AGAVAT

S/4HANA TRANSFORMATION

Reference Architecture SAP S/4HANA

SAP S/4HANA Recommended VM Types on MS Azure

- Decide Azure Regions, Availability Zone, VM machine types and Configuration, Network, VPN, Load balancer.
- Create and Connect MS Azure VMs, Virtual Machines running Linux for the application for running SAP S/4HANA
- SAP Supported Operating Systems are SUSE/Red Hat Enterprise Linux and VM Images
  - SUSE Linux 12.0 SP1 and above.
  - Red Hat Version Linux 7.0 and above.
- Select VM Size to determine workload for SAP, please refer MS Azure Supported VM Types
- Prerequisite for SAP HANA on MS Azure – Please refer OSS note 2316233
- Storage types – Standard Storage(Blob, File, Queue, table), Premium disks (VM Disks)
- Install Azure CLI 2.0 on Jumpbox

Note: SAP S/4HANA in MS Azure supports - Scale up to 4 TB

MS Azure VM's and Cloud Components required – SAP S/4HANA

Azure VM Types	*vCPUs*	*Memory in GB*	*SAP HANA Workload*
DS14v2	16	112	SAP Non PROD, SAP Business One
GS5	32	448	SAP QA, Training, OLTP
M64s	64	1024	SAP OLTP Application for S/4HANA
M64ms	64	1792	SAP NetWeaver, S/4HANA and SAP Business Suite
M128s	128	2048	SAP S/4HANA, OLTP
M128ms	128	3892	SAP S/4HANA, OLTP

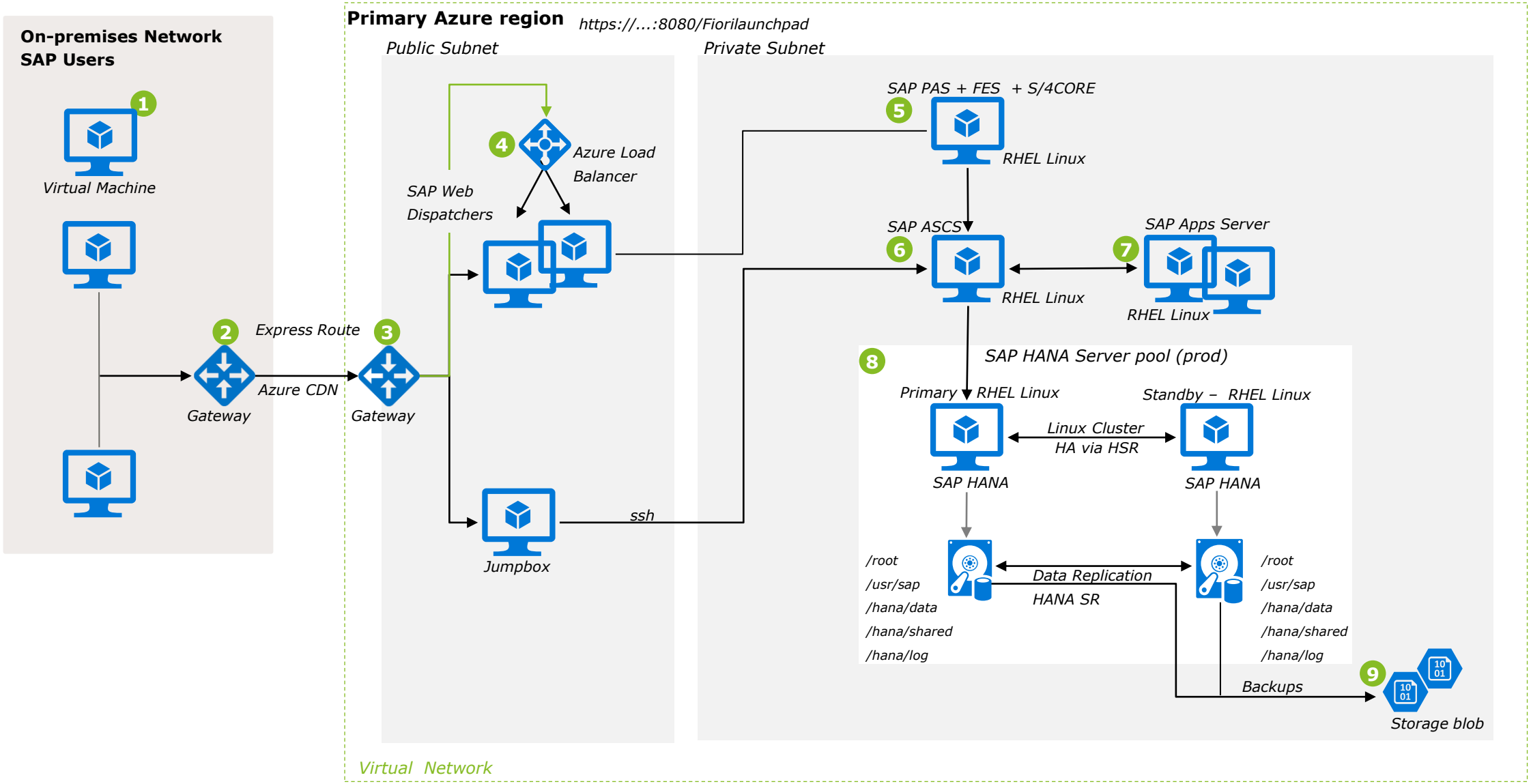
Note: Please refer to SAP Oss note 1928533 and 2316233 SAP Applications on Azure Supported products and VM Types

SAP S/4HANA Reference Architecture – HA and DR Solution

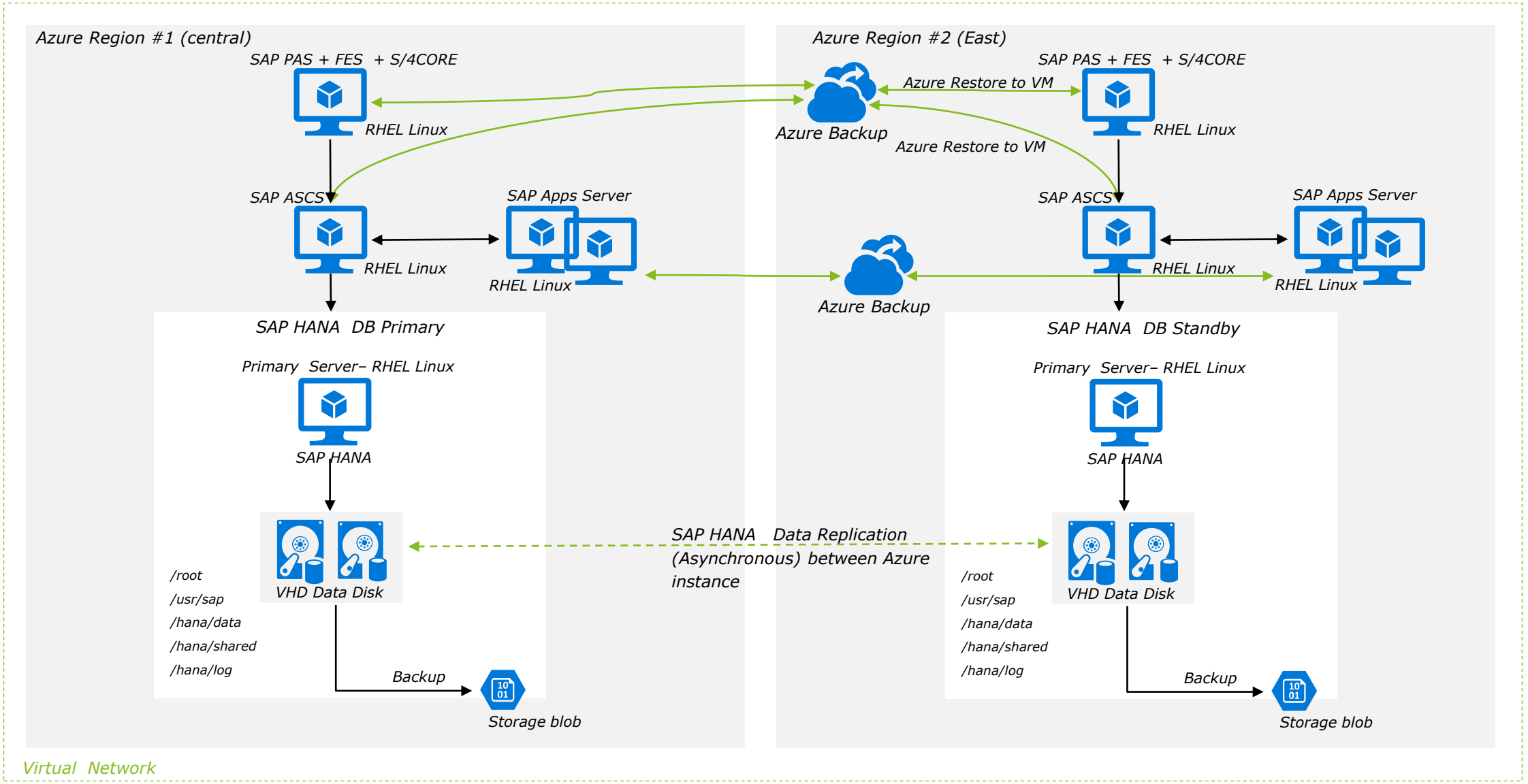
SAP HANA High availability and DR capabilities with HANA includes:

