



MAKE IT
cLOUD

Neum 18-20/4/2018

NetWork 

Optimiziranje dostupnosti web aplikacija pomoću oblaka

Hrvoje Kusulja
3 PRO d.o.o.

platinum sponsor

LOGOSOFT

telekomunikacijski sponsor

HT ERONET

oficijelni brend konferencije

Lenovo

gold sponzori

Addiko Bank


AUTHORITY PARTNERS

bh

 **COMTRADE**
DISTRIBUTION

EPSON
EXCEED YOUR VISION

KimTec

LANACO
INFORMACIONE TEHNOLOGIJE

 **nsoft**

PROINTER
IT SOLUTIONS AND SERVICES


SEMOS
we can give you everything you need

 **sys company**

teamwork
solution provider

veeam

silver sponzori


Volkswagen

PORSCHE
SARAJEVO


Audi

APP IMPACT
impacting your business

INFODOM

mistral
because it matters

PHILIPS
Televizori

prijatelji konferencije

communis

 **FANFAN**


GALAKTIKA

PROEVENT


SARAJEVO
BUSINESS
FORUM '18


UNIQA

W>
WeAreDevelopers

BREW

zvanično craft pivo

medijski sponzori

akta

 **ALJAZEERA**
BALKANS

20
STVBI.COM

Banke & Biznis

Banjaluka.com
—glasi banjalučki posetilac—

BHRT

 **bijesak.info**
BY, business people

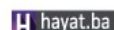
business

Dnevni list
—dnevni list iz Sarajeva—

FAKTOR

FBL

FENA FEDERAL
NEWS
AGENCY

 **hayat.ba**

HAYAT | HD

INFO
www.info.ba

 **Poduzetnik.ba**

racunalo
www.racunalo.com

REUNION

RSG
RADIO

STUDENT

STUDOMPT

TERMINAL

Ukratko o predavaču



Hrvoje Kusulja
struč. spec. ing. IT

- operativni direktor u 3 PRO d.o.o. / Zagreb
- Lenovo ThinkSystem i IBM System Storage
- Microsoft MCSA, MCTS, MCSE: SharePoint
- MCT, MVP: Office Servers and Services
- Više od 15 godina iskustva u IT industriji

Upravljanje web stranicama putem oblaka

- namijenjeno administratorima web stranica koje imaju sve više potreba
- Predavanje se bazira na iskustvu iz praktičnih implementacija/migracija na Public cloud
- Podrazumijeva se poznavanje osnova rada s Azure pretplatom i portalom

Životni vijek javne web stranice

Shared hosting	Standalone server (+VPS)	Public Cloud
Linux cPanel – PHP / MySQL	Linux Apache MySQL PHP	Public Cloud
Email service FTP for internal use DNS Other applications	Only web service (with database) cronjob	PaaS (+IaaS)

- Korisnik nije zadovoljan? – netko drugi preuzima projekt

Korak 0 (opcionally)

- Kontrola DNS-a na jednom mjestu - Lakše upravljanje
- Azure DNS - migracija nameservera
 - ns1-01.azure-dns.com
 - ns2-01.azure-dns.net
 - ns3-01.azure-dns.org
 - ns4-01.azure-dns.info

Korak 1 – Azure storage account

- Migracija statičnog sadržaja
 - JavaScript, CSS...
 - Fontovi, SVG ...
 - Galerije slika (proizvodi, osobe, timovi...)
- Azure Storage account
 - Čuva pohranu podataka (Blob tip)
 - Definira cache nad datotekom
- Ažuriranje web-admin alata za postavljanje novih datoteka / slika
- Postavljanje domene (+ CORS)

