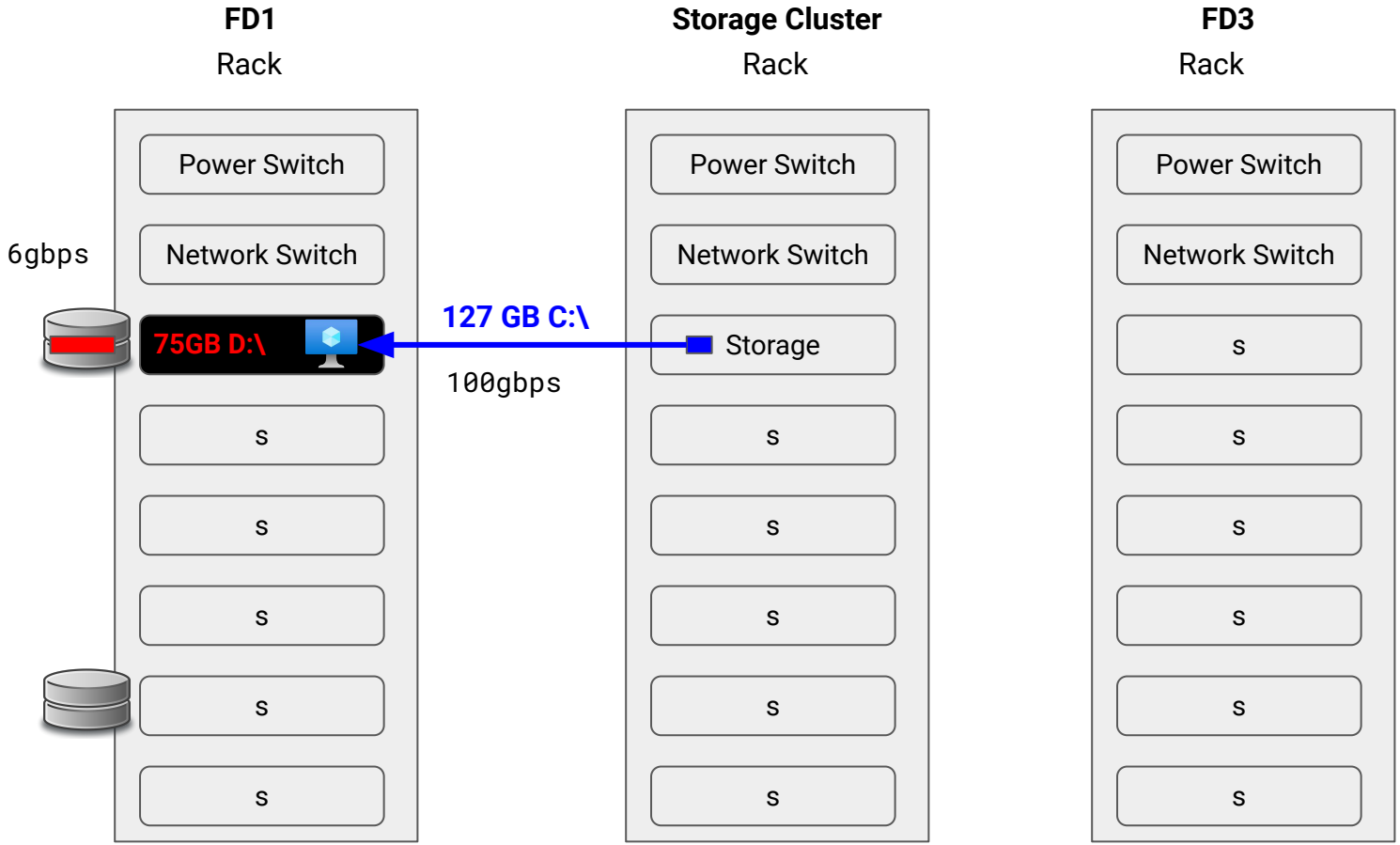
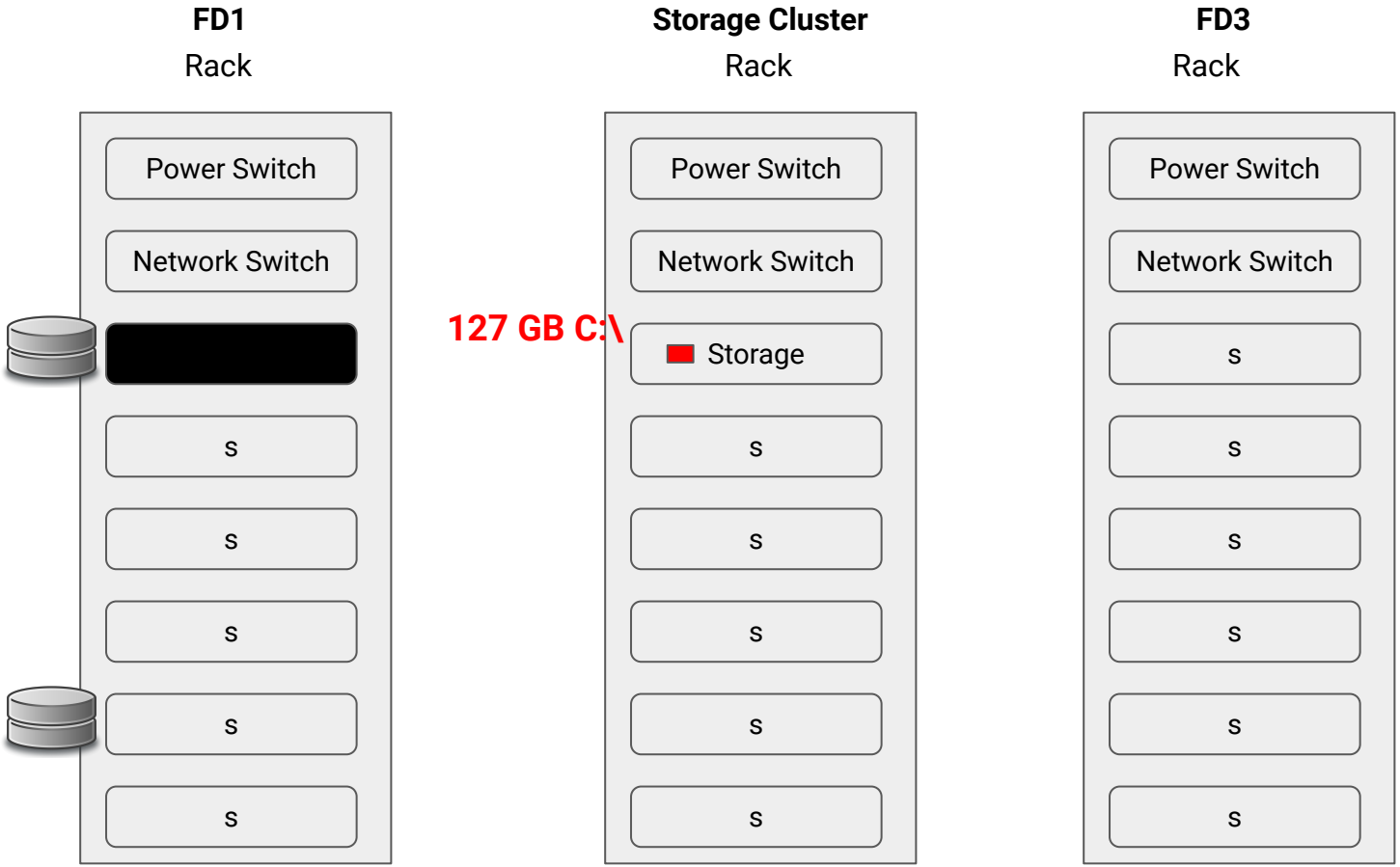
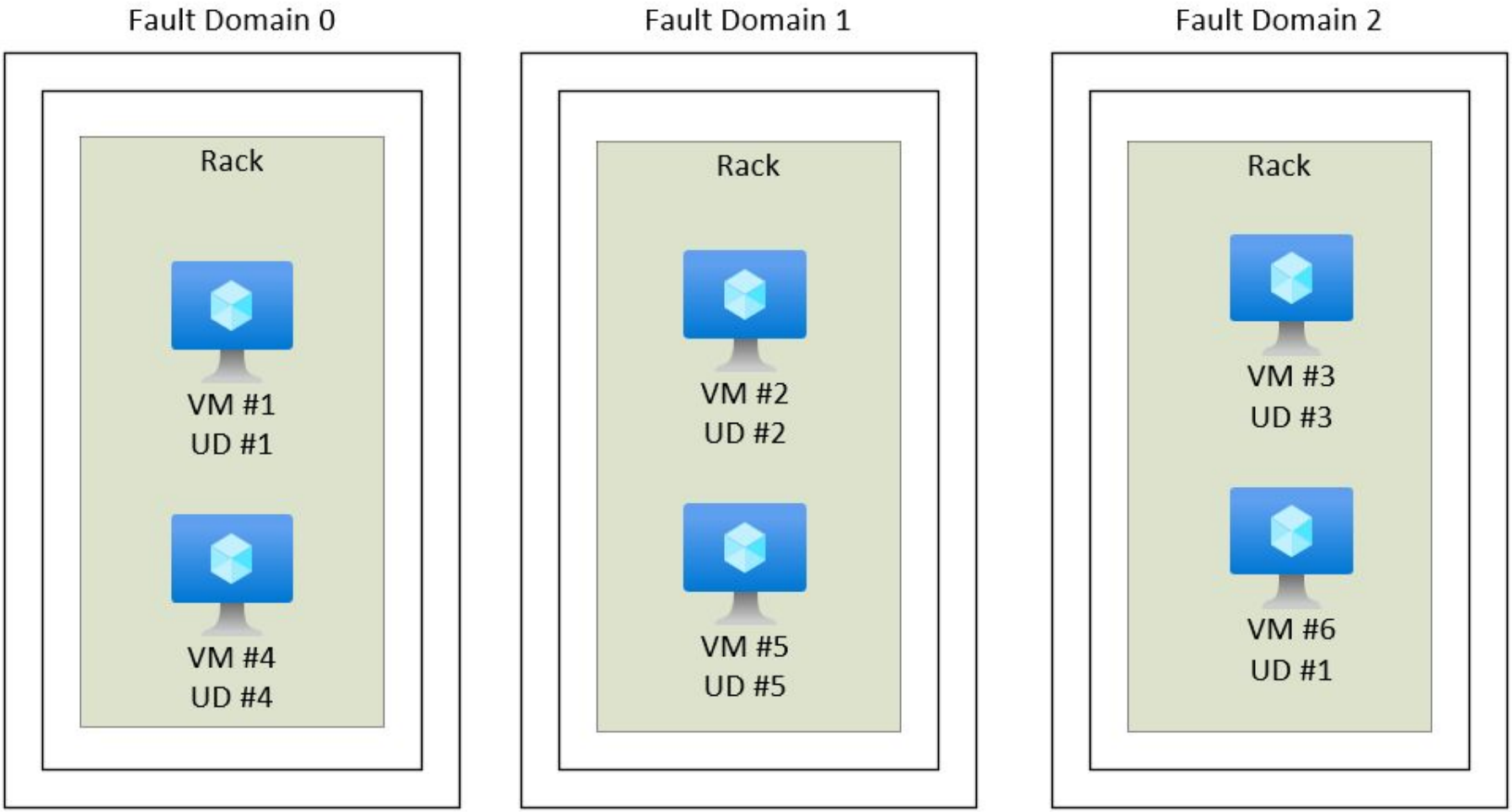
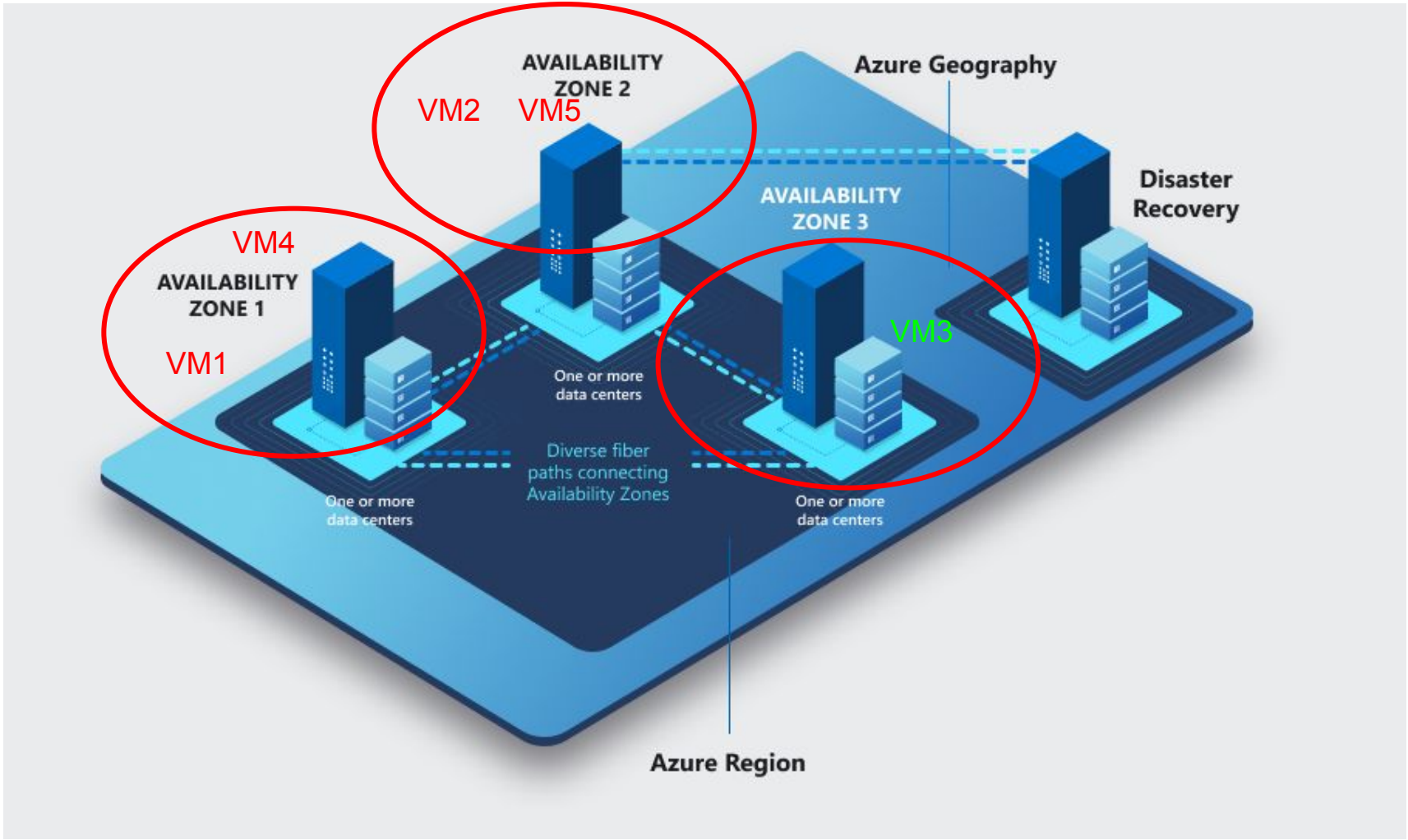
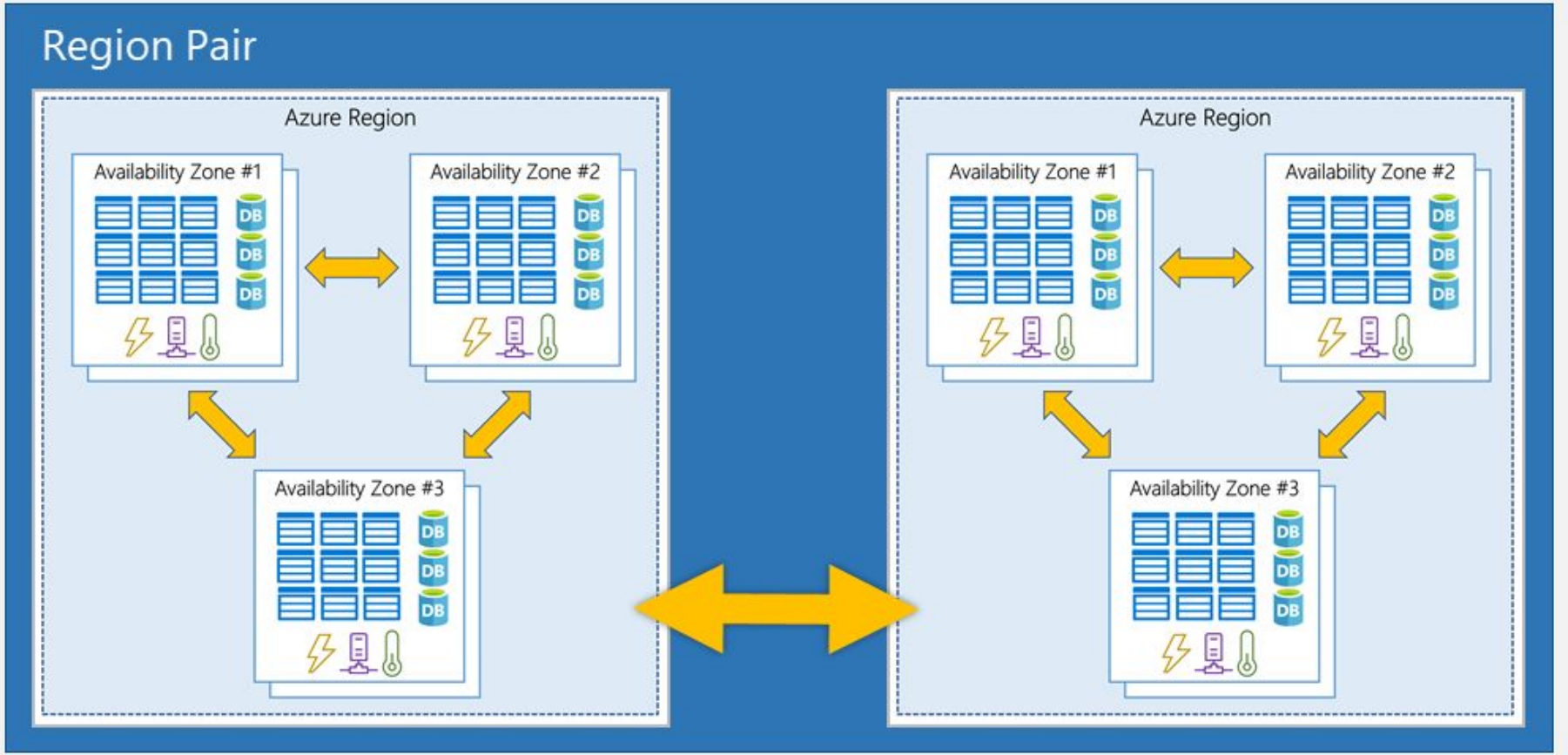

FD1
Rack
Storage Cluster
Rack
FD3
Rack
Power Switch
Network Switch
6gbps
75GB D:\
127 GB C:\
Storage
100gbps
s

