

Microsoft Azure Fundamentals
Training Bootcamp

Seven Advantages of Microsoft Azure Cloud Computing

Azure Cloud is Cost-Effective

Azure Cloud is Cost-Effective

- ❑ Azure Cloud offers a pay-as-you-go pricing model (aka consumption-based pricing model)
- ❑ Key aspects to remember:
 - ❑ No upfront costs
 - ❑ Pay extra for resources only when needed (elasticity)
 - ❑ No infrastructure to purchase and manage



Azure Cloud is Scalable

Azure Cloud Is Scalable

- ❑ Azure Cloud is highly scalable and can accommodate any business growth; manual or automatic.
- ❑ Azure cloud can adapt to your business by scaling either *vertically* or *horizontally*



Vertical Scaling



Horizontal Scaling

Azure Cloud is Elastic

Azure Cloud is Elastic

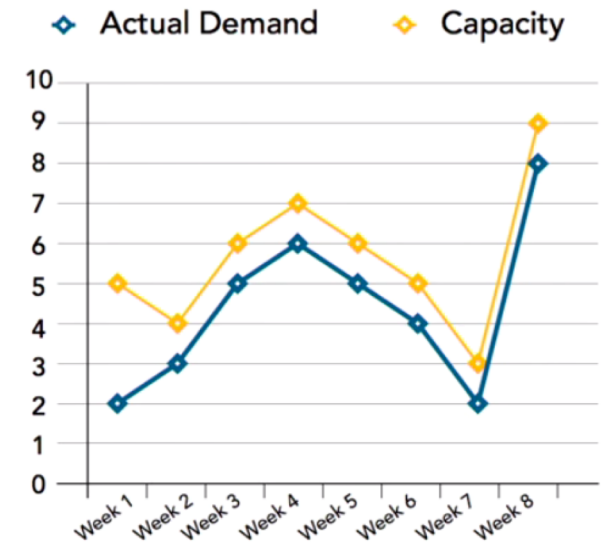
☐ Azure Cloud is highly elastic and can adapt to demand changes, adding or removing resources

☐ Remember the Black Friday example ?



Usual Traffic

Unexpected Heavy Traffic



Elasticity

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Azure Cloud is Current

Azure Cloud is Always Up to Date (Current)

- ☐ Azure Cloud is always up to date, running on most current and recommended hardware and software versions
- ☐ Microsoft Azure is responsible for:
 - ☐ Hardware configuration
 - ☐ Software patching
 - ☐ SW and HW upgrades
 - ☐ Replace faulty equipment
- ☐ ... and everything is transparent to you !



Azure Cloud is Global

Azure Cloud is Global

- ❑ With Azure Cloud you can really go global in minutes; easily deploy your application in multiple regions around the world with just a few clicks
- ❑ This means you can provide lower latency and a better experience for your customers at minimal cost
- ❑ Azure Global Infrastructure



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Azure Cloud is Secure

Azure Cloud is Secure

- ❑ Azure Cloud is Secure, enforcing strict security policies at both physical and digital layers
- ❑ Physical security is Azure Cloud's responsibility: secure DCs, cameras, locks, specialized security personnel, etc.
- ❑ Digital security: Azure provides access to resources in the cloud only to authorized users
- ❑ More about Azure Security in Module 10



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Azure Cloud is Reliable

Azure Cloud is Reliable

- ❑ Azure Cloud is highly reliable, providing redundancy and fault tolerance to resources
- ❑ Azure Cloud infrastructure is built in order to accommodate disasters; if one component fails, a backup component will seamlessly take ownership, assuring service availability
- ❑ Data in your Azure storage account is replicated to ensure durability and high availability (min. 11 9s)



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Thank you