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The Top 10 Azure Project mistakes

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System Engineer @Superadmins



Who am I

- Vladimir Stefanović
- System Engineer, 10+ years of experience
- MCT, MCSA, MCSE, Azure, Office365, Network & Security ...
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- www.tech-trainer.info



Books 😊

Installation, Storage, and Compute with Windows Server 2016: Microsoft 70-740 MCSA Exam Guide

Implement and configure storage and compute functionalities in Windows Server 2016

Packt>
www.packt.com

Sasha Kranjac and Vladimir Stefanovic

Identity with Windows Server 2016: Microsoft 70-742 MCSA Exam Guide

Deploy, configure, and troubleshoot identity services and Group Policy in Windows Server 2016

Packt>
www.packt.com

Vladimir Stefanovic and Sasha Kranjac

40%
Discount
ISCWS40



*All examples are found
in real-world projects*





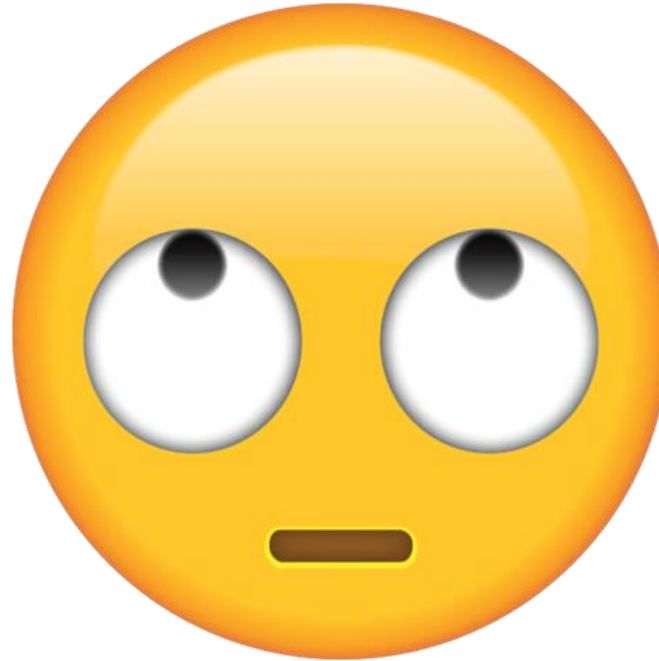
Don't make Azure like this one ☺

Type of mistakes

Easy to fix



Complicated to fix



Cannot be fixed



IaaS related mistakes

- Creating availability set and availability zone
 - *Cannot be added to virtual machine once is created*
- General understanding of virtual machine sizing
 - *Size does matter*
- Configuring static IP addresses in virtual machines
- Virtual machine vNet changing is not possible
- Trying to establish communication between virtual machines over public IP address

Network related mistakes

- vNet address space has same prefix as subnet
 - *This can be a big problem, but fortunately prefix can be changed*
- vNet name cannot be changed
- Subnet address space and name cannot be changed
- Network Security Groups
 - *Per VM or per group of VMs?*
- Public IP addresses
 - *Do we really need public IP address on each virtual machine?*
 - *Alternatives are Jump Box, ALB NAT rules or S2S/P2S VPN*

PaaS related mistakes

- Using single database instead elastic pools
- Creating new databases using SSMS
 - *All databases created using SSMS will be created as a Single Database*
- Azure Database for MySQL tier
 - *Changing to and from the Basic pricing tier after server creation is not supported*
- Enabling service endpoint instead of trying to add IP addresses to firewall rules

Security related mistakes

- Inappropriate permissions
 - *To many users are owner or contributor on subscription*
 - *To many global admins*
- Network Security Group offers you a warm welcome
 - *RDP and SSH ports are opened from internet*
- Backup is not included to IaaS by default

General mistakes

- General ignorance of Azure – The biggest one problem
 - *RBAC model*
 - *Difference between subscription, account and resources*
- Naming convention
- Misunderstanding regarding pricing models
 - *Fixed-consumption or time-consumption*
 - *Virtual machine OS disk pricing*

Thank you for your attention!



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