

Infrastructures or Azure Workshop

- Traffic Manager
- Storage Files Share



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DevOps





Workshop 1: Traffic Manager

Timeframe

30 minutes

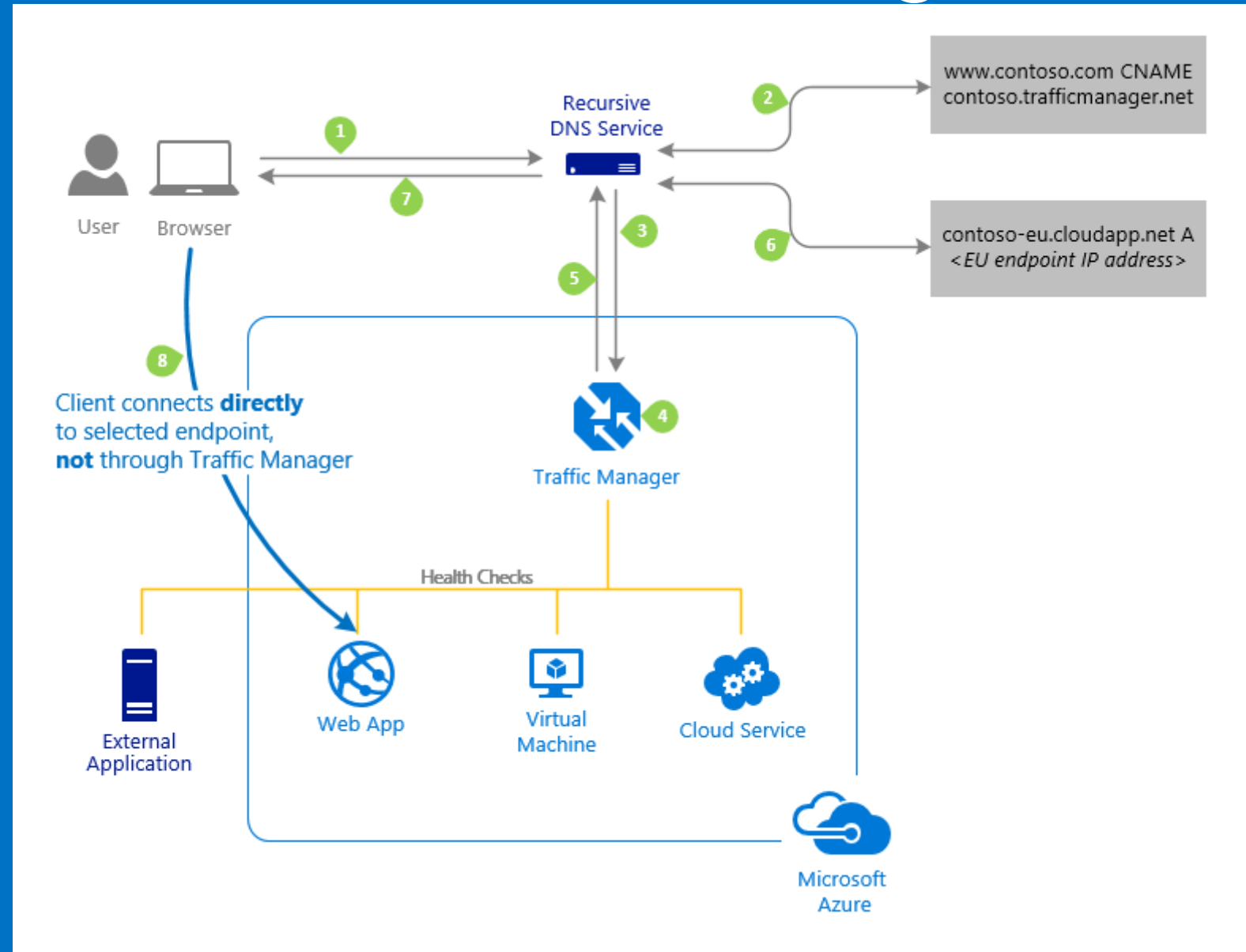
Traffic Manager: DNS-based Load Balancing



