

**Hewlett Packard
Enterprise**

Top 5 Reasons HPE Delivers the Best Microsoft Azure Stack Solution

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September 2018



HPE ProLiant for Microsoft Azure Stack

Deliver Azure-consistent services from your data center



Common developer experience for Azure and Azure Stack simplifies app development



Multiple configuration options (processors, memory, storage, nodes, rack and power supplies)



Consistent API allows deployment to Azure Stack or Azure public



Multiple packaging options (factory integration or virtual rack)



Integrated system management simplifies operations (HPE OneView)



Multiple financing options (capital purchase, pay as you go and leasing)



Multiple sourcing options (HPE, HPE & MS, direct CSP and indirect CSP)

Most configurable solution available



Top 5 Reasons HPE Delivers the Best Solution Available

- | | |
|---|---|
| 1 | The most configurable solution available |
| 2 | Unmatched security |
| 3 | Pay-as-you-consume pricing |
| 4 | HPE partners to deliver solutions for our customers |
| 5 | Expertise and try before you buy |

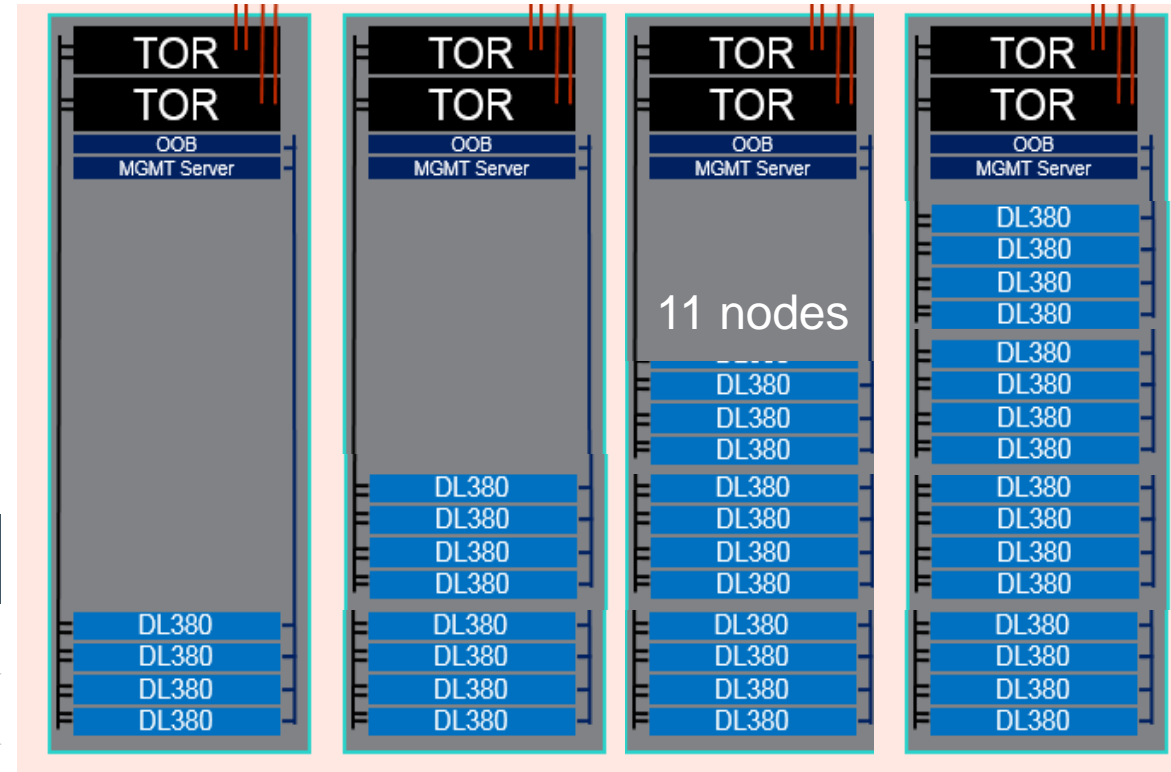
#1: The most configurable solution available

- Highly configurable—processor, memory, storage, single-node sizing and rack/virtual rack
- Example Entry configuration
 - 4 HPE ProLiant DL380 Servers
 - Dual Skylake 2.6 Hz processor, total 24 cores/server
 - 384 GB RAM memory/server
- Example Maximum configuration
 - 16* HPE ProLiant DL380 Servers
 - Dual Skylake 2.5 GHz processor, total 56 cores/server
 - 1.5 TB memory/server

Example configurations**

| | Mem | Processor | Storage | RAW vs Usable Capacity | VMs |
|-----|-------|----------------------------|---------|------------------------|----------|
| 4 | 952 | Xeon 6126 12 c, 2.6GHZ | 72TB | 288 TB / ~96 TB | 272 (A) |
| 8 | 2488 | Xeon 6138 20 c, 2.0 GHZ | 96TB | 768 TB / ~256 TB | 710 (A) |
| 12 | 4024 | Xeon 8160 24 c, 2.1 GHZ | 120TB | 1440 TB / ~480 TB | 1150 (A) |
| 16* | 22840 | Xeon 8180 28 c, 2.5 GHZ | 120TB | 1920 TB / ~640 TB | 6525 (B) |

