

Migrating SAP to the cloud: Do's and Don'ts

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Infrastructure Design Considerations

- **What is going to be my sizing and how does it match with offerings?**
 - Check the cloud sizing guidelines (SAP Notes 1928533 for Azure)
- **What is going to be my network design strategy?**
 - VNET design
 - Cloud access method (Express routes, S2S VPN)
 - IP addressing
- **What is going to be my storage design?**
 - IOPS and throughput consideration
- **What is going to be my compute sizing?**
 - Differs for DB layer and application layer

Interface Latency Design Considerations — Questions To Be Answered

- What are the critical interfaces connecting to the systems moving to cloud?
- What are SAP systems that are closely connected with each other?
 - Examples:
 - SAP APO/SCM <-> SAP ECC
 - SAP ECC <-> SAP BW
 - SAP HANA side car <-> SAP BW and SAP ECC
 - Vertex <-> SAP ECC
- Understand the impact and take required measures
- Recommendation ... singlecloud

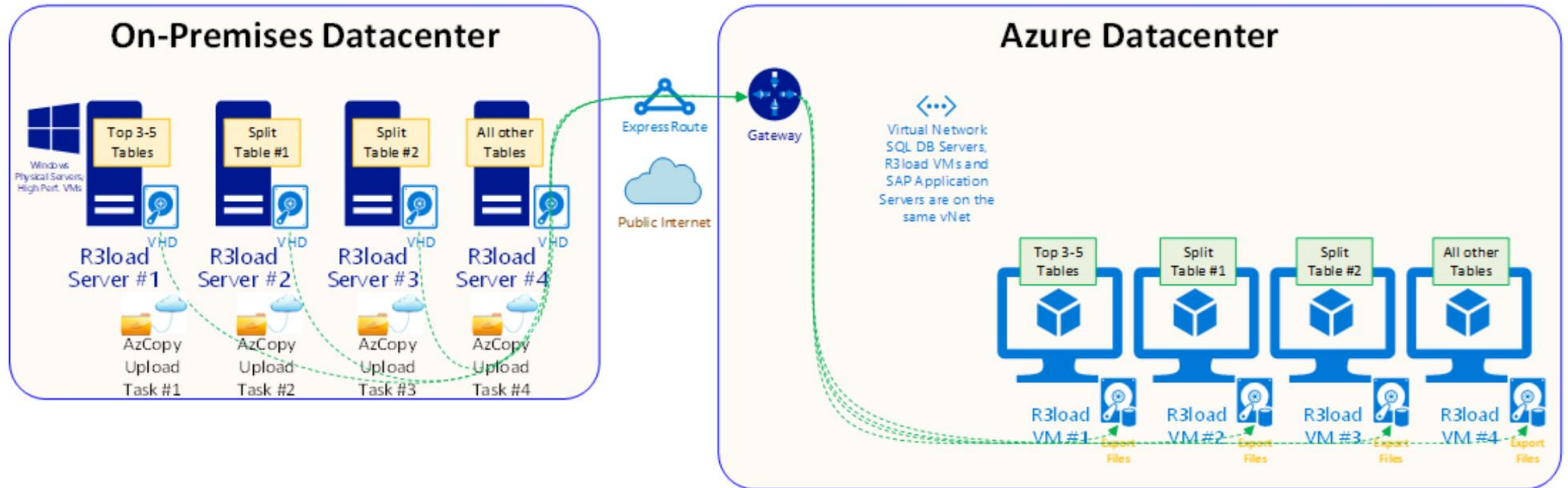
Migration Methodologies

Homogenous migrations	Heterogenous migrations
Backup/Restore	SAP heterogenous system copy
Database log shipping	Database Migration Option (DMO) to HANA using System Move
HANA system replication	Downtime minimized migration

Cloud Migration Learnings

- Understand the caveats (such as network bandwidth configuration and routing) with network design for system refreshes, etc.
- Ensure to have appropriate disk configuration
- Compute size does not just dictate vCPUs and Memory, in Azure, it also limits network and storage throughput
- Mock migration runs
- HANA scale-out migrations using HSR – consideration
- As much possible confine to homogenous moves
- Decide on cloud region strategy, not all services are available in all regions
- Have consistent cloud resources naming strategy

Cloud Migration learnings – Multiple export / import servers



Source: <https://blogs.msdn.microsoft.com/saponsqlserver/2018/04/10/very-large-database-migration-to-azure-recommendations-guidance-to-partners/>

Customer examples and resources

Large Australian
Energy Company
Modernizes SAP
Applications &
Moves to Azure



4 TB Oracle / AIX platform
migration to M-Series
HANA on Azure (In-flight)
- Using DMO with system
move option Public Cloud

**SAP Migration
whitepaper**

Wrap-up

