

Introduction to Azure

22nd July 2021

Thank you for joining - we'll be starting soon





WHAT WE WILL COVER TODAY?

- · What is Microsoft Azure?
- · How can Azure help my organisation?
- · Will I still need a local server?
- Examples of how other NFPs have used Microsoft Azure
- · How much does Azure cost, how do I access the Grant
- Ongoing management of Microsoft Azure
- Build Examples and Case Studies



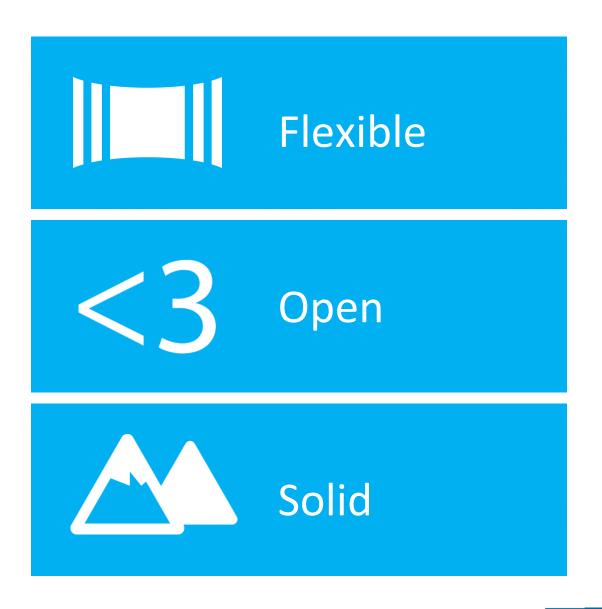
About the I.T. team

- Formed in 2011
- Office 365 since its inception
- Managed Services/IT support
- A wide range of IT services
- Major NFP base of customers
- Providing IT services to NZ & Australian organisations

