2017

Global Azure BOOTCAMP

autoexec.gr

2017 Global Azure BOOTCAMP

Protect your data with a modern backup, archive and disaster recovery solution

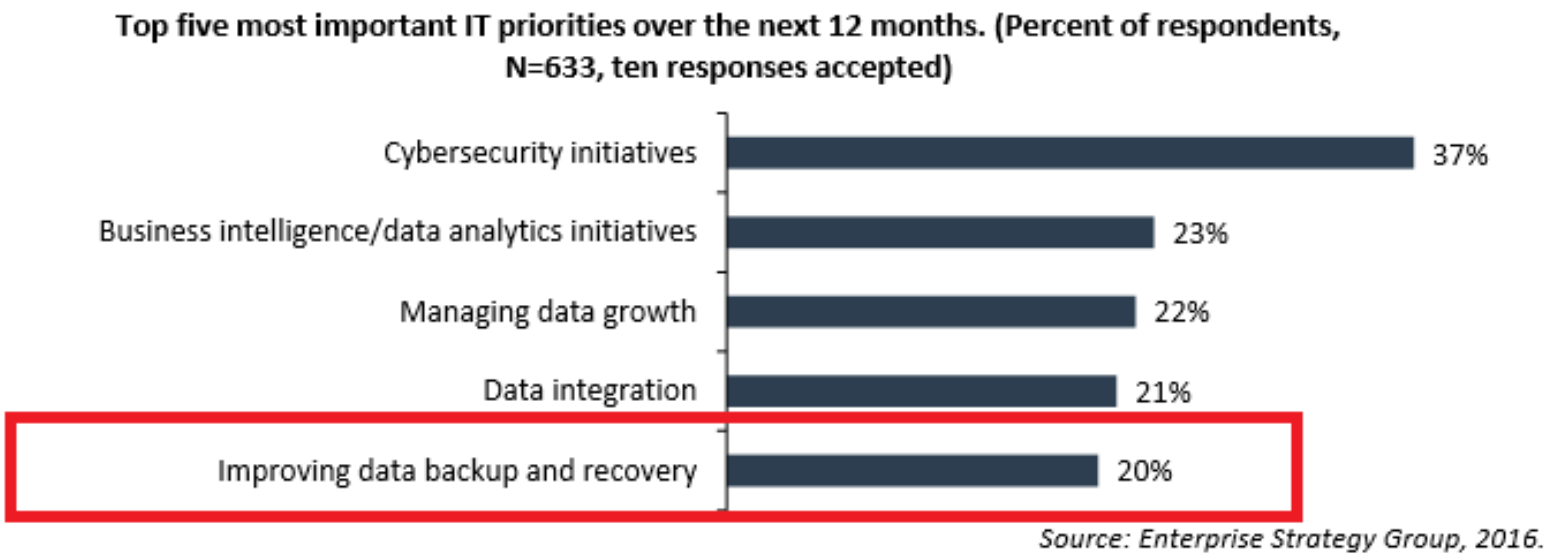
Pantelis Apostolidis
Solution Architect @ Office Line SA

pantelis@e-apostolidis.gr
Blog: e-apostolidis.gr
Forum: autoexec.gr
MCSE: Private Cloud & Infrastructure
MCSE: Productivity

Microsoft CERTIFIED Solutions Expert
Microsoft CERTIFIED Solutions Associate
Microsoft CERTIFIED IT Professional
Microsoft CERTIFIED Technology Specialist
Microsoft CERTIFIED Professional
Microsoft Specialist
Microsoft CERTIFIED Systems Administrator

