



Azure Capacity Reservations

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Instance Reservations versus Capacity Reservations

Reserved Instance

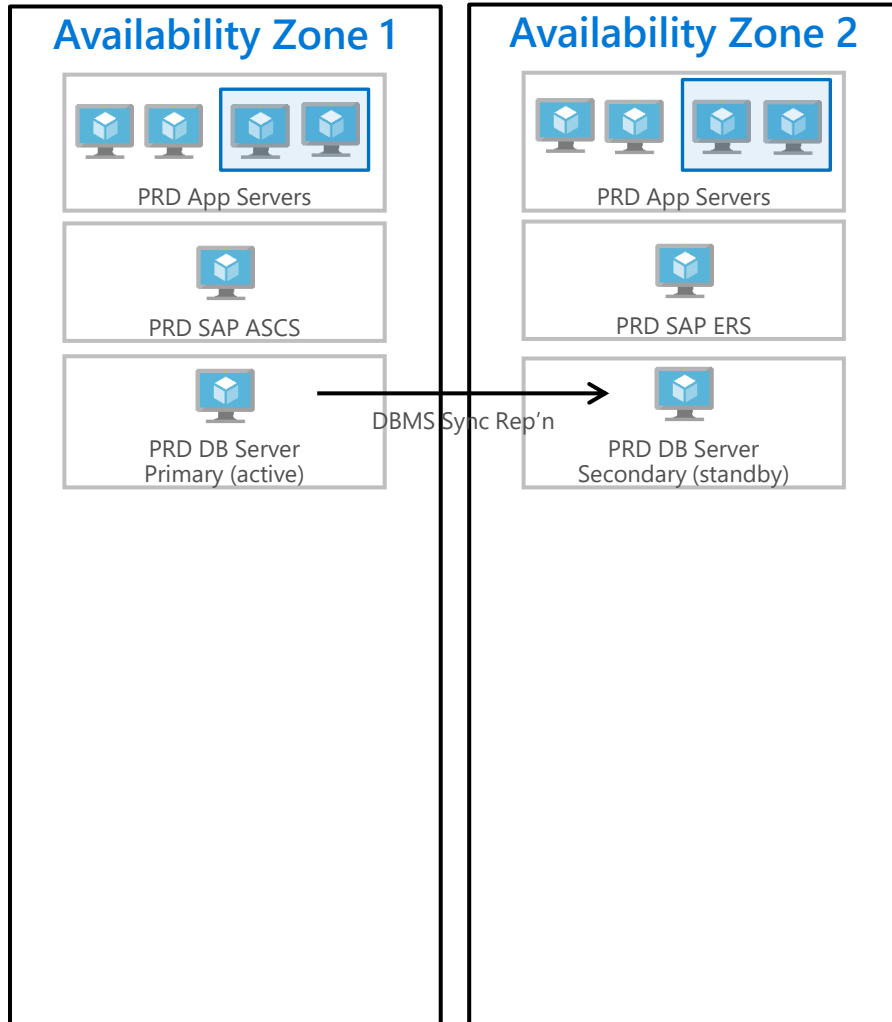
- A financial commitment for 1 or 3 years
- Reservation applies to a VM-series (or sub family for M/Mv2) – Instance flexibility
- Significant price discount
- Pay for VM whether used or not
- Capacity **not guaranteed** unless VM is allocated or running

Capacity Reservation

- Reserves capacity for a specific VM size
- Pay for VM whether used or not
- Charged either as Pay as you Go or can use Reserved Instances
- Capacity **guaranteed** whether or not a VM is allocated or running

HA across Azure AvZones

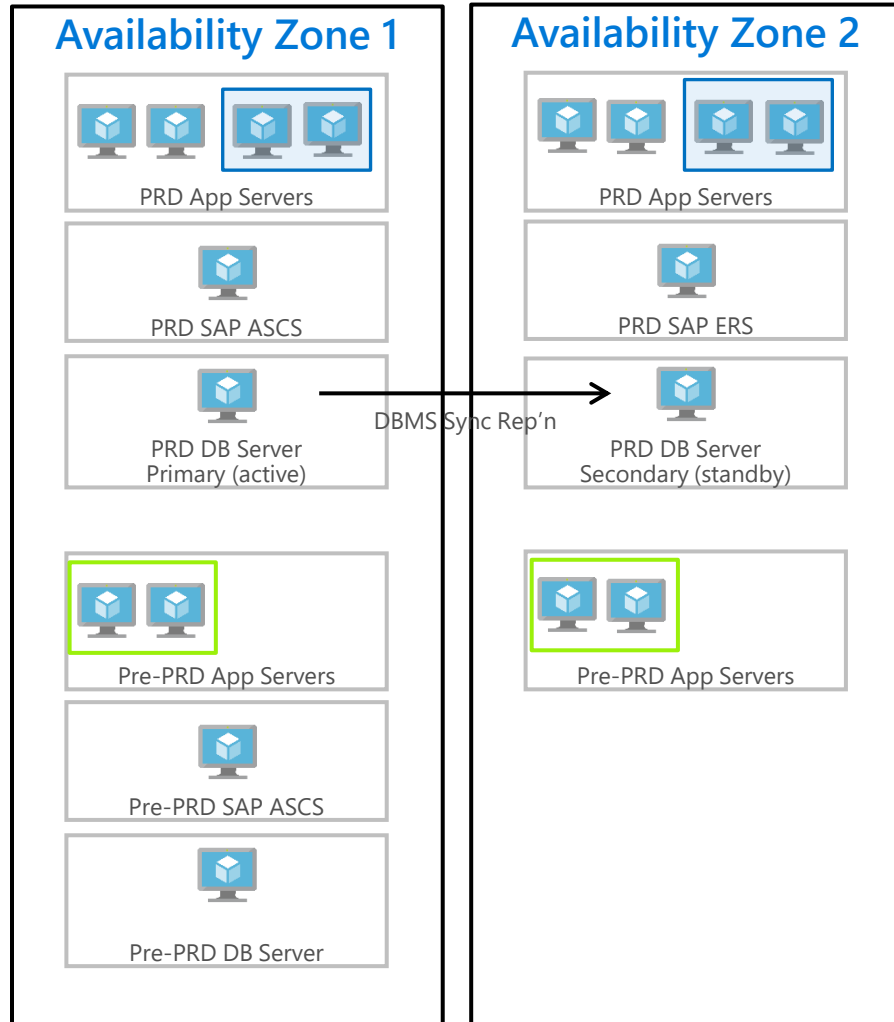
Primary Region



- App Servers split across 2 AvZones
- 50% running in each AvZone
- Other 50% provisioned but not allocated – no VM charge
- If AvZone fails bring up remaining 50% in surviving Zone
- But capacity is **not guaranteed**