the IT team Maintaining the health of your I.T. system

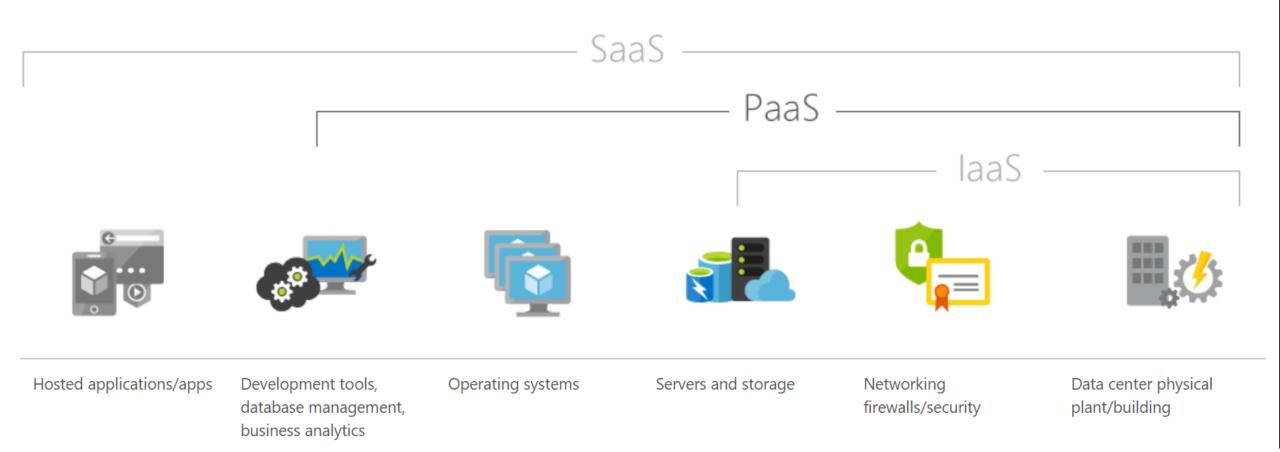
Microsoft Azure

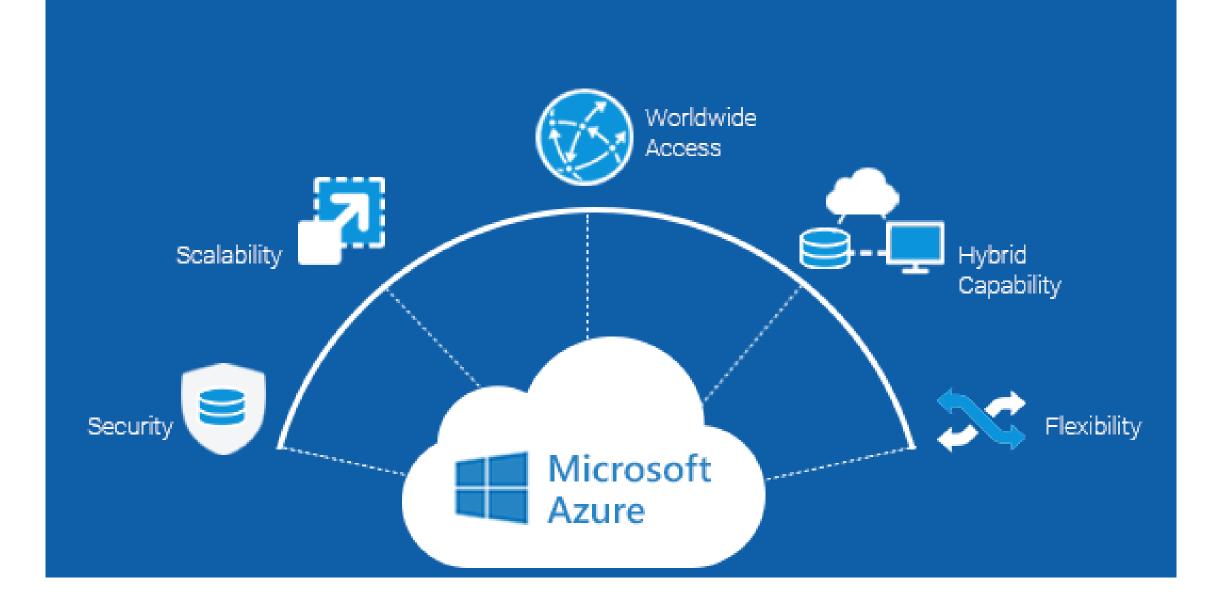
Comprehensive set of services that enable you to quickly build, deploy and manage applications across a global network of Microsoft-managed datacenters











54 Azure Regions across the globe







Applications

Data

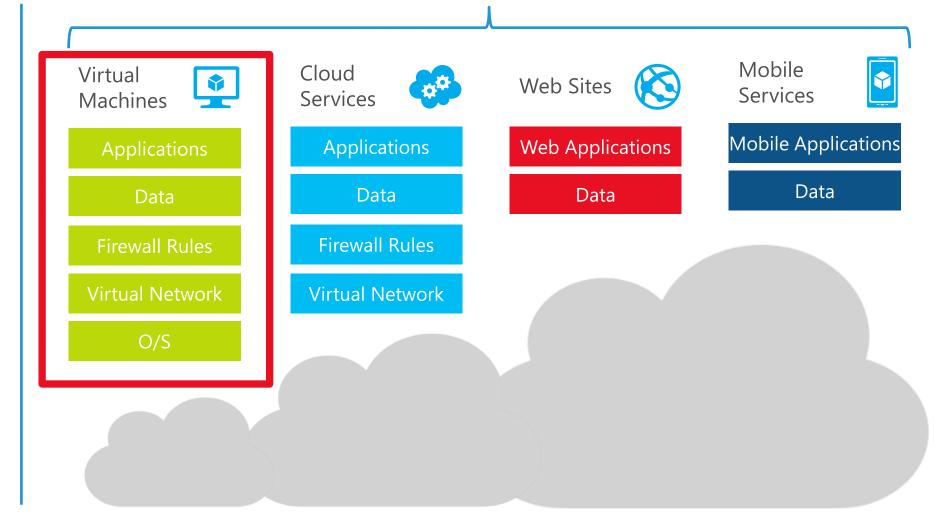
Firewall

Network

O/S

Virtualization

Hardware



Focus on Application





Common Uses for NGO/NFP's

Domain Controller

File Server

RDS Server (+ DC/File Server/s)

Azure Site Recovery – Backup Service

Azure Backup

Application Server

Phone Server

How much does it cost?



Consumption Based (minutes & hours)



Predictable Billing monthly, but not fixed



Reserved Instances



Bandwidth, Network Costs need to be factored in



Generally cheaper than localized Datacentre providers



Often more economical than On Premise Hardware

Why would I still need a Local Server?