Data protection continues to be a key IT priority

Figure 1. Top Five IT Priorities for 2016



Data protection is more critical than ever

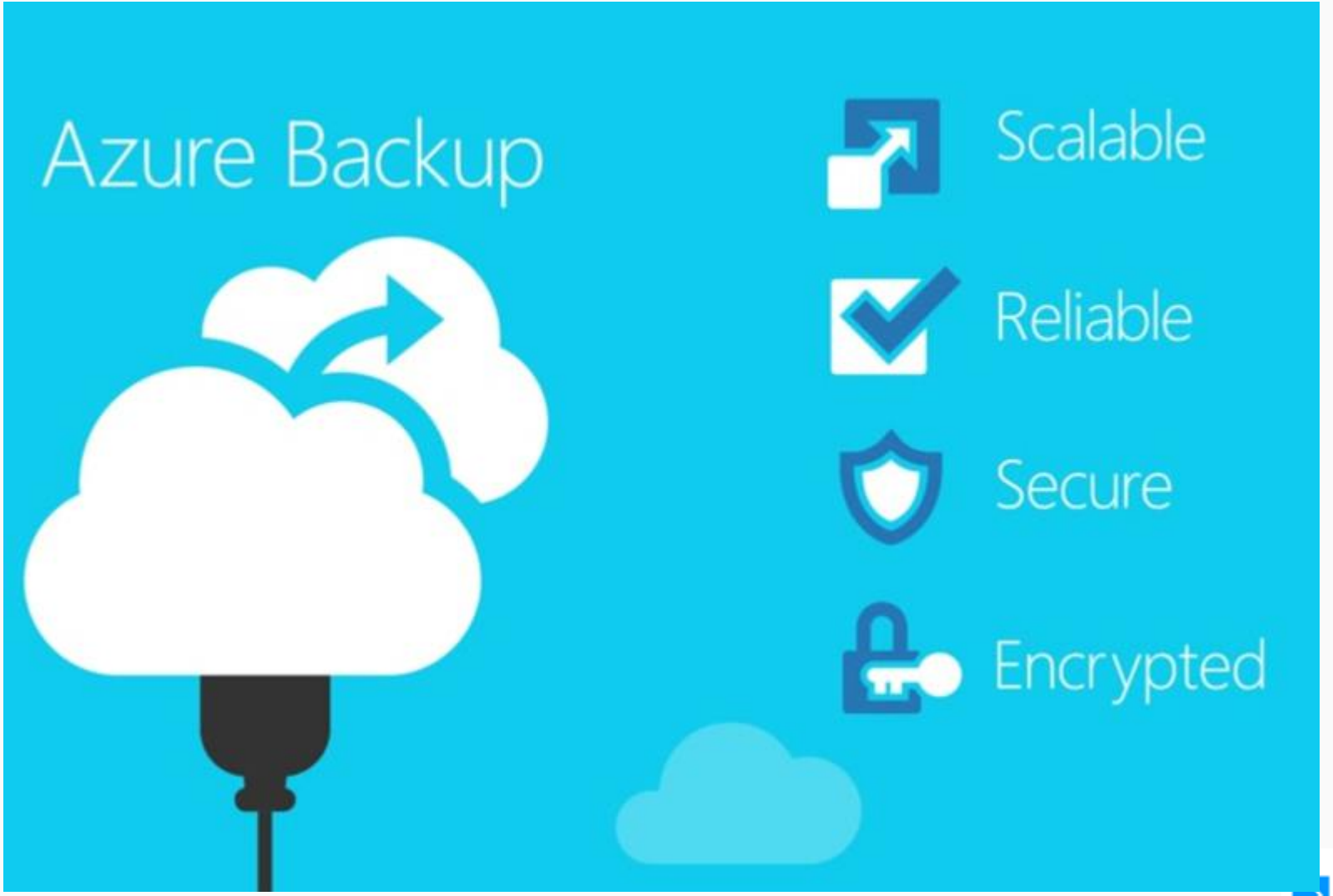
Last year, ransomware attacks grew at a blistering pace. In total, SonicWall reports ***638 million***. That's *more than 167 times* the number of attacks in 2015.