Any quantity between 4-16 nodes (c)



A. Based 384 GB RAM per node less HA and system overhead.with standard D1 VMs supported
 B. Based 1.5 TB RAM per node less HA and system overhead.with standard D1 VMs supported
 C. Dependent on Microsoft release schedule

Hardware overview



| Component | Default | Options |
|------------------------|---|--|
| Environmentals | Cabinet, cables, POU, factory build | |
| Server | 4 HPE ProLiant DL380 Gen10 | 4-16 nodes |
| Processor ¹ | Intel Skylake CPUs | 10 – 28 cores 2.0 – 3.0 GHz |
| Memory ² | 24 DIMM Slots 384 GB minimum | 384 GB, 576 GB, 768 GB, 1.5 TB |
| Storage ³ | 12 HDD per server 6-SSD per server | 4TB, 6TB, 8TB, or 10TB 800GB, 1.6TB, or 3.2TB |
| Network | 25 GbE SFP28 1 GbE RJ45 (OOB Management) | FlexFabric 5950 48SFP28 FlexFabric 5900 AF-48G-4XG-2QSFP+ Cisco Nexus 9300 / 3048(Roadmap) Arista 7160 / 7020RA (Roadmap) |
| Power | 110V and 220V HPE Power Advisor | |
| OOB server | HPE ProLiant DL360 Gen10 8SFF CTO Server | Higher performance HLH |

What's New?

– Expansion node support

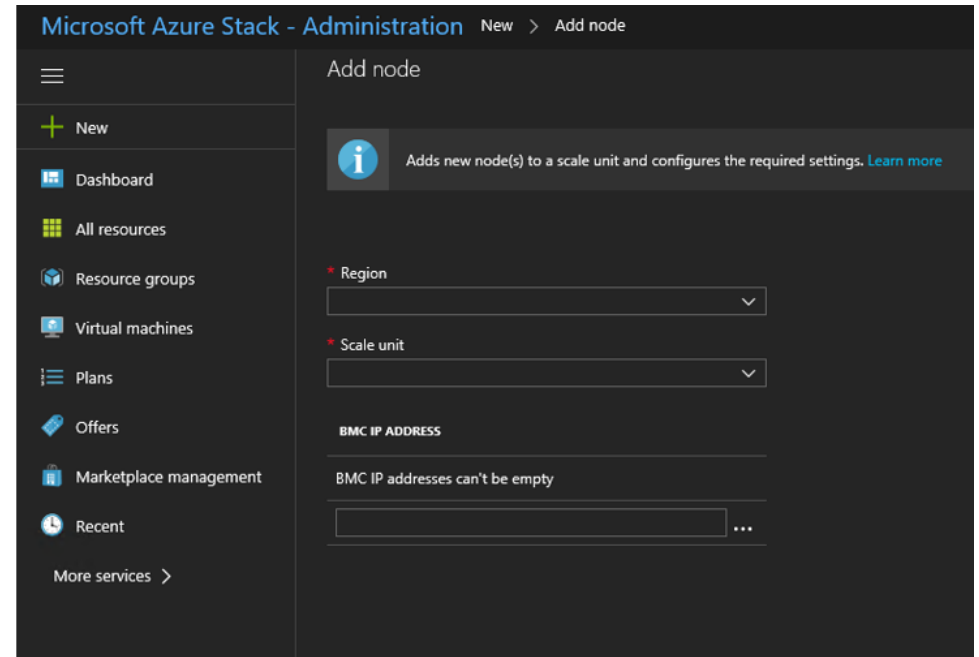
- Easily grow your deployments with the availability of “Add Node”

