
[CHICAGO] CODER CONFERENCE
INNOVATION. THOUGHT LEADERSHIP. TRAINING.
Leveraging Microsoft ASR for Disaster Recovery
James Szubryt - Accenture
June 27, 2017 • Room #406

Session Goals

- Understanding of DR and DRaaS
- Gartner's Magic Quadrant for DRaaS Solutions
- Microsoft Azure Site Recovery

About me

- Application Tech Arch Senior Manager @ Accenture in Chicago
  - Disaster Recovery Lead
  - Modern Engineering Lead
  - Next Gen Cloud Architect
  - Development Architecture Lead
  - Automated Testing Lead
- Microsoft ALM MVP since 2013
- Microsoft ALM Ranger since May 2011
- Friend of Red Gate since Jan 2006
- Eagle Scout


Our Disaster Recovery Plan
Goes Something Like This...
HELP!
HELP!

Disaster Recovery

Recovering from catastrophic failure of a location that exceeds an identified acceptable time to be without key business systems.

Backups are for recovery of data. DR is for failure.

Is it applicable in the ransomware world we are in today?

DRaaS

Disaster Recovery as a Service is vendor hosted DR; 250 providers and growing.

Gartner Magic Quadrant for DRaaS from June 2016

"*From 2016 through 2020, the use of either DRaaS or IaaS to support the failover of production applications will grow by more than 200%.*" *

Gartner Magic Quadrant for DRaaS

Source: Gartner (June 2016)

Azure Site Recovery

- Available in All US Regions except DOD East & Central
- 99.9% availability
- 2 hour Recovery Time Objective (RTO)