3 – 2 – 1 Backup rule

Azure Backup & Azure Site Recovery

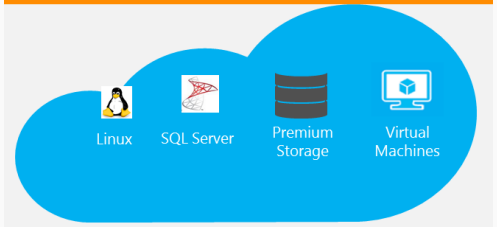
Operations Management Suite—Protection & Recovery or Stand Alone

autoexec.gr


Azure Backup
Scalable
Reliable
Secure
Encrypted

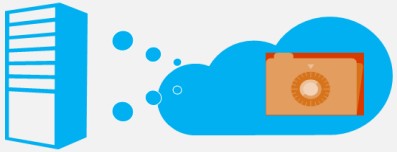
Data protection with Azure Backup

Cloud Backup



Backup of Cloud Workloads
Azure VM Backup
Azure SQL Backup

Hybrid Cloud Backup



Backup to Cloud
Hyper-V and VMware Protection
Offsite and Long Term Retention
Protection from Malware

- [ ] Files and folders
- [ ] Hyper-V Virtual Machines
- [ ] VMware Virtual Machines
- [ ] Microsoft SQL Server
- [ ] Microsoft SharePoint
- [ ] Microsoft Exchange
- [ ] System State
- [ ] Bare Metal Recovery

Recovery Services Agent | Azure Backup Server | System Center DPM | Azure Backup

Azure Backup

- ✓ Pay-as-you-go
- ✓ No infrastructure for Backup
- ✓ No Storage egress charges
- ✓ Single management pane
- ✓ Self-service

Beyond Backup

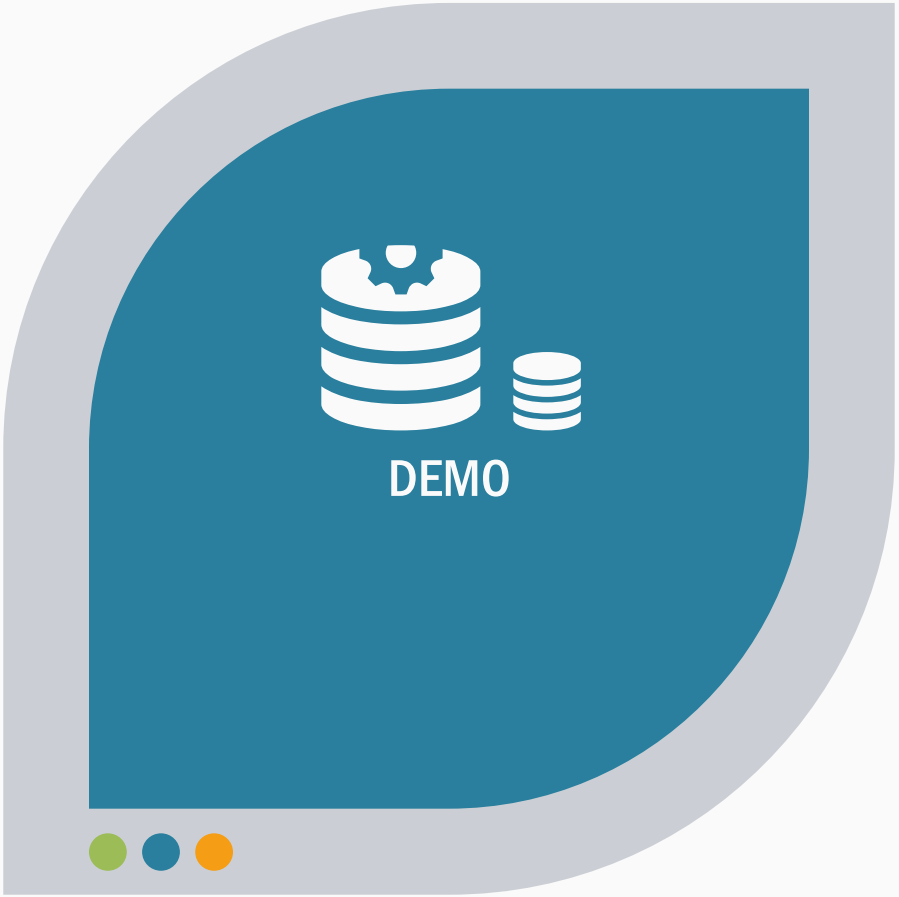
- ✓ First-class integration with Azure services
- ✓ Rich monitoring
- ✓ Insights and Analytics
- ✓ Leverage Azure identity and security services