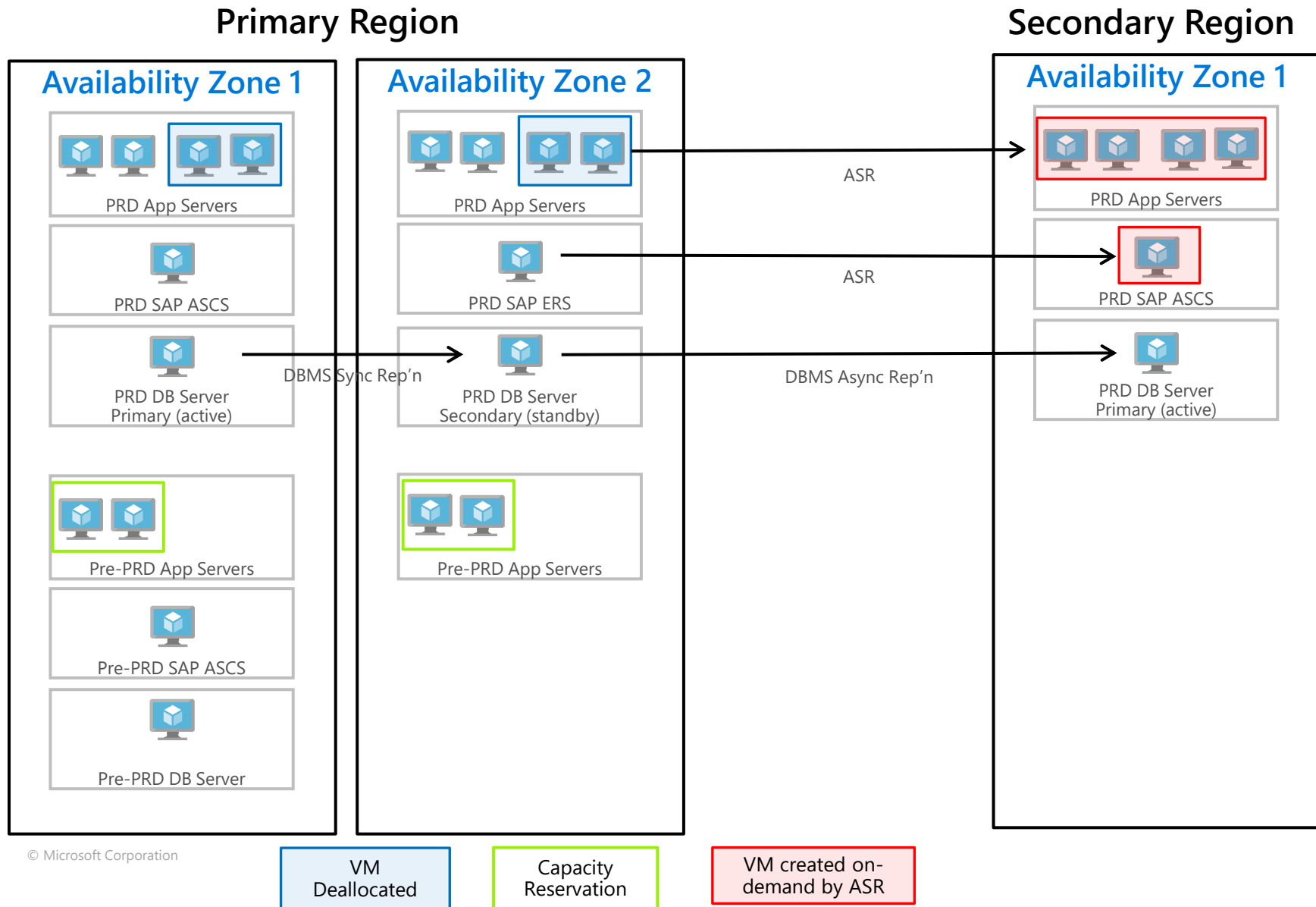
HA across Azure AvZones with Capacity Reservation