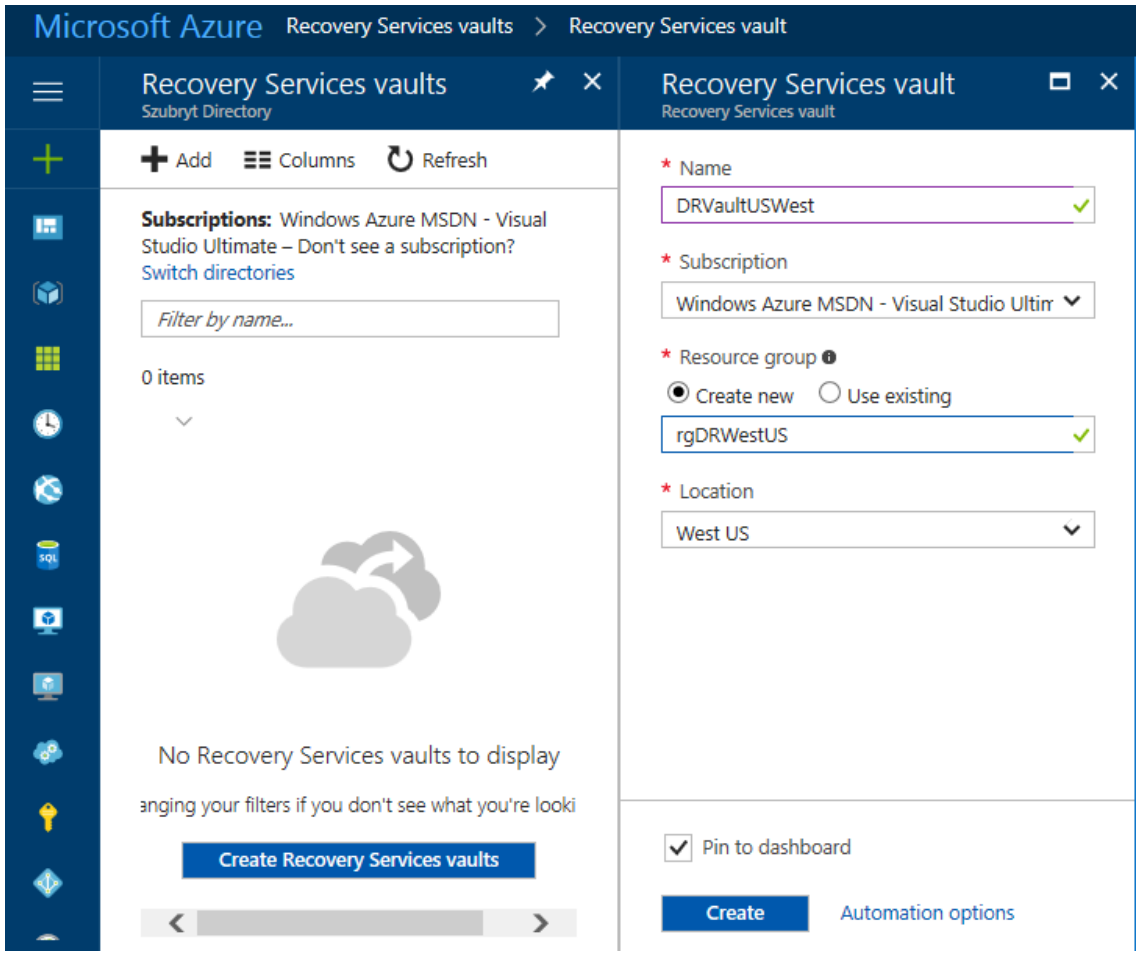
Azure Site Recovery

- **DR in the cloud:** Replicate/protect workloads running on VMs & physical servers to Azure rather than to a secondary site, eliminating cost/complexity
- **Simple approach:** Single location in the Azure portal for managing replication. Run simple failovers and failback of 1 to many servers.
- **Resiliency**: Replicated data is stored in Azure storage; when failover occurs, Azure VMs are created based on the replicated data.
- **Replication performance:** Continuous replication for Azure & VMware VMs; reduced recovery time objective (RTO)
- **Application consistency:** Configure application-consistent snapshots for the recovery points.

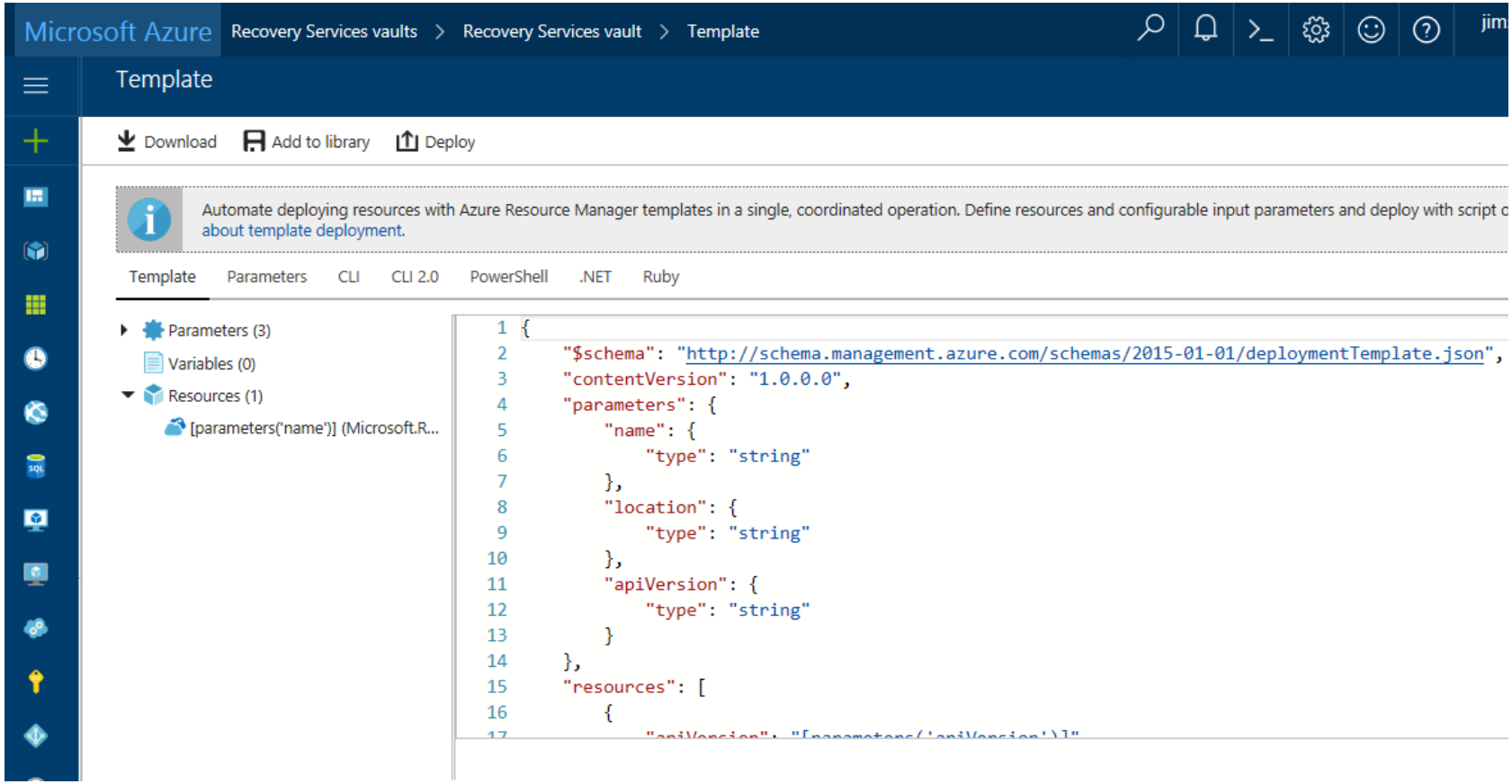
Azure Site Recovery

- **Testing without disruption:** Run test failovers for DR drills without affecting production environments and the ongoing replication.
- **Flexible failover & recovery:** Run planned failovers for expected outages with no data loss or unplanned failovers with minimal data loss
- **Custom recovery plans:** Recovery plans to model & customize failover and recovery of multi-tier apps.
- **Multi-tier apps:** Recovery plans for sequenced failover/recovery customize how each group fails over and starts up.
- **Network management:** Simplified application network requirements, including reserving IP addresses, configuring load-balancers & integrating Azure Traffic Manager.