Pay-As-You-Go

Infinite Scale

Freedom from Infrastructure

Azure Backup



Why Business Continuity/DR?

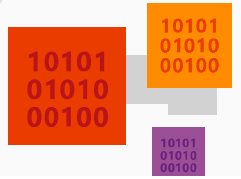
Loss of Data & Service	Cost of Disruption	Brand & Equity	Compliance
Organizations experience **4+** disruptions each year	Average cost of the disruption is **$1.5M/hour**	Loss of **reputation** is often irreparable	Clients want to partner with orgs that have BCDR in place
Recovery times range from **1hr** to **9hrs**	**4 in 10** businesses do not reopen after a major disaster	Customer trust and brand severely impacted	Protection & recovery key tenet in most compliances

Downtime = Loss of business to competition or closure

* Source: EMC Digital Universe with Research and Analysis by IDC, 2014

Source: *IDC: Measuring Cost of Downtime and Recovery Objectives Among U.S. Firms, IDC QuickPoll Survey July 2013 and Storage User Demand Study 2013*

Source: Federal Emergency Management Agency (FEMA)



2017 Global Azure BOOTCAMP

autoexec.gr

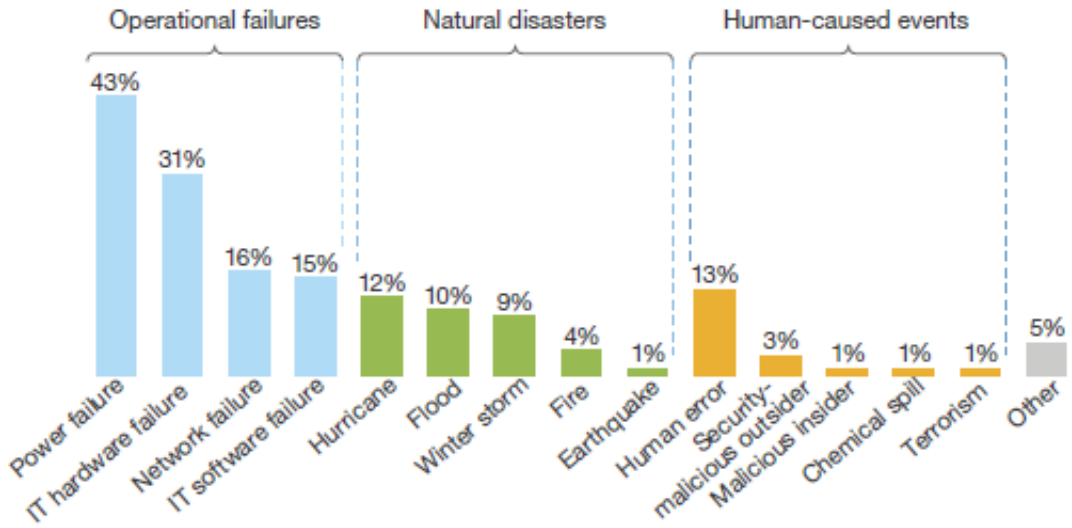
Most common cause for DR is Not natural disasters

2017 Global Azure BOOTCAMP

Figure 5 Top Causes Of Business Downtime And Impact Of Disruption

5-1 Top causes of downtime are mundane events, not disasters

"What was the cause(s) of your most significant disaster declaration(s) or major business disruption?"



