Zerto Colonia Resilient & Ready

May 21–23, 2018

Azure Part 2 - Cloud Agility with ZVR

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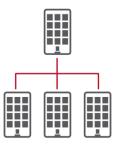


DigitalTransformation

DVDs > Streaming Video

Distributing Content > Producing Content

Netflix- Then



DVD Model

- Managing warehouse utilization
- Physical distribution costs

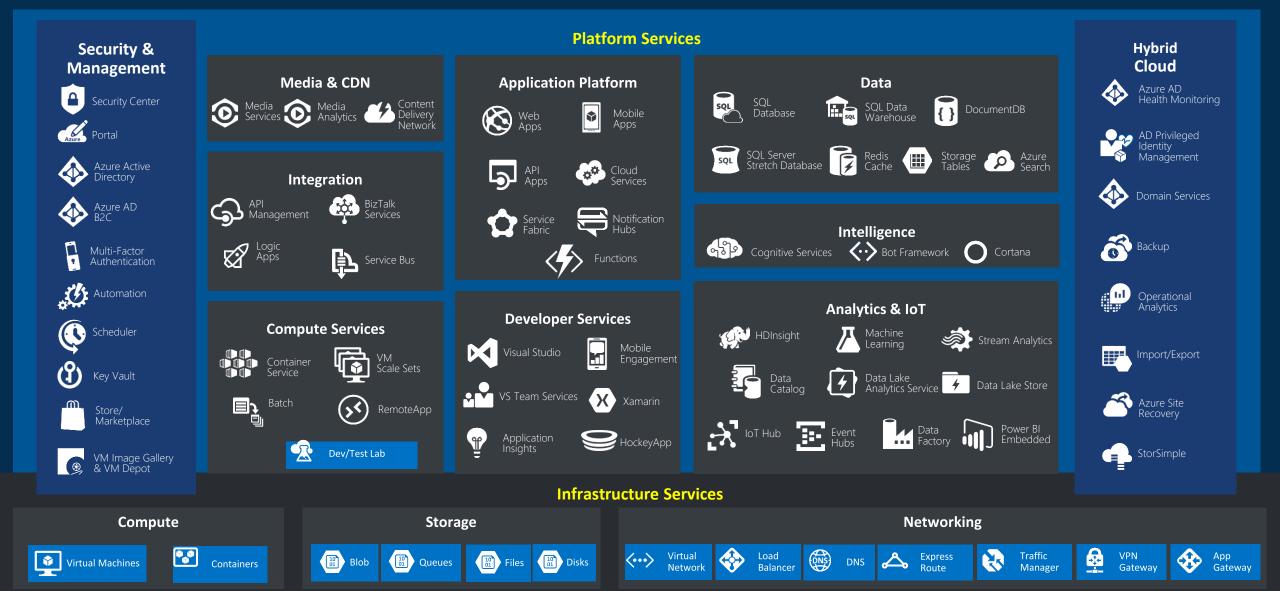
Netflix- Now



Streaming Model

- Managing website & bandwidth costs
- Cloud

Architecture



Datacenter Infrastructure (50 Regions, 46 Online)

