Who is Equinix?
The world’s leading interconnection platform

Global platform for high-performance hybrid and multicloud interconnection
- 1,800+ networks and 2,900+ cloud and IT companies in our data centers
- 9,800+ customers and over 333,000 total interconnections globally

Long-standing partnership with Microsoft
- 24 Azure ExpressRoute service locations worldwide
- 4000+ customer connections to Azure
- Azure compute, storage and network resources located in Equinix facilities globally
- Azure Expert MSP Gold Partner
Who is Vigilant.IT?
Azure and Hybrid Cloud Solutions Specialist

Multiple Gold Certified Microsoft Partner
- Gold Platform, Datacenter, Cloud Productivity & Application Development
- 5 Silver competencies

Australia’s Azure Specialists
- Azure Stack early adopters
- Azure Stack enthusiasts
- Azure Networking ExpressRoute experts
- Data Center Transformation specialists
Azure Stack HPE PoC System with Vigilant.IT

Three-way Partnership: HPE, Equinix and Vigilant.IT

- Customers asking for real-world environment for Azure Stack applications (more than SDK)
- HPE system in Sydney offered up to deploy in Equinix Solution Validation Center (SVC)
- Vigilant.IT expert experience with Azure, ASDK, and hybrid network deployment

Results:

- 4-node Azure Stack system deployed by HPE into Equinix Sydney SY4
- Real-world environment fully connected to ExpressRoute and IP resources
- Vigilant.IT planning, set-up, system management, demo and PoC applications
- Joint customer targets with HPE and Microsoft
Azure Stack Validation Center

4-Node Integrated HPE System in Equinix Solution Validation Center
Azure Stack Border Connectivity

- ExpressRoute subscription created in Azure account
- Equinix Cloud Exchange ports (ECX) set up in portal with assigned VC's to ER

Customer Border Routers configured with:
- /30 public IP space
- primary/secondary VLAN to ECX Fabric
- BGP routing
- 16-bit AS number

- TOR Ports 47/48 connect up to dual customer border routers on 10GbE SFP
- Dual TOR switches connect down to BMC and Host Nodes (i.e. HPE 5950 & 5900AF to DL380s)

https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-network
Azure Stack Learnings – Networking

Public IP addressing
- Don’t NAT your Public VIPs
- Use a /24 as minimum
- Deploy all planned PaaS services prior to tenant deployments

Routing
- Route BMC and Public IP networks only
- Stay off all other Azure Stack subnets unless you have a specific use case (i.e. agentless monitoring. Coordinate with your OEM)
- Use BGP Routing - Azure Stack supports BGP or Static
Azure Stack Learnings – DNS & Certs

DNS & Domain Name
- Use a new DNS domain
- Plan DNS topology thoroughly

Certificates
- Run the certificate validation tool prior to OEM deployment
- Follow the docs process – RTFM
- Plan your secret rotations! Don’t be like Dan…
Azure Stack Learnings - Operating

Time Source
- Have a consistent and accurate time source. This is very important!

Cloud Operator VM
- Deploy a dedicated VM somewhere close to the stamp to be a dedicated Cloud Operator VM
- Install all tools and use for infrastructure management tasks
- Have a good understanding on PowerShell version and module management

Update
- Update your stamp ASAP!
- Read the release notes…
Right Relationships
- Identify your qualified Azure Stack partner. This is very important!
- An Azure Stack partner will be the difference in ensuring success

Cloud Operators
- Identify your Cloud Operators
- Train and upskill your people
Azure Stack Learnings - Planning

Offers and Plans
- Scope your plans appropriately
- Use add-on plans for extending plan quotas

Billing & CSP
- Cloud Assert Billing RP – a must for MSPs
- Understand the CSP billing model
Finally: Choose Your Delivery Company Wisely!
Because accidents happen…
HPE Azure Stack with Equinix and Vigilant.IT

Check out our blogs for more information

Equinix Blog:

https://blog.apps.id.au
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Q & A