Base: 94 global disaster recovery decision-makers and influencers
(does not include "don't know" responses; multiple responses accepted)

autoexec.gr

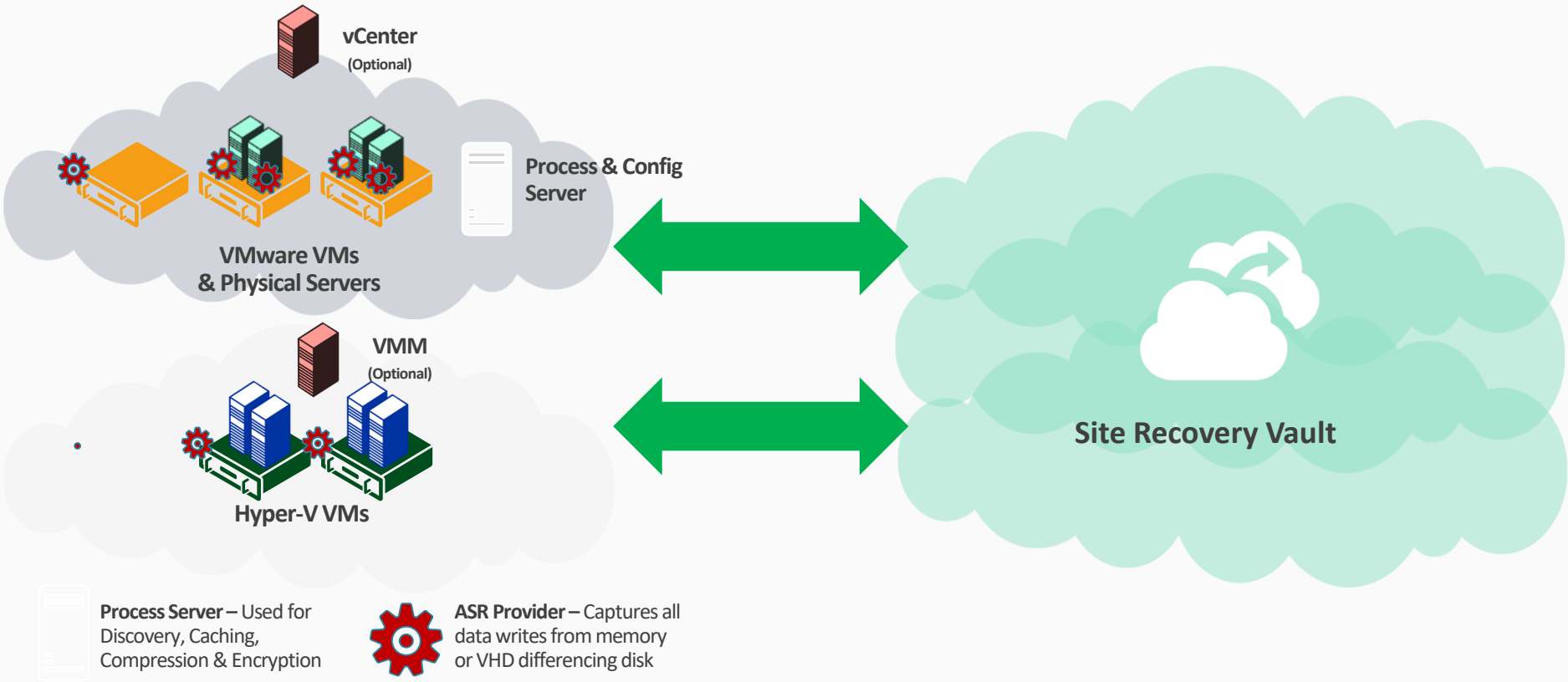
ASR: Multiple Scenarios, One Solution

Disaster Recovery | Migration| Dev/Test

- ✓ RPO of seconds and RTO of minutes
  - ✓ 30 seconds, 5 mins, 15 minutes
- ✓ Planned and unplanned failover
- ✓ Orchestrated Recovery Plans
- ✓ No impact DR Drills with Test Failover
- ✓ Migrate to Azure from anywhere
- ✓ Create on-demand test copies in Azure

