Dell Integrated System for Microsoft Azure Stack Hub

Dell and Microsoft certified and validated Azure Stack Hub solution with end-to-end support

Dell Integrated System for Microsoft Azure Stack Hub is a fully productized, validated and supported hyperconverged solution that delivers Azure services on-premises.

It addresses specific use cases across Public Sector, Defense & Intelligence, and Critical Infrastructure requiring operational autonomy. Operational autonomy refers to running your own autonomous cloud, with a select set of Azure services on-premises, without dependencies on connectivity to public Azure.

Azure Stack Hub is an ideal solution for organizations that only need core IaaS and Kubernetes services and intend to modernize their operations using Infrastructure as Code. It is also perfect for building cloud-native applications on-premises and disconnected from Azure.

The supported services for Azure Stack Hub are:

- Azure Infrastructure as a Service (IaaS)
    - Compute – VMs and VM Scale Sets
    - Networking – Virtual networks (vNets), load balancers, VPN gateways
    - Storage – Blobs, tables, queues
- Kubernetes via Azure Kubernetes Service (AKS) engine

Dell Integrated System for Microsoft Azure Stack Hub is deployed as an appliance – racked, cabled, configured, and ready to deploy cloud optimized workloads. It is supported and maintained as an appliance throughout its lifecycle. It consists of the following components:

- 2 x Dell PowerSwitch S5248F-ON Top of Rack / Leaf switches, which provide connectivity internally within the appliance and externally to the production network.
- 1 x Hardware Lifecycle Host (HLH) for initial software deployment of Azure Stack Hub cluster and subsequent patch and update orchestration for the HLH.
- 4 – 16 compute nodes for running the workloads of the Azure Stack Hub cluster. It can be purchased and deployed in configurations of either 4, 8, 12, or 16 nodes.
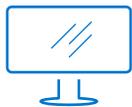
AS-760: Intel Xeon Gold

Processor	2 x Intel Xeon Gold 6442Y (24 core)	2 x Intel Xeon Gold 6448Y (32 core)	2 x Intel Xeon Gold 6430 (32 core)	2 X Intel Xeon Gold 6430 (32 core)
Memory	1024 GB	1024 GB	1024 GB	2048 GB
Storage	All-Flash SAS SSD 92TB	All-Flash SAS SSD 92TB	All-Flash SAS SSD 92TB	All-Flash SAS SSD 184TB
Network	CX6 Lx 25GbE LP	CX6 Lx 25GbE LP	CX6 Lx 25GbE LP	CX6 Lx 25GbE LP
GPU	No	No	No	No
Power	1800 W	1800 W	1800 W	1800 W

AS-760: Intel Xeon Platinum

Processor	2 x Intel Xeon Platinum 8470N (52 core)	2 x Intel Xeon Platinum 8470N (52 core)	2 x Intel Xeon Platinum 8470N (52 core)	2 x Intel Xeon Platinum 8470N (52 core)
Memory	1024 GB	1024 GB	2048 GB	2048 GB
Storage	All-Flash SAS SSD 92TB	All-Flash SAS SSD 92TB	All-Flash SAS SSD 184TB	All-Flash SAS SSD 184TB
Network	CX6 LX 25GbE LP	CX6 LX 25GbE LP	CX6 LX 25GbE LP	CX6 LX 25GbE LP
GPU	No	1 x L40S	No	2 x L40S
Power	1800 W	2800 W	1800 W	2800 W

AS-760 HLH (Hardware Lifecycle Host)

Processor	2 x Intel Xeon Gold 6442Y (24 core)
Memory	256 GB
Storage controller	HBA355i
Storage capacity	3.84 TB (2 X 1.92TB SSD SAS)
OS Boot	BOSS-N1 controller card with 2 SED M.2 960GB (RAID 1)
NIC	NVIDIA ConnectX-6 Lx Dual Port 25GbE SFP28, OCP NIC 3.0
GPU	Not Applicable
PCIe slots	Riser Config 1, 6x8 FH Slots (Gen4), 2x16 LP Slots (Gen4)
Power	1100 W

Learn more about Dell Integrated
Systems for Microsoft Azure Stack Hub

Contact a Dell Expert
1-866-438-622

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