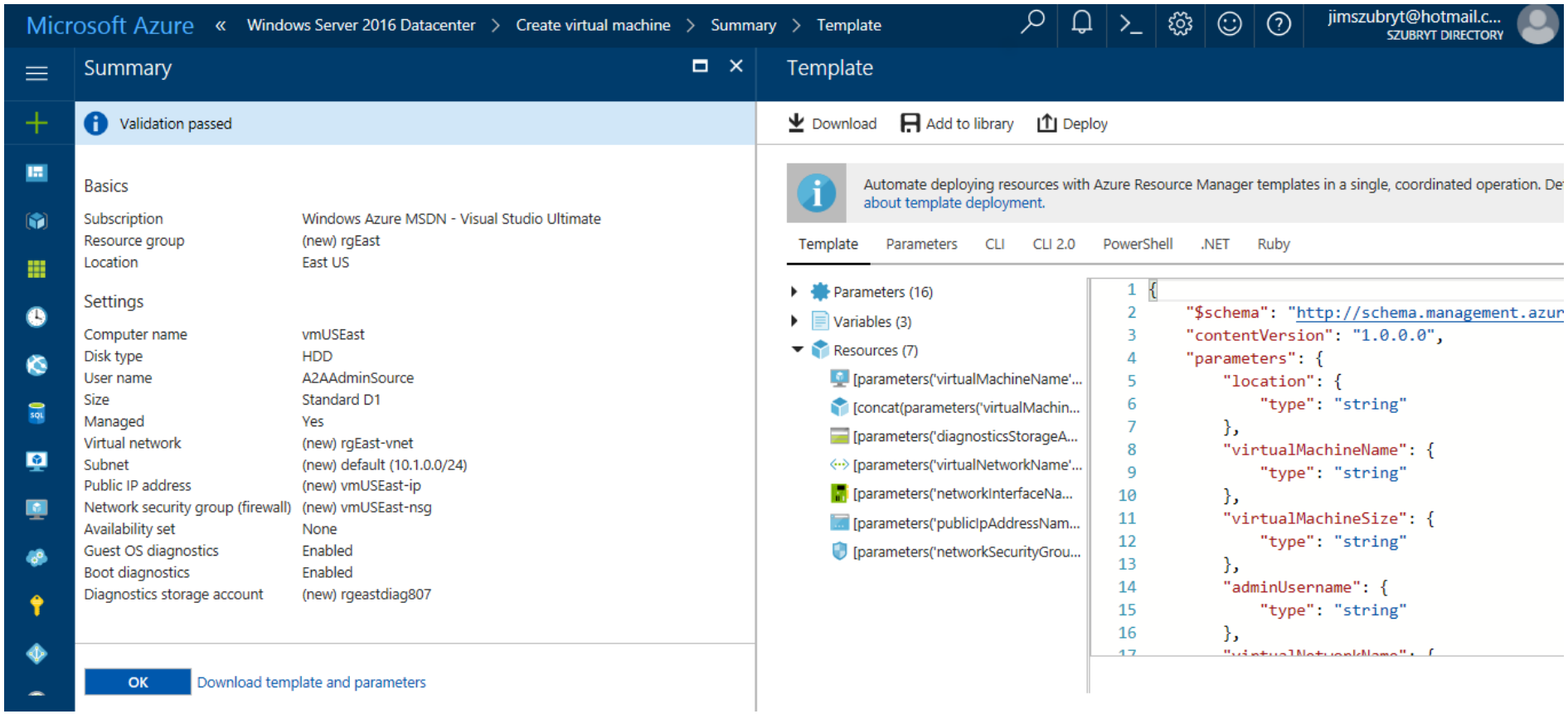
Setting Up A Vault



Setting Up A Vault



Setting Up A VM



THANK YOU!

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Leveraging Microsoft ASR for Disaster Recovery

Track #9 • 2:30pm • Room #406

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References

- Gartner's Magic Quadrant for DRaaS

https://www.gartner.com/doc/reprints?ct=160617&id=1-39NNEX2&st=sb

- Microsoft's What is Site Recovery

https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview