


Get Started With
SQL Server in Azure




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Why Azure?

 | Real Microsoft expertise. Real business value.™


Rapidity

 | Real Microsoft expertise. Real business value.™

Resiliency

 | Real Microsoft expertise. Real business value.™

Resources

 | Real Microsoft expertise. Real business value.™

Azure fundamentals

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Regions

- Currently, there are 22 regions

- US (8)
- Europe (2)
- Asia (2)
- Japan (2)
- Brazil (1)
- Australia (2)
- India (3)
- China (2)



- Coming soon: Canada, Germany, UK

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How you pay for it

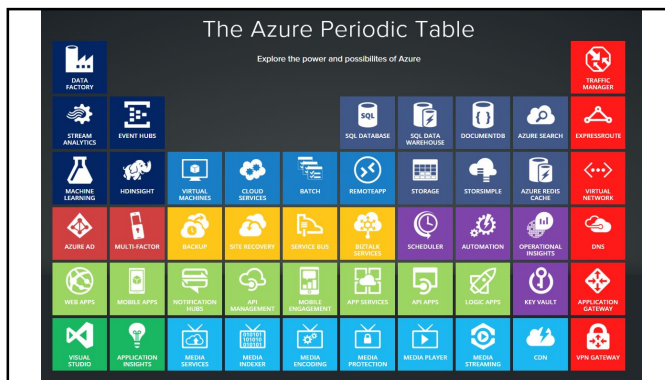
- Free trial - One month, up to \$200
- Visual Studio/MSDN subscriptions
- Enterprise Agreements
- Resellers
- Prepaid subscriptions - 12 months, 5% discount
- Pay as you go with a credit card
- Find out more at <https://azure.microsoft.com/en-us/pricing/>

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Compliance

- HIPAA/HITECH
- ISO 27001
- ISO 27018
- PCI DSS Level 1
- Azure Trust Center: <https://azure.microsoft.com/en-us/support/trust-center/compliance/>

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Secure cross-premises connectivity

- Point-to-site VPN
 - Configured on *each* client
 - Doesn't require a compatible VPN device
 - Doesn't require an internet-facing IPv4 IP address
- Site-to-site VPN
 - Configure compatible VPN device with Azure VPN Gateway
 - VPN device must have an Internet-facing IPv4 IP address
- Express Route
 - "More reliability, faster speeds, lower latencies and higher security"
 - More money
 - Limited locations and service providers

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Networking Inside Azure

- Virtual Networks (VNETs)
 - Virtual Network Overview: <https://azure.microsoft.com/en-us/documentation/articles/virtual-networks-overview/>
 - VNETs are isolated from each other
 - ...but VMs in the same VNet can communicate on private IPs
- Can divide into subnets
- Can put behind load balancer
- Set up a VNet before any VMs or services
- MVA: Azure Networking Fundamentals for IT Pros
https://mva.microsoft.com/en-US/training-courses/azure-networking-fundamentals-for-it-pros-8917?l=R70kv0B3_6104984382

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What are you paying for?

- Network (VPN Gateways, Public IP Address, Express Route)
- Compute (VMs)
- Licensing (SQL Server)
- Storage (disks)
- Throughput (SQL Database)
- Automation
- Data Out

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Management

- Portal
 - Classic Portal
 - Portal
 - You can't manage all features from either one:
<https://azure.microsoft.com/en-us/features/azure-portal/availability/>
- PowerShell
 - Learn it and love it
 - Download and install <https://azure.microsoft.com/en-us/documentation/articles/powershell-install-configure/>
 - Cmdlet Reference <https://msdn.microsoft.com/en-us/library/azure/dn708514.aspx>



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Download scripts

- <https://github.com/grrlgeek/azure-sql-server>