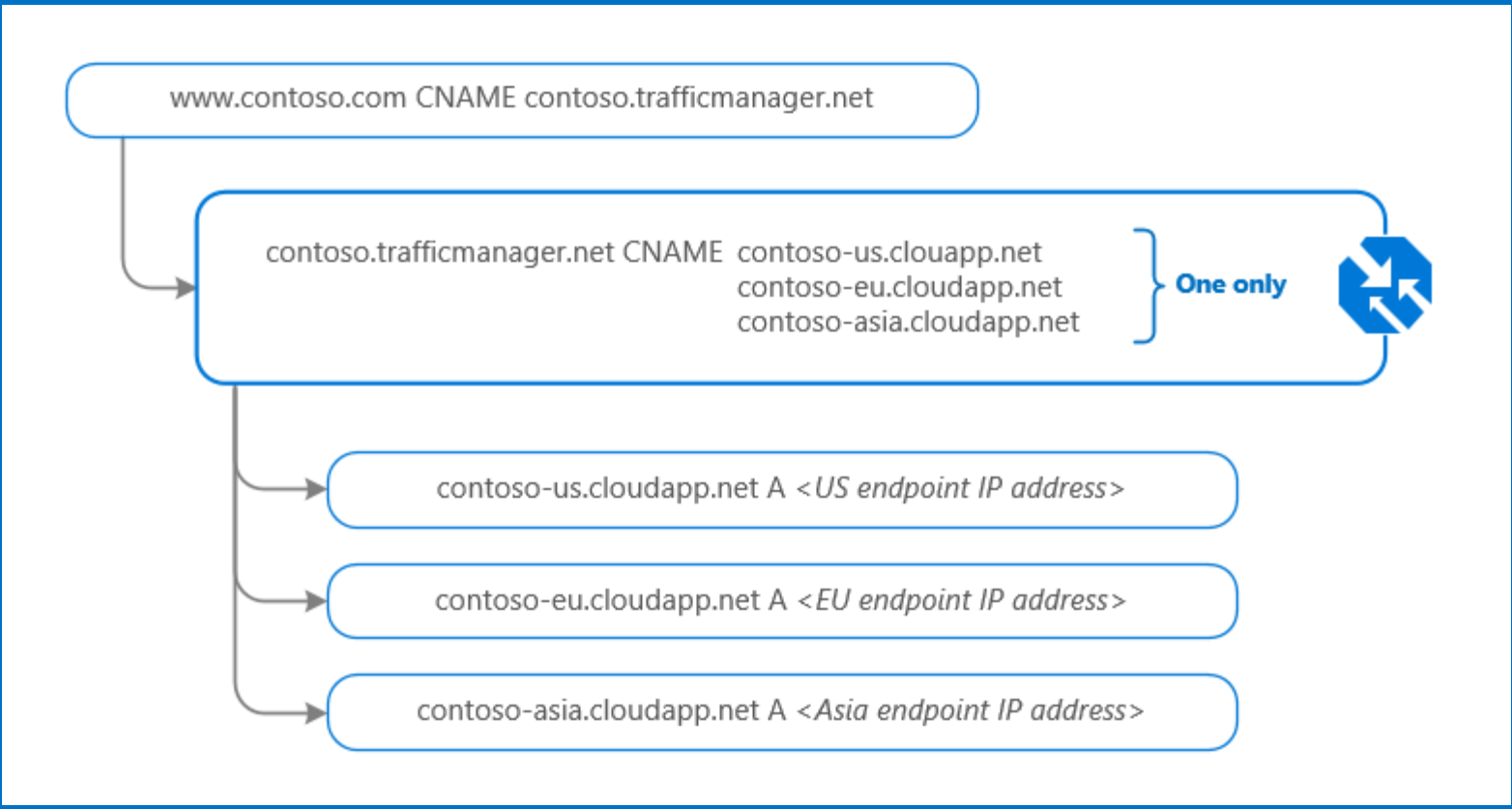
Traffic Manager - DNS Based Load Balancer

- Four Routing Methods
 - Performance, Weighted, Priority, Geographic
- Map your domain name to yourservice.trafficmanager.net with CNAME
 - contoso.com -> contosotm.trafficmanager.net
- Map endpoints (Azure, external, or nested) in globally distributed data centers to Traffic Manager Profile.
 - contoso.eastus.cloudapp.azure.com
 - contoso.westus.cloudapp.azure.com
- Built in HTTP Health Probes for High Availability