- Hybrid Mode
- Comfort with Local
- Internet Performance
- Large local/centralised workforce
- Significant Storage Requirements
- Core Application Situation
- Designer/Architectural Firms
- Legacy Systems & Licensing Costs
- CAPEX Preference

Ongoing Management



Requires IT Pro ongoing



No Physical Maintenance



Servers/Services require monitoring & maintenance



Backups need to be monitored/tested periodically



Admin/Finance need to monitor costs



New opportunities will arise

Additional Considerations



Do consider Backups



Bandwidth costs



Networking Costs



Fluctuations can be painful



Evolving Technology



Licenses are required



Reserved Instances



Consumption Restrictions

Azure Virtual Machine



Most common Azure function



Preset Plans to choose from (can't set exactly the resources you require)



100's of different types of Plans



Very high performance options including for Graphic Design/CAD



Can choose many locations around the globe



Infrastructure as a Service; but still requires some Management

3CX basic (1-20 ext)	Pay as you go	1 year reserve	3 year
B1S Plan (1CPU, 1GB RAM)	\$14.57	\$8.56	\$5.50
HDD standard SSD 32gb	\$4.93	\$4.93	\$4.93
IP static	\$3.97	\$3.97	\$3.97
backup	\$8.50	\$8.50	\$8.50
total monthly	\$31.97	\$25.96	\$22.90

- Basic Server Running Linux
- Almost as low spec as possible

DC BASIC	Pay as you go	1 year reserve	3 year
B2S Plan (2CPU, 4GB RAM)	\$67.11	\$42.85	\$30.79
HDD standard SSD 64gb for OS(e6)	\$9.87	\$9.87	\$9.87
HDD standard SSD 8gb for AD(e2)	\$1.23	\$1.23	\$1.23
Traffic Out	\$1.00	\$1.00	\$1.00
Backup	\$8.50	\$8.50	\$8.50
Total monthly	\$87.71	\$63.45	\$51.39

- Simple Domain Controller only
- Can probably run a basic app, integration or some file hosting if required

Domain Controller

DC Basic + File Server	Pay as you go	1 year reserve	3 year
B2MS Plan (2CPU, 8GB RAM)	\$125.82	\$77.00	\$52.71
HDD standard SSD 64gb for OS(e6)	\$9.87	\$9.87	\$9.87
HDD standard SSD 8gb for AD(e2)	\$1.23	\$1.23	\$1.23
HDD standard HDD 512GB (data)	\$52.64	\$52.64	\$52.64
Snapshots of OS SSD (up to 80GB)	\$15.97	\$15.97	\$15.97
Traffic Out	\$20.00	\$20.00	\$20.00
backup (for all disks)	\$33.72	\$33.72	\$33.72
total monthly	\$259.25	\$210.43	\$186.14

- Basic DC Server + File Server (high performance disks)
- Haven't separated Domain Controller + File Server functions (technically not recommended by Migration

Domain Controller + File Server

DC basic + File Server	Pay as you go	1 year reserve	3 year
B2MS Plan (2CPU, 8GB RAM)	\$125.82	\$77.00	\$52.71
HDD standard SSD 64gb for OS(e6)	\$9.87	\$9.87	\$9.87
HDD standard SSD 8gb for AD(e2)	\$1.23	\$1.23	\$1.23
HDD standard HDD 512GB (data)	\$52.64	\$52.64	\$52.64
Snapshots of OS SSD (up to 80GB)	\$15.97	\$15.97	\$15.97
B4MS Plan (4CPU, 16GB RAM)	\$250.54	\$154.11	\$105.44
HDD premium SSD 64gb for OS(p6)	\$15.43	\$9.87	\$9.87
HDD standard SSD 256gb for data	\$39.48	\$39.48	\$39.48
Snapshots of OS SSD (up to 80GB)	\$15.97	\$15.97	\$15.97
Traffic Out	\$20.00	\$20.00	\$20.00
Backup (for all disks)	\$45.00	\$45.00	\$45.00
RDS licence per 1 user	\$8.58	\$8.58	\$7.31
IP static	\$3.97	\$3.97	\$3.97
total monthly	\$602.92	\$453.11	\$380.15

- Remote Desktop Server added (aka Terminal Server)
- Best for varied quality connections or BYOD situations

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SQL Server	Pay as you go	1 year reserve	3 year
D2s V3 (2CPU, 8GB RAM)	\$239.51	\$188.10	\$159.63
HDD Premium SSD 128GB OS	\$29.80	\$29.80	\$29.80
HDD Premium SSD 64GB SQL	\$15.43	\$15.43	\$15.43
HDD Premium SSD 64GB SQL	\$15.43	\$15.43	\$15.43
HDD Premium SSD 64GB SQL	\$15.43	\$15.43	\$15.43
Snapshots of OS SSD (up to 80GB)	\$15.97	\$15.97	\$15.97
Traffic Out	\$10.00	\$10.00	\$10.00
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Azure VM basic backup (all disks)	\$35.00	\$35.00	\$35.00
IP static	\$3.97	\$3.97	\$3.97
SQL licence cost			
total monthly	\$380.54	\$329.13	\$300.66

- Example doesn't include DC/File etc
- Requires full server
- SQL licenses can be expensive

SQL Server

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SQL Server	Pay as you go	1 year reserve	3 year
D2s V3 (2CPU, 8GB RAM)	\$239.51	\$188.10	\$159.63
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SQL Server

Azure Site Recovery

Business Continuity

Replicates Physical and Virtual Servers

Fast Recovery to the Cloud

Sometimes used as a transition method

Very Reasonable pricing (\$50 per server – example)

Azure Backup



Simple Data Backup



Image Based Backup (to Backup Azure Servers)



Extensive Retention Options



Costs are very low

Pricing calculator

Configure and estimate the costs for Azure products



Products Example Scenarios Saved Estimates FAQ Select a product to include it in your estimate. Search products Virtual Machines Storage Accounts Azure SQL Database **Featured** Provision Windows and Linux virtual Durable, highly available, and massively Managed, intelligent SQL in the cloud Compute scalable cloud storage machines in seconds

Pricing Calculator

https://azure.microsoft.com/en-us/pricing/calculator/



Customer A



Physical Servers – x3

Domain Controller
File Server
Application Server



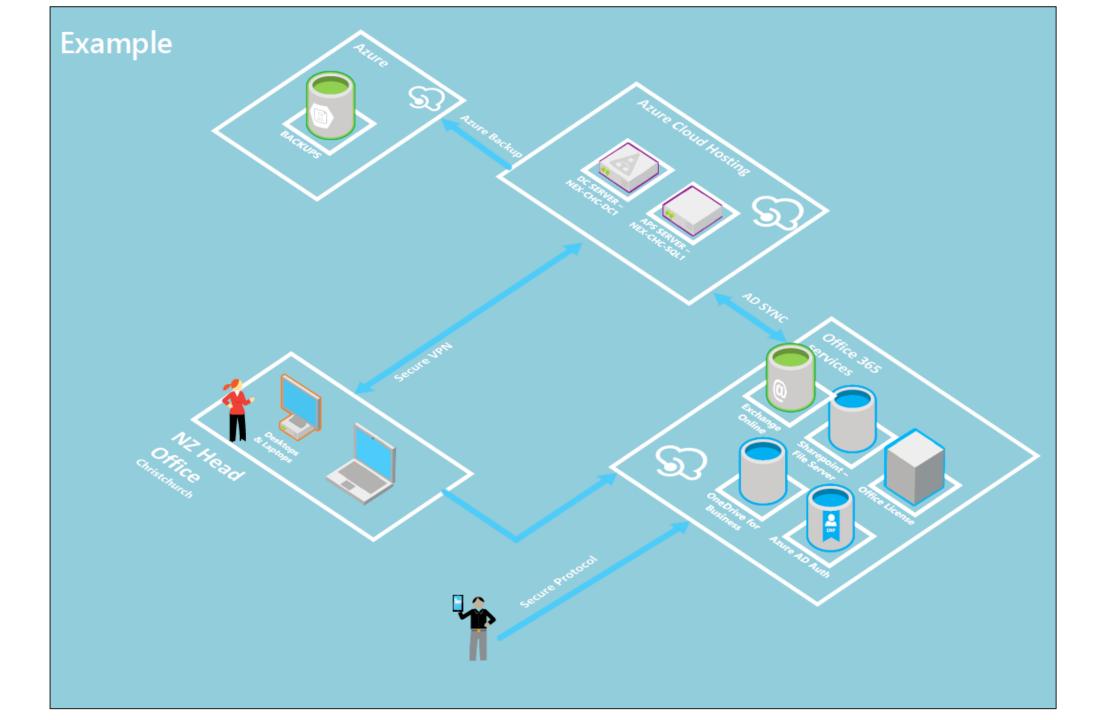
Importantly, Application needs to be running on a Server



Customer is not yet ready to move all files to Sharepoint



Considering Replacing Servers or Going to Azure



DC + File & App Server	Pay as you go	1 year reserve	3 year
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HDD standard SSD 64gb for OS(e6)	\$9.87	\$9.87	\$9.87
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HDD standard HDD 512GB (data)	\$52.64	\$52.64	\$52.64
Snapshots of OS SSD (up to 80GB)	\$15.97	\$15.97	\$15.97
Traffic Out	\$27.00	\$27.00	\$27.00
Backup (for all disks)	\$45.00	\$45.00	\$45.00
total monthly	\$277.53	\$228.71	\$204.42

- Basic DC Server + App Server (high performance disks)
- Haven't separated Domain Controller + File Server functions (technically not recommended by Migration
- May require more resource for App Server, also may require SQL.
- Could elect to have 3 servers for approx. 30% cost increase

Azure Grant for NFP's and how does it work?