2017 Global Azure BOOTCAMP
autoexec.gr

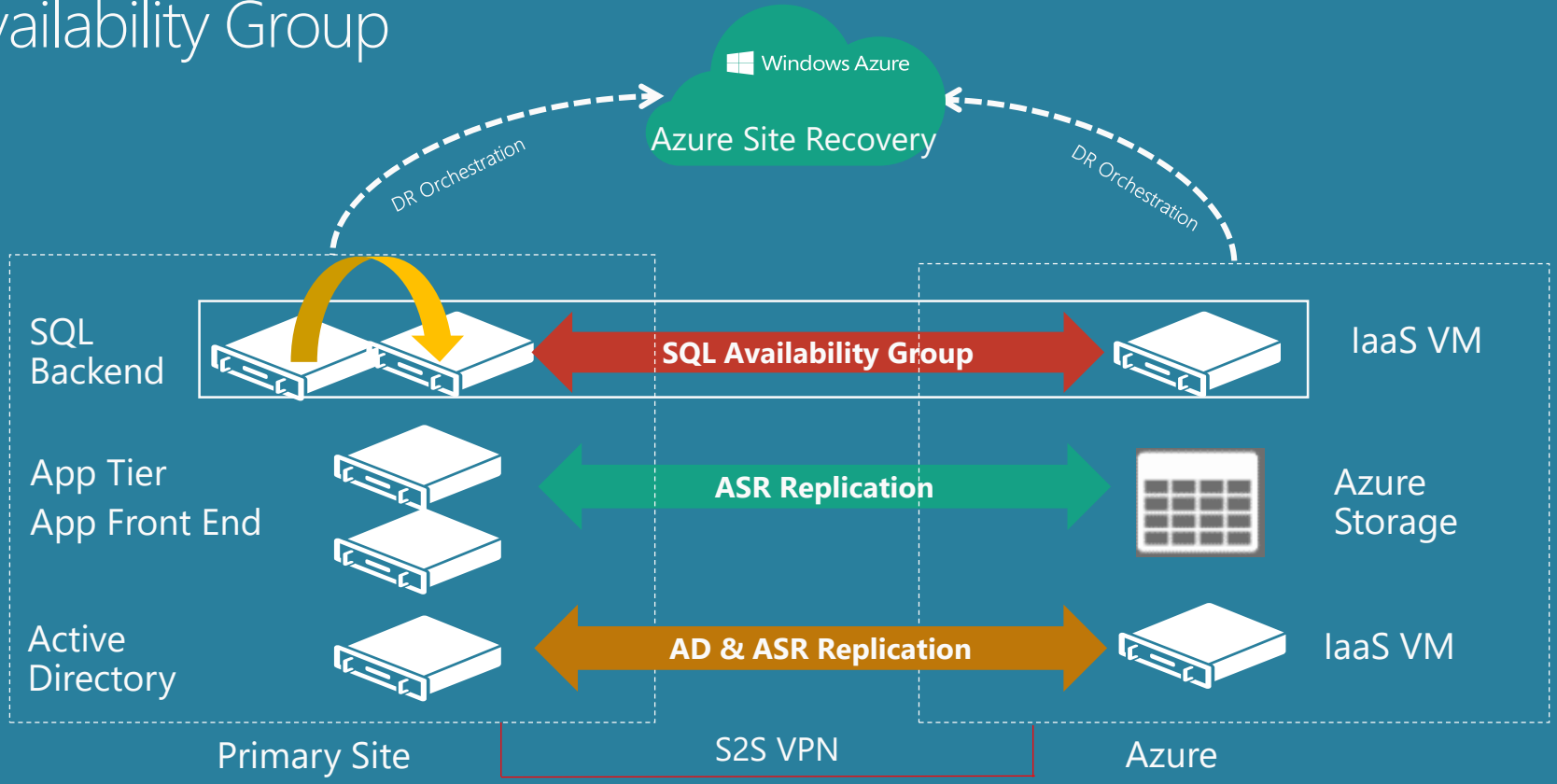
Azure Site Recovery



Process Server – Used for Discovery, Caching, Compression & Encryption

ASR Provider – Captures all data writes from memory or VHD differencing disk

ASR Scenario - with AD Replication and SQL Availability Group



Above shows DR to Azure however same scenario is applicable for On Premise to On Premise DR.