How clients connect using Traffic Manager

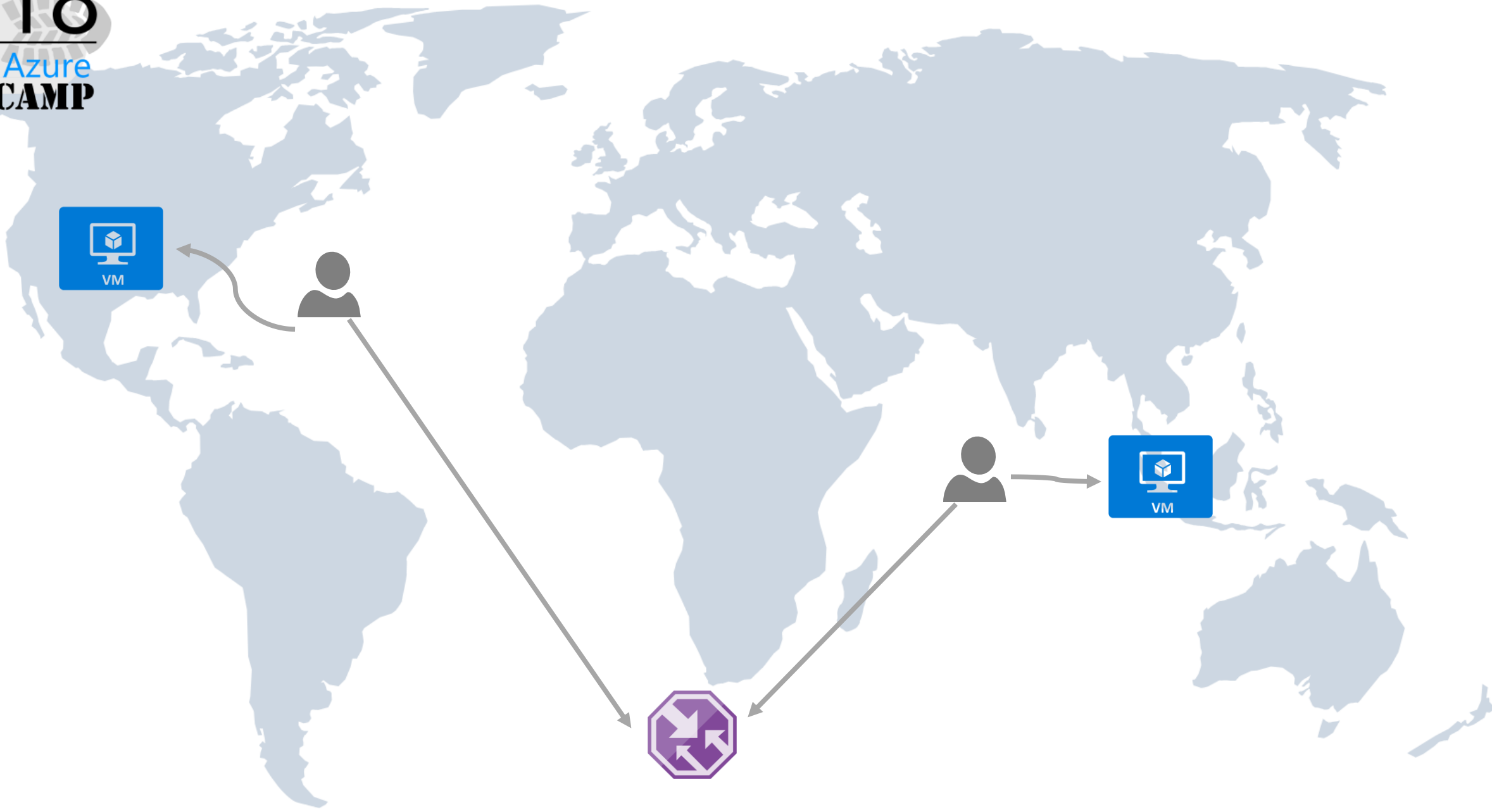


How Traffic Manager works



2018

Global Azure
BOOTCAMP





Workshop 2: Storage Files Share

Timeframe

30 minutes

Azure Storage Services



Disks

Persistent disks for Azure IaaS VMs

Standard Storage Disks: Magnetic disk based, low IOPS, moderate latency

Premium Storage Disks: SSD based, high IOPS, low latency

Managed Disks

Files

Fully Managed File Shares in the Cloud