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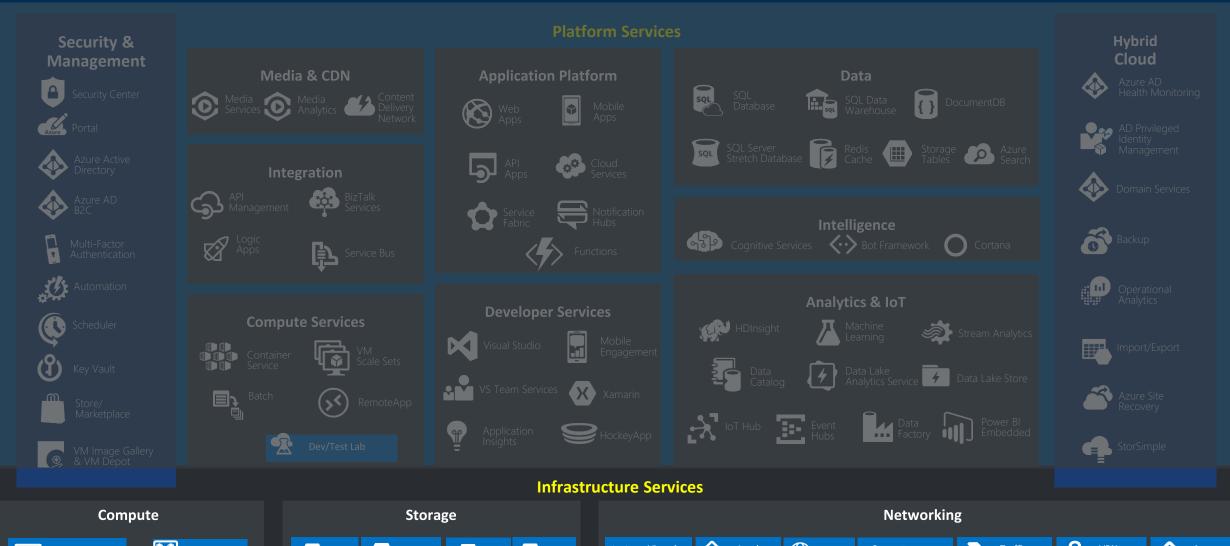
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Datacenter Infrastructure (42 Regions, 40 Online)

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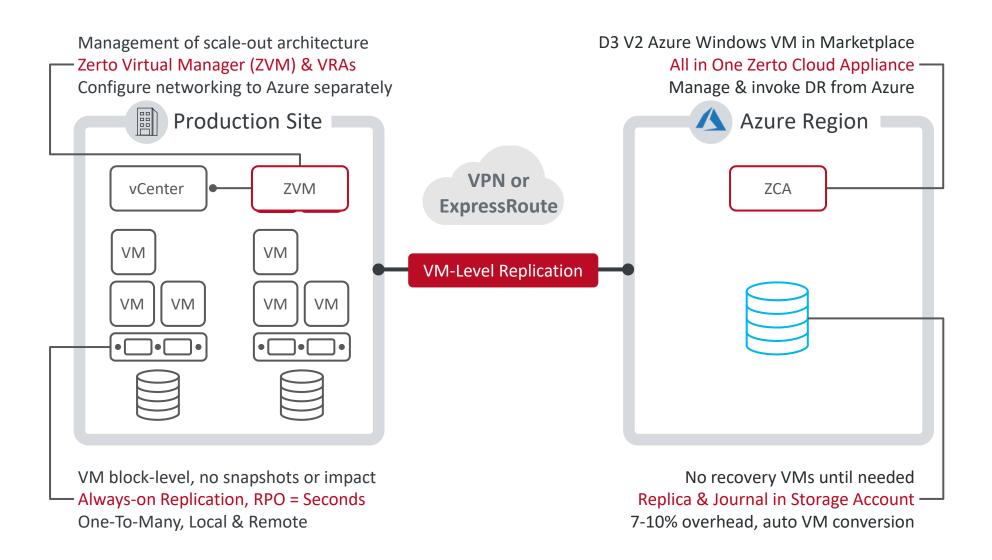
Azure Limits

Virtual Machines	Default	Max
VM's per subscription, per region	10000	10000
VM total cores per subscription	20	varies
VM per series (Dv2, F, etc) cores per subscription	20	varies