Azure Site Recovery

- ✓ Pay-as-you-go
- ✓ No infrastructure for DR
- ✓ No Storage egress charges
- ✓ Single management pane
- ✓ Self-service

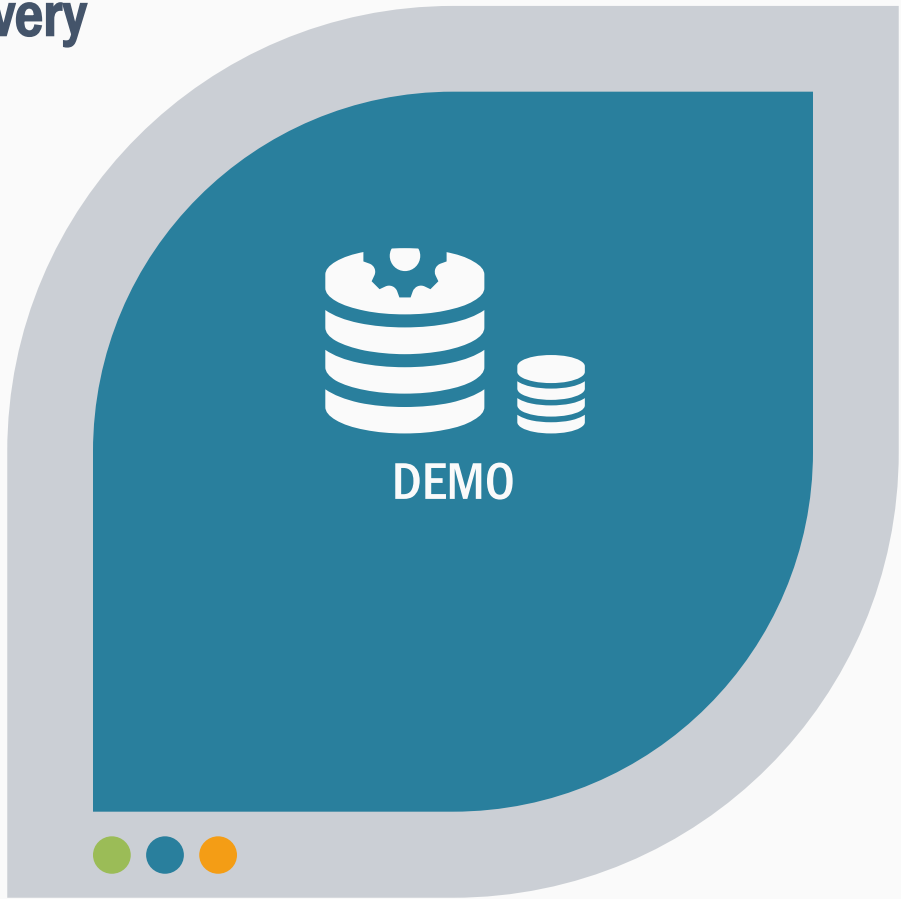
- ✓ First-class integration with Azure services
- ✓ Rich monitoring
- ✓ Insights and Analytics
- ✓ Leverage Azure identity and security services

Pay-As-You-Go

Infinite Scale

Freedom from Infrastructure

Azure Site Recovery



Pantelis Apostolidis
Solution Architect @ Office Line SA

pantelis@e-apostolidis.gr
www.e-apostolidis.gr
@papostolidis

2017 Global Azure BOOTCAMP

Thank You

Don't forget to evaluate: https://aka.ms/cc9cf1

autoexec.gr