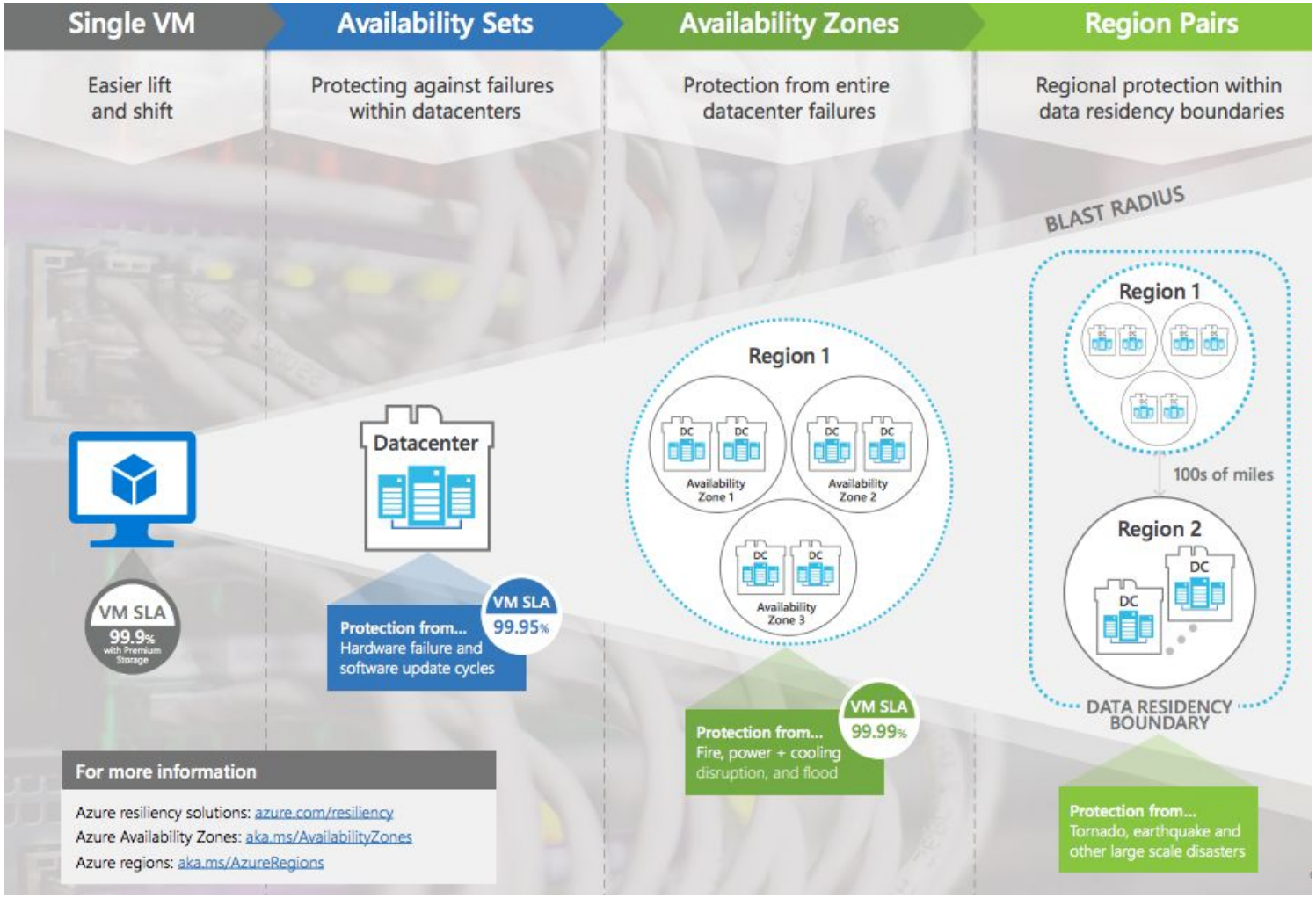

FD1
Rack
Power Switch
Network Switch
s
s
s
s
s
Storage Cluster
Rack
127 GB C:\
Power Switch
Network Switch
Storage
s
s
s
s
s
FD3
Rack
Power Switch
Network Switch
s
s
s
s
s
s


Fault Domain 0
Rack
VM #1
UD #1
VM #4
UD #4
Fault Domain 1
Rack
VM #2
UD #2
VM #5
UD #5
Fault Domain 2