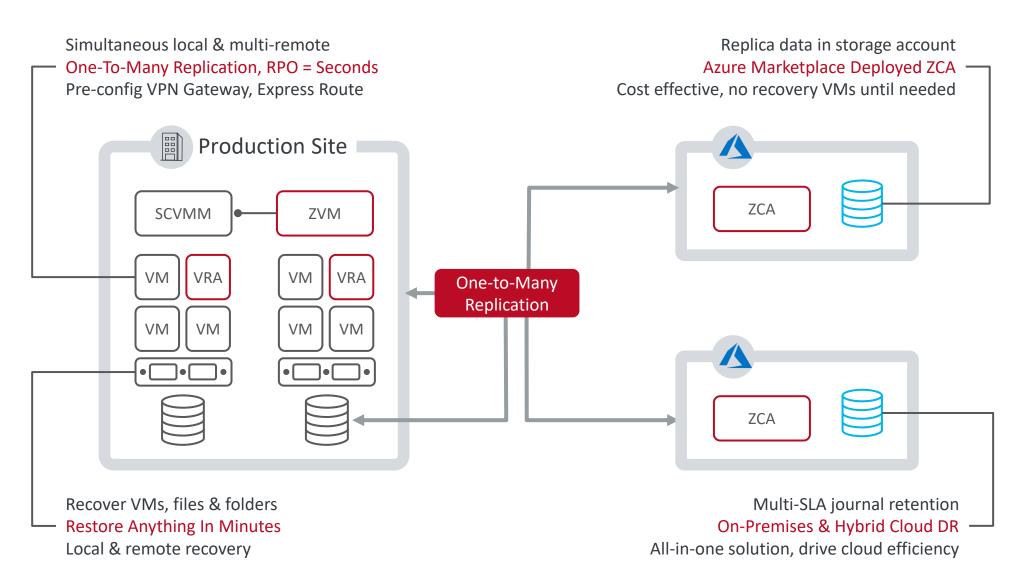
Storage	Default	Max
Storage Accounts per region per subscription	200	250
Storage account capacity	500TB	varies
Maximum request rate (IOPs) per storage account	-	20k
Resources per deployment	800	800

Networking (ARM)	Default	Max
VNets	50	500
VNet peerings per VNet	10	50
Public IP address (dynamic)	5	varies

