

Connecting the dots

Neum 27-29/3/2019

Vladimir Stefanović
Superadmins

NetWork 



The most common mistakes in Azure projects

NetWork

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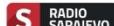
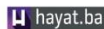
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Who am I



- Vladimir Stefanović
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Agenda



- IaaS mistakes
- Networking mistakes
- PaaS mistakes
- Security mistakes
- General

NOTE: All situations and cases appearing in this work are real.



Don't make Azure like this one 😊

IaaS Mistakes



- Creating availability set and availability zone
 - *Cannot be added to virtual machine once is created*
- General understanding of virtual machine sizing
- Pricing of virtual machine OS disk
 - *Is not counted to virtual machine price*
- 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

Networking 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, Azure Load Balancer NAT rules or S2S VPN*

PaaS 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 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
 - *Per hour, per minut, per service*
 - *Network bandwidth*



DA LI VAM SE SVIDJELO OVO PREDAVANJE?

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Ocjenjivanje predavanja kojima ste prisustvovali je moguće na dva načina:

1. Posjetom web stranici

<https://www.networkkonferencija.ba/profile/evaluation> vršite evaluaciju u sklopu svog korisničkog profila.

2. Ocijenite predavanja kroz konferencijske mobilne aplikacije pod nazivom NetWork Conference koje su dostupne za Android i iOS mobilne uređaje.

U oba slučaja potrebno je prijaviti se sa korisničkim računom sa kojim ste se registrovali za učešće na konferenciji.

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