Primary Region



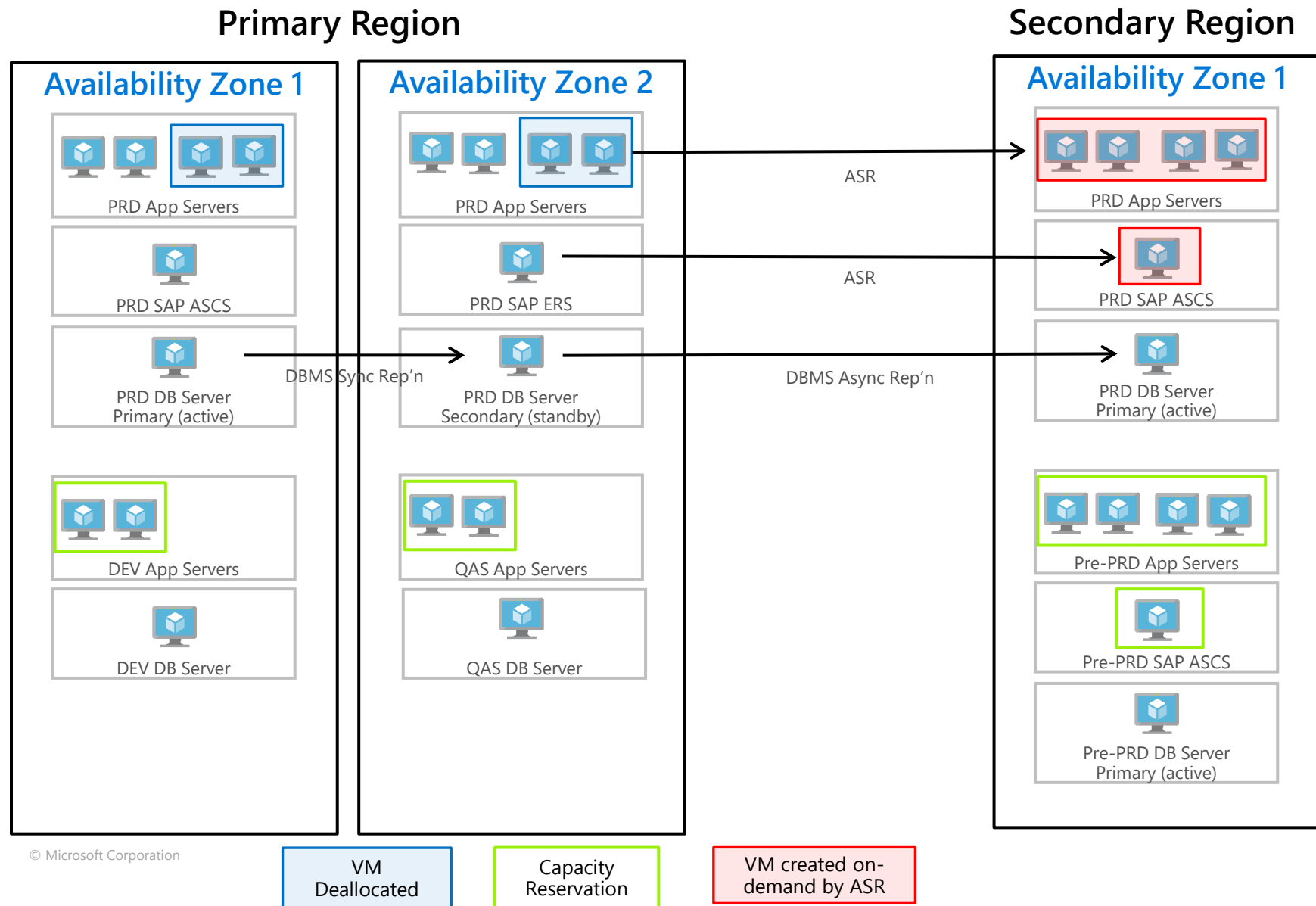
- Provision Pre-PRD across same AvZones in same Region
- Capacity Reservations applied to pre-PRD VMs
- If AvZone fails shutdown Pre-PRD and use capacity reservation to guarantee remaining 50% of PRD App Servers can start
- Capacity is **guaranteed**

HA across Azure AvZone with DR to second Region



- For DR recommend ASR to protect App Servers and ASCS
- ASR replicates the disks and creates the VM on-demand
- But with ASR capacity is **not guaranteed**

HA across Azure AvZone with DR to second Region and Capacity Reservation



- Provision Pre-PRD in secondary Region with DR
- Capacity Reservations applied to Pre-PRD VMs
- If Primary Region fails shutdown Pre-PRD and use capacity reservation to guarantee DR App and ASCS Servers can start
- Capacity is **guaranteed**
- In this scenario use DEV/QAS capacity Reservations in Primary Region to guarantee PRD App Servers