Rack
VM #3
UD #3
VM #6
UD #1


AVAILABILITY ZONE 2
VM2
VM5
Azure Geography
Disaster Recovery
AVAILABILITY ZONE 3
VM4
AVAILABILITY ZONE 1
VM1
VM3
One or more data centers
Diverse fiber paths connecting Availability Zones
One or more data centers
One or more data centers
Azure Region

Geography


Region Pair
Azure Region
Availability Zone #1
Availability Zone #2
Availability Zone #3
DB
DB
DB
Azure Region
Availability Zone #1
Availability Zone #2
Availability Zone #3
DB
DB
DB


Single VM
Availability Sets
Availability Zones
Region Pairs
Easier lift and shift
Protecting against failures within datacenters
Protection from entire datacenter failures
Regional protection within data residency boundaries
BLAST RADIUS
Region 1
DC
Availability Zone 1
Availability Zone 2
Availability Zone 3
100s of miles
Region 2
DATA RESIDENCY BOUNDARY
Datacenter
VM SLA
99.9% with Premium Storage
VM SLA
99.95%
Protection from... Hardware failure and software update cycles
VM SLA
99.99%
Protection from... Fire, power + cooling disruption, and flood
Protection from... Tornado, earthquake and other large scale disasters
For more information
Azure resiliency solutions: azure.com/resiliency
Azure Availability Zones: aka.ms/AvailabilityZones
Azure regions: aka.ms/AzureRegions