- **Storage replication** – The storage system replicates all data to another HANA instance in different Region and Zones. HANA operates independent.
- **HANA System Replication** – Replication of Data to separate SAP HANA instance at regular intervals and we use SUSE Linux Cluster Pacemaker and Corosync to Configure HA with in same Region different Zone to support HANA – Auto failover
- **Host Auto failover** – Its an alternative solution for HANA SR for Scale out scenario, You can configure standby node so that if master Node becomes unavailable it will automatically failover to standby node (need to be tested) and verified

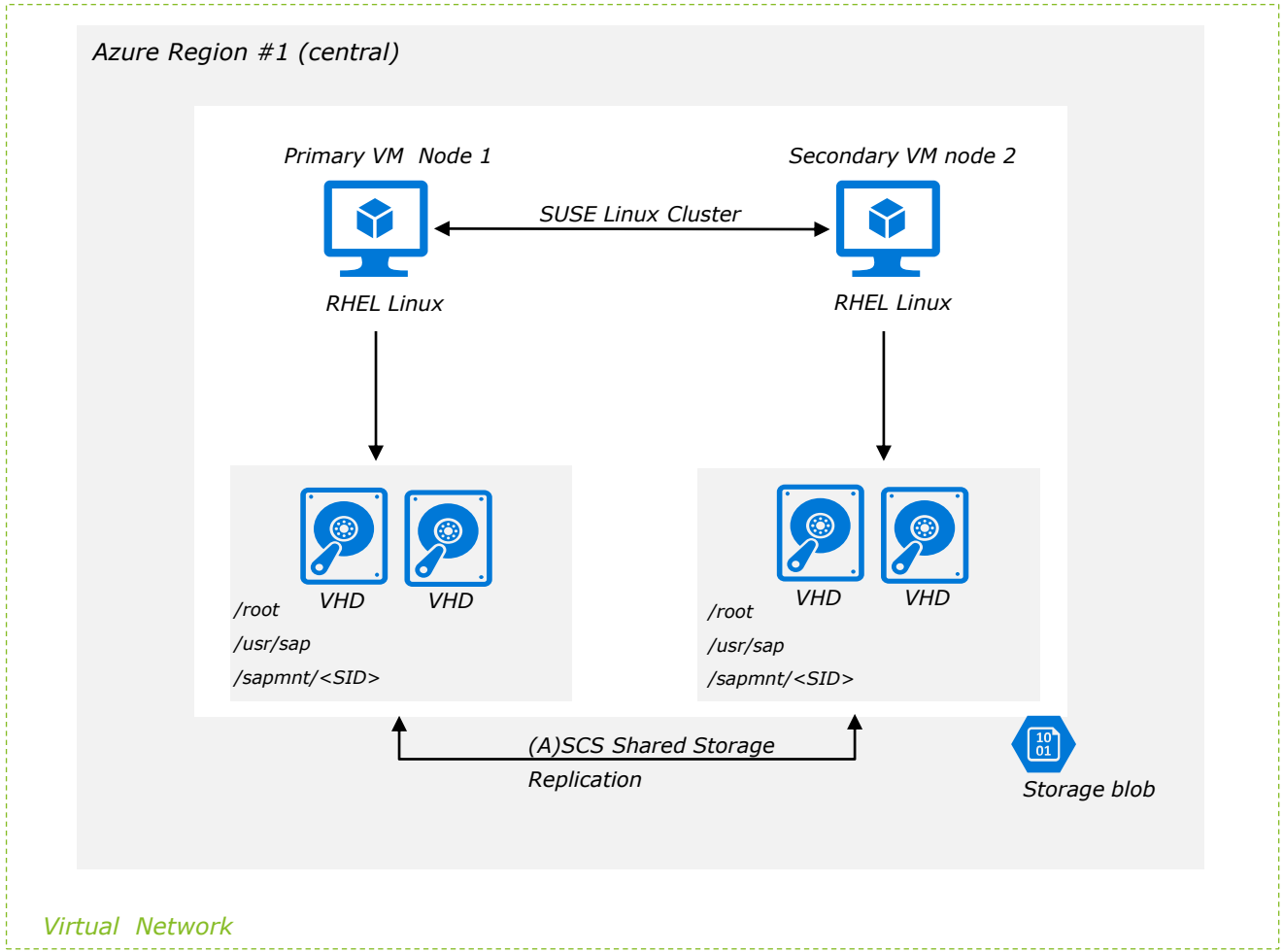
SAP S/4HANA Architecture – using HA Auto failover using HANA HSR



SAP S/4HANA Architecture – DR using SAP HANA Data Replication



SAP S/4HANA Architecture – ASCS HA Auto failover



Note: For further details refer SAP HA NetWeaver Configuration using RHEL Linux

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