Design Azure project like a Pro

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Who am I

- Vladimir Stefanović

- Lead System Engineer @ **SUPER**ADMINS

- 10+ years of experience

- MCT, MCSE, Office365, Azure Architect

- Book author, conference speaker, technical trainer and Azure UG Leader

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Golden rules for designing Azure projects

- Understanding of Azure services and their purpose

- Understanding relationship between Azure services

- Proper naming convention

- Take care about networking

- Don't forget about **Security**

- Be aware that you need backup even you have cloud infrastructure

- Check with client twice about their needs ☺

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Demo / Case study 1
Moving Web Application to Azure

Requirements

- Move production web application to Azure

- Application is designed a long time ago and require 3rd party agents/tools

- Application must be able to scale during peak times

- 4 SQL databases are needed for production web application

- Access to SQL database need to be resticted as much as possible

- Application hosts must accessible only through private IP addresses

- Create isolated dev environment for developing new application

- Dev environment need 2 small SQL databases and don't need to be scalable

- PaaS need to be used whenever is possible

- Project costs must be reduced to the minimum

Azure resources that will be used

- Application layer – Production

- Application layer – Development

- Database layer

Demo / Case study 2
Extending on-prem workload to Azure

Requirements

- On-prem environment has domain infrastructure implemented (10+ servers)

- Client want to extend on-prem infrastructure to Azure in order to move complete infrastructure to Azure in phase 2

- Business application is clustered using Windows Server Failover Cluster

- One business application server and domain controller need to be deployed in Azure

- Communication need to be able only using private IP addresses

- On-prem infrastructure has up to 10 S2S VPN tunnels with external companies

- On-prem SQL server (physical machine) need to be virtualized and isolated to different subnet, with downtime reduced to minimum

Azure resources that will be used

- Networking layer
    - *Virtual Network with NSG per subnet*
    - *VPN Gateway (on-prem to Azure)*
- IaaS layer
    - *1x business applicaton server*
    - *1x domain controller*
    - *Internal load balancer*
    - *Availability Zones or Availability Sets*
- Database layer
    - *1x SQL VM*

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