– Support for 16 node scale units

- Configure any increment between 4-16 nodes

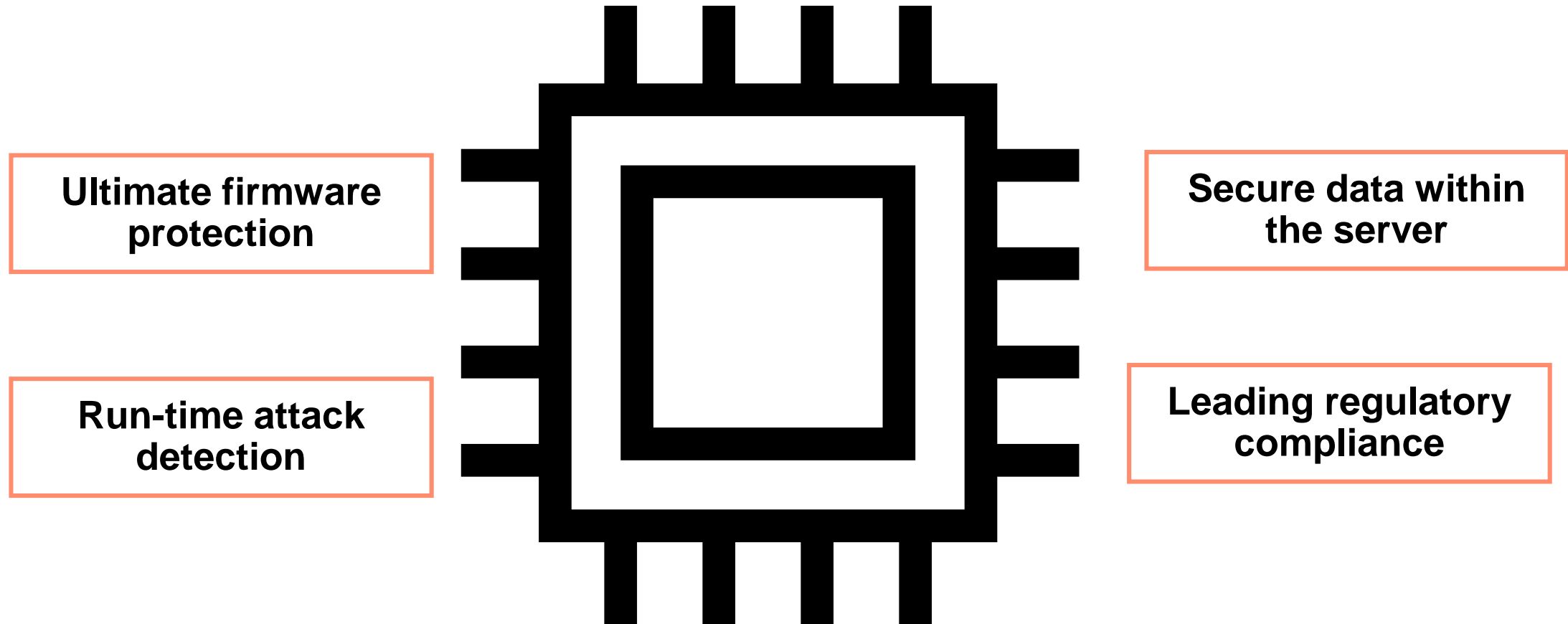
– New Gen10 Hardware Lifecycle Host

– Support for Microsoft Azure Stack for Government



#2: Unmatched security

HPE Silicon Root of Trust



Protect, detect and recover from attacks with industry-leading encryption and firmware protection

#3: Pay-as-you-consume pricing

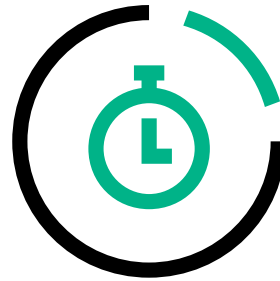
HPE GreenLake Flex Capacity

Cost: Pay for what you use¹



- Conserve capital – no upfront payments
- Pay per use (subject to minimum commitment)
- Variable payment based on compute units

Speed: Time-to-market



- Elastic – add VMs or usage within the Proliant for Azure Stack cluster
- Grow by adding an additional cluster
- Scalability improves with future release of Azure Stack

Reduce business & operational risk



- In the privacy of your own datacenter
- Enterprise-grade support
- A partner to share capacity risk

#4: HPE Partners to Deliver Solutions for Customers

Broad ecosystem of validated solutions

–Partnering with ISVs to deliver customer solutions in 4 key areas:

- Data protection/high availability
- Deployment
- Monitoring/optimization
- Security

COMMAVAULT 



 MICRO FOCUS[®]

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#5: Expertise and try before you buy

Joint HPE-Microsoft Azure Stack Innovation Centers



Experience: State-of-the-art technical engagement facility

- Customers immersed in Azure Stack technology with comprehensive programs from discovering, planning, designing, and producing proof-of-concept implementations
- Offerings tuned to your customer's needs
- Goal of customers being 100% committed to further Azure Stack collaboration



Access: HPE ProLiant for Microsoft Azure Stack

- Azure Stack hardware and software solutions
- Azure Stack subject-matter experts from Microsoft and HPE



Locations: Multiple options

- Best experience: in-person at the ASIC:
 - Microsoft Technology Center in Bellevue, WA, USA
 - HPE Customer Engagement Centers in Geneva and Singapore
- Customer site and remote options available



HPE ProLiant for Microsoft Azure Stack

Customer momentum



Next steps

Stop by the demo

Learn about our work with solution providers
See HPE GreenLake Flex Capacity in action

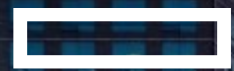
Learn more

www.hpe.com/cloud/azure-stack

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HPE and Microsoft Azure Stack Innovation Centers
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Thank you



Microsoft