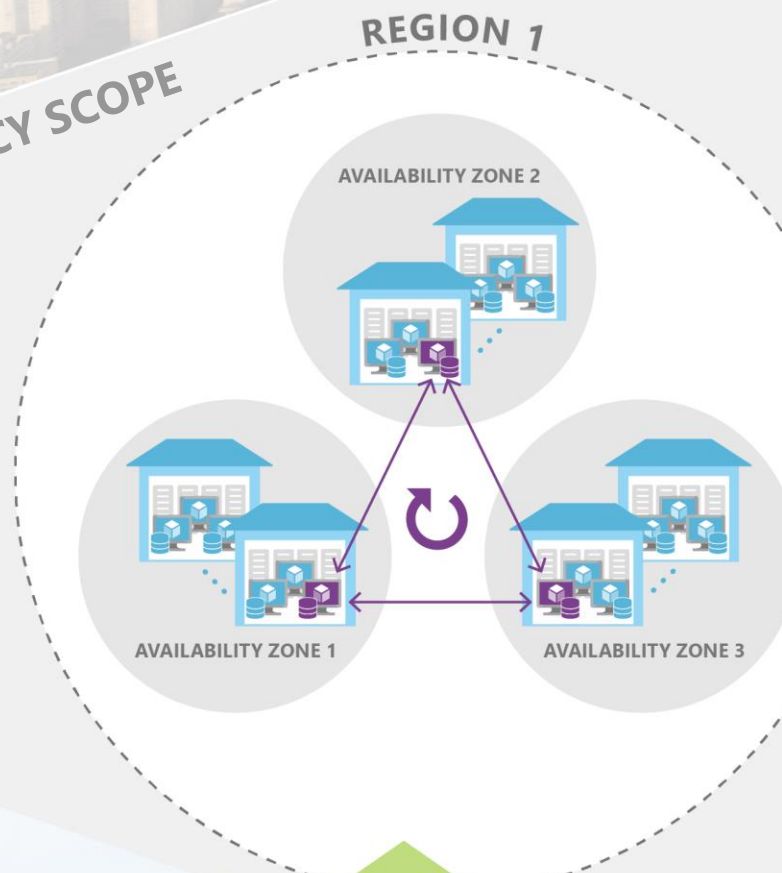


Protection from...
Hardware failure
Software update cycles

VM SLA

99.95%

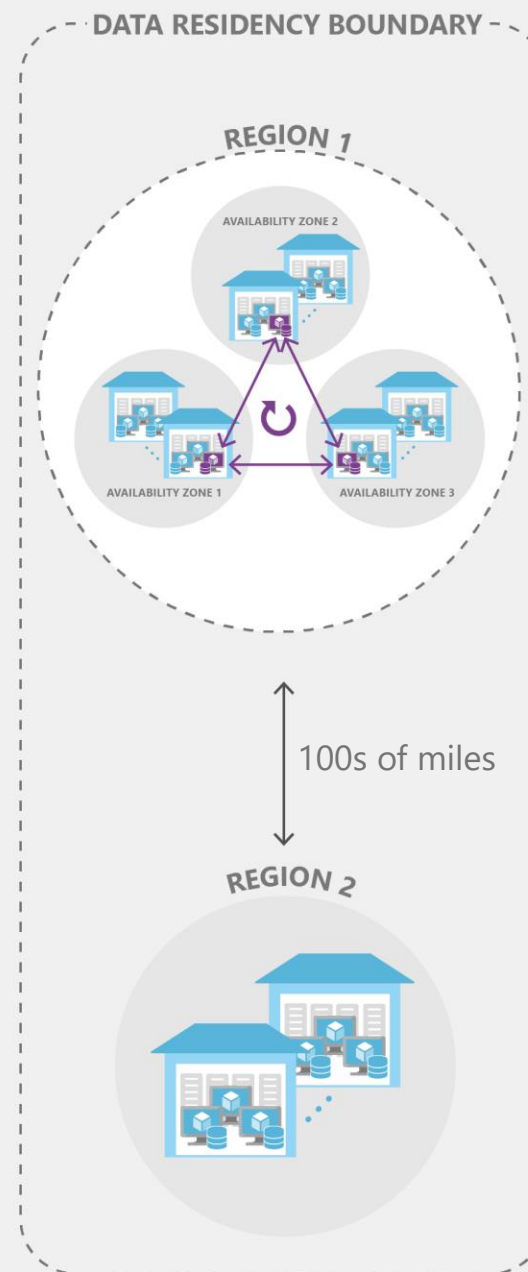
RESILIENCY SCOPE



Protection from...
Fire
Power + Cooling Disruption
Flood

VM SLA

99.99%



Protection from...
Tornado
Earthquake
Other Large Scale Disasters

HIGH AVAILABILITY

DISASTER RECOVERY/BACKUP

What is Resiliency?

- ✓ **High Availability**
Maintaining acceptable continuous performance despite temporary failures in services, hardware, datacenters, or fluctuations in load.
- ✓ **Disaster Recovery**
Protection against loss of an entire region through asynchronous replication and failover of VMs to another cloud region using Azure Site Recovery.
- ✓ **Backup**
Replication of data to one or more regions.

Definitions

Resiliency Scope
The radius of protection for applications and data. For example, Availability Sets protect applications within a datacenter, and Availability Zones protect applications and data spread across multiple zones.

Data Residency Boundary
Two regions that share the same regulatory requirements for data replication and storage for the country or region in which they operate.

ISO-22301 Certification

Azure is certified under the first international standard to demonstrate the ability to prevent, mitigate, respond to and recover from disruptive incidents.

Azure Architecture Center

Tested and proven Azure best practices for resiliency, cost, performance, and scalability.
• aka.ms/architecture

For More Information

- Azure resiliency solutions:
- azure.com/resiliency
- Azure Availability Zones overview:
- aka.ms/azoverview
- Disaster Recovery in Azure:
- aka.ms/disaster-recovery