Powerful DR and Migration to Microsoft Azure

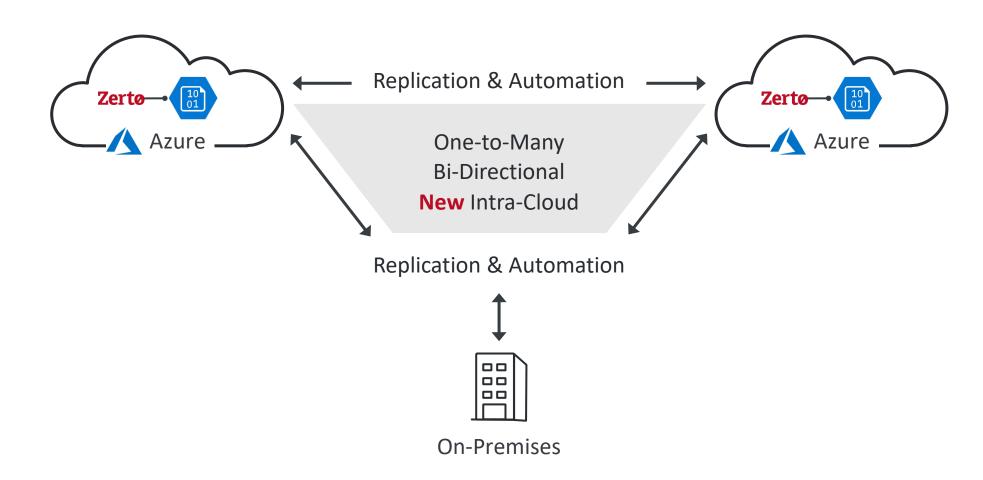


Scalable DR Solution to Microsoft Azure



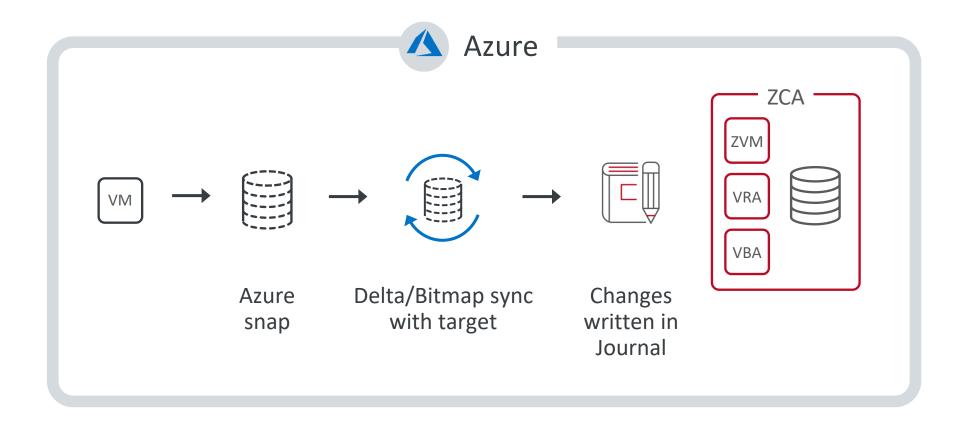
Any2Any: Microsoft Azure

Azure-to-Azure



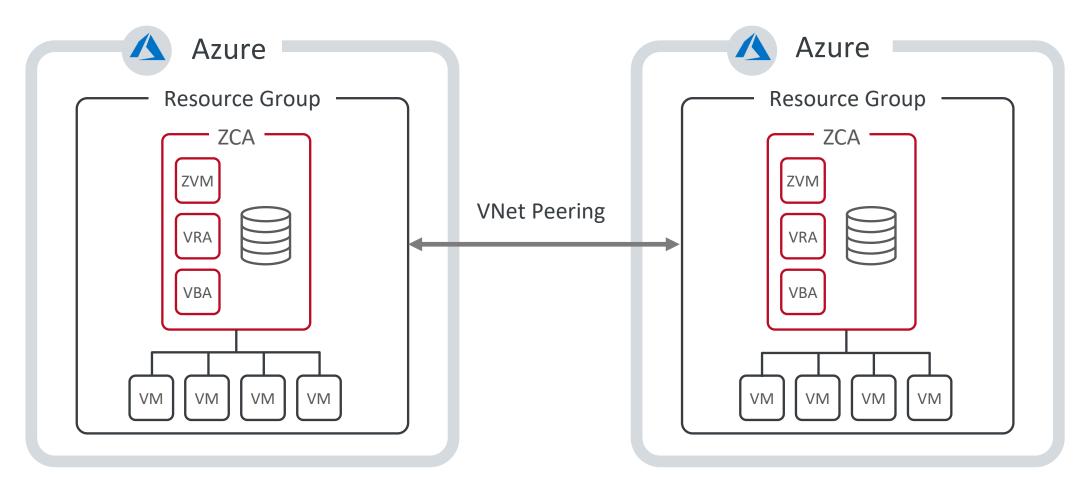
Any2Any: Microsoft Azure

Azure-to-Azure



Any2Any: Microsoft Azure

Azure-to-Azure



Deployment

Simple. Really Simple.

Deployment Options | Quickstart Templates | Azure Marketplace





Tips

- Request more cores → Support Ticket
- More VPGs with fewer VMs in the VPGs.
- Monitor the ZCA Performance
 - Azure Analytics are great for this
 - Note High memory consumption alone is not indicative of a problem
 - High CPU = 80%+ > 20 minutes
 - Network Throughtput
- Scale Out/Up for constrained system resources (\$)
 - Deploy another ZCA
 - CPU high? Upgrade the ZCA to a larger instance

Tips

- Public cloud RTO's are longer than On-Premises RTO's
 - ZVR requires writing journal data to the target disk before the recovery VM can be powered on. This is called "promotion" & is different than hypervisor-based target sites, where FO can take place without promoting the data.
 - Set the expectation first. Start with 1 hour RTO and build from there.
 - Over 2 hours? Reduce the Configured History to the minimum value that is acceptable. Lower value = faster RTO
 - Alternatively, failover to older checkpoint. Reduces the number of journal checkpoints necessary.
 - Support 'tweak'

Deployment Demo

Failover Demo

"It just works like Zerto"



This session is part of the Zerto Azure Specialist Certification

Doing the certification?

Enter **AgilitywithAzure** in the "test" on myZerto University to receive credit for this session.

Next step for certification

Complete the lab: Up and Running with ZVR for Azure