\$3500 USD per year

Requires Credit Card to be loaded

Once \$3500USD is consumed, charges commence



How to Access the Azure Grant

- Register at Techsoup
- Need Microsoft Tenancy
- Go to nonprofit.microsoft.com sign in
- Will need to fill in several answers to questions; submit.
- 2-3 days, generally will be approved
- If already this is already done, apply for the Azure Credits within the non-profit.microsoft.com
- Application for Azure Credits. Fill in and generally approved within a few days.

Status: Approved 🗅

You are eligible for nonprofit offers from Microsoft. Click on an offer below for more information.

New! Introducing Microsoft Cloud for Nonprofit

Microsoft Cloud for Nonprofit connects the intelligent and integrated cloud capabilities of the Microsoft stack to the including constituent engagement and fundraising, staff collaboration and volunteer management, and program des Nonprofit, see a demo of the new capabilities in Fundraising and Engagement, and hear from nonprofits using Microsoft Register now



Microsoft 365

Empower your employees with tools for better collaboration. Get started today with Microsoft 365 Business Premium, Office Apps, and Power BI to help increase productivity and creativity in your organization.



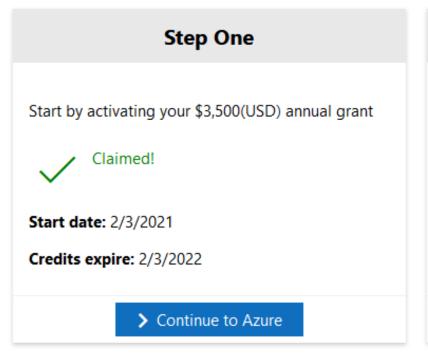
Azure Grant

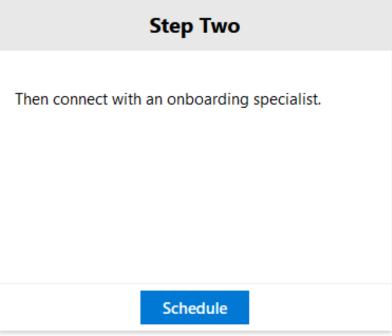
Offset IT costs with integrated services. Access analytics, computing, networking, storage, and more with Microsoft Azure cloud services.

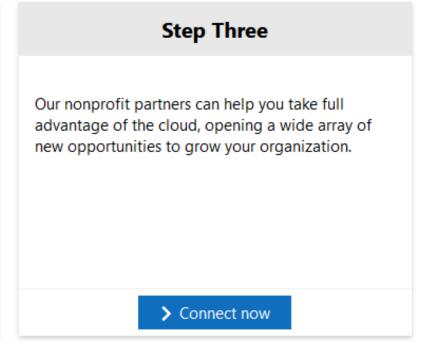
Azure Grant

Offset IT costs with integrated services. Access analytics, computing, networking, storage, and more with Microsoft Azure cloud services.

By claiming the Azure grant, I confirm that I am a representative for the nonprofit organization listed above. Further, I understand that Microsoft may use the verification data that I have submitted, in conjunction with data provided by other representatives of the nonprofit organization, in order to confirm my affiliation with the nonprofit organization. To learn more about how Microsoft uses personal data, please see the Microsoft Privacy Statement. I also agree to receive communications from Microsoft about the grant and Azure resources available to me.







Resources

- Azure for NFP's page
 https://www.microsoft.com/en-us/nonprofits/azure
- Pricing Calculator
 https://azure.microsoft.com/en-us/pricing/calculator/
- TechSoup Azure Credit

https://www.techsoup.net.nz/blog/microsoft-azure-credits-now-available-eligible-not-profit-organisations



the I.T. team Maintaining the health of your I.T. system

QUESTION TIME

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THANK YOU

the I.T. team has been in business since 2004.

Our focus has always been on offering a fresh range of I.T. related services and support designed to help client organisations maximise productivity and protect themselves from all kinds of data related risks.



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