SMB and REST access

“Lift and shift” legacy apps

Blobs

Highly scalable, REST based cloud object store

Block Blobs: Sequential I/O, Hot, Cool and Archive Tiers

Page Blobs: Random-write pattern data

Append Blobs

Tables

Massive auto-scaling NoSQL store

Dynamic scaling based on load

Scale to PBs of table data

Fast key/value lookups

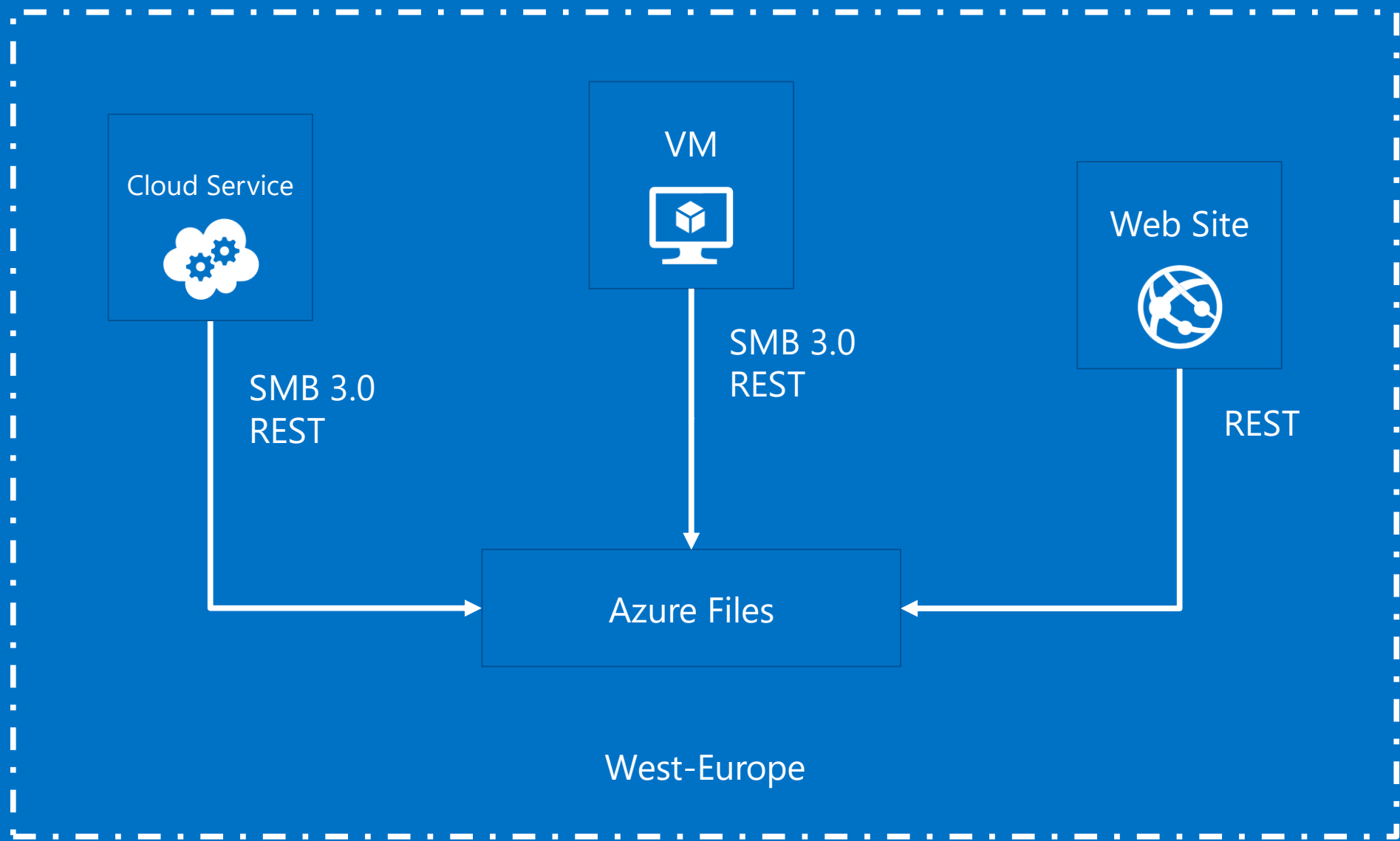
Queues

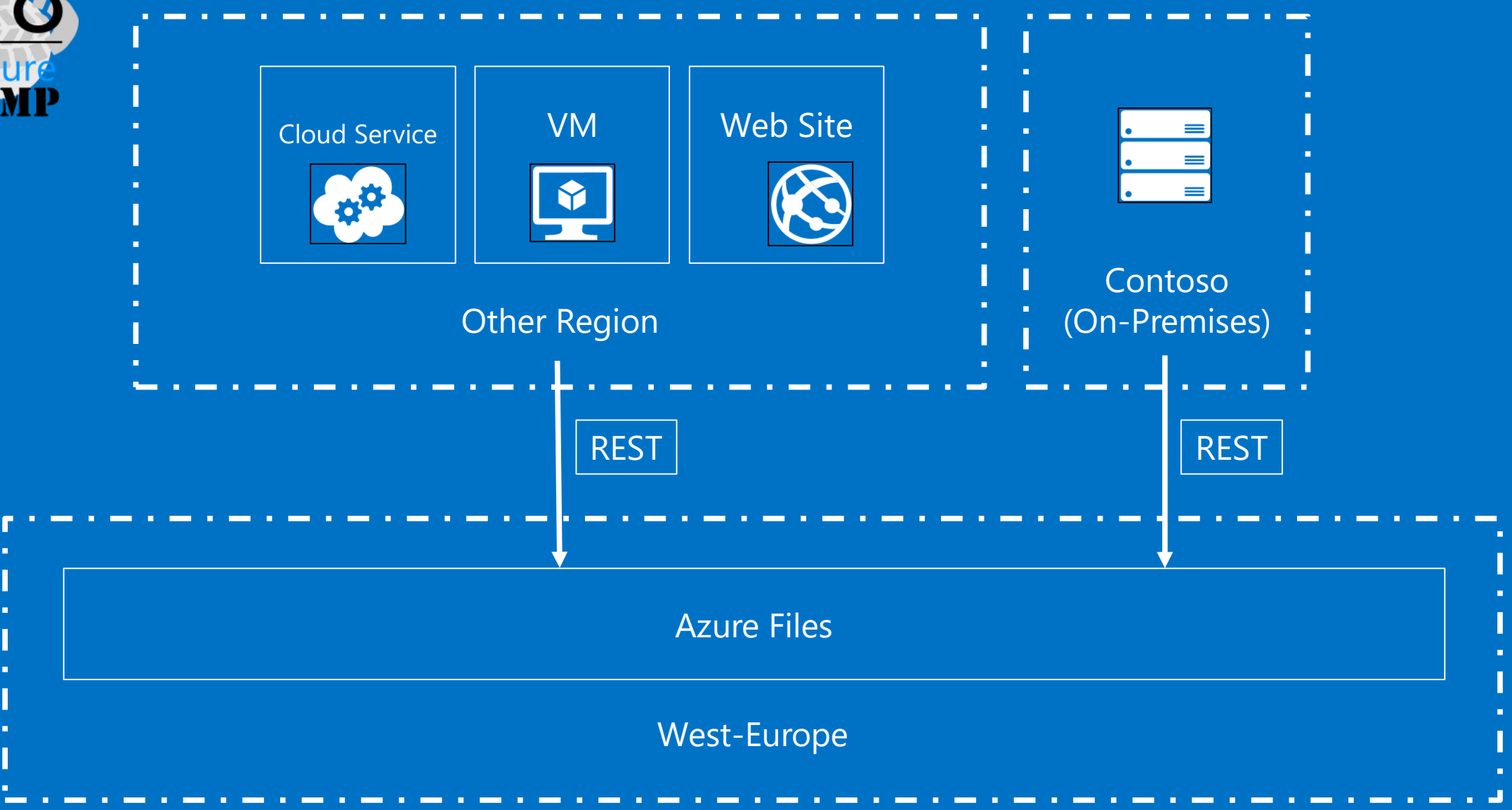
Reliable queues at scale for cloud services

Decouple and scale components

Message visibility timeout and update message to protect against unreliable dequeuers

Built on a unified Distributed Storage System
Durability, Encryption at Rest, Strongly Consistent Replication, Fault Tolerance, Auto Load-Balancing





Wrap-up

Resources

- <https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share>
- <https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview#traffic-manager-benefits>