Korak 2 - Faza 2 - Azure Content Delivery Network

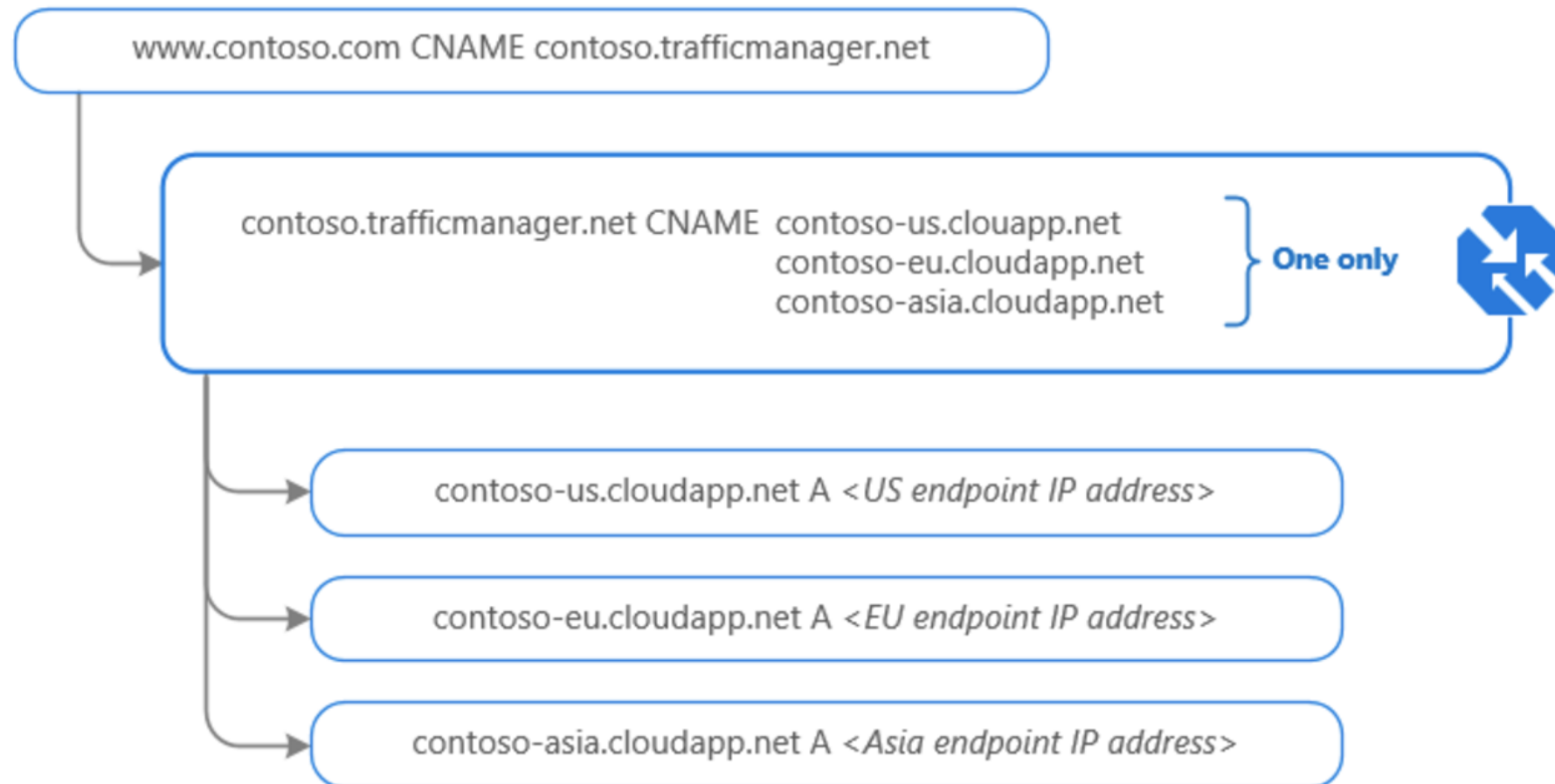
P1 Premium Verizon	S1 Standard Verizon	S2 Standard Akamai
 All standard features	 Endpoint HTTPS	 Endpoint HTTPS
 Token authentication	 Custom domain HTTPS	 Content Purge
 Performance analytics	 Content Purge/Load	 Compression
 Realtime analytics	 Compression	 Query strings caching
 Mobile device rules	 Query strings caching	 Geo-filtering
 Custom rules engine	 Geo-filtering	
 Cache/Header settings	 Core analytics	
 URL redirect/rewrite		
0.170 MIN USD PER GB UP TO 10TB	0.087 MIN USD PER GB UP TO 10TB	0.087 MIN USD PER GB UP TO 10TB

Korak 2 - Faza 2 - Azure Content Delivery Network

- Verifikacija domene
- Konfiguracija kompresije datoteka
- Podešavanje rule-ova, CORS
- Rewrite za SPA
- Monitoring prometa i requestova, real time monitoring

Migracija – Azure Traffic manager

- Usmjeravanje prometa bazirano na DNS – CNAME zapisima



Traffic manager routing methods

- Priority
 - Primarni i backup zapisi, sukladno dostupnosti endpoint -a
- Weighted
 - Distribucija zapisa sukladno zadanom Weight broju
- Performance
 - Distribucija prema najnižem endpointu prema mrežnoj latenciji
- Geographic
 - Suukladno zemljama/regijama usmjeravanje korisnika
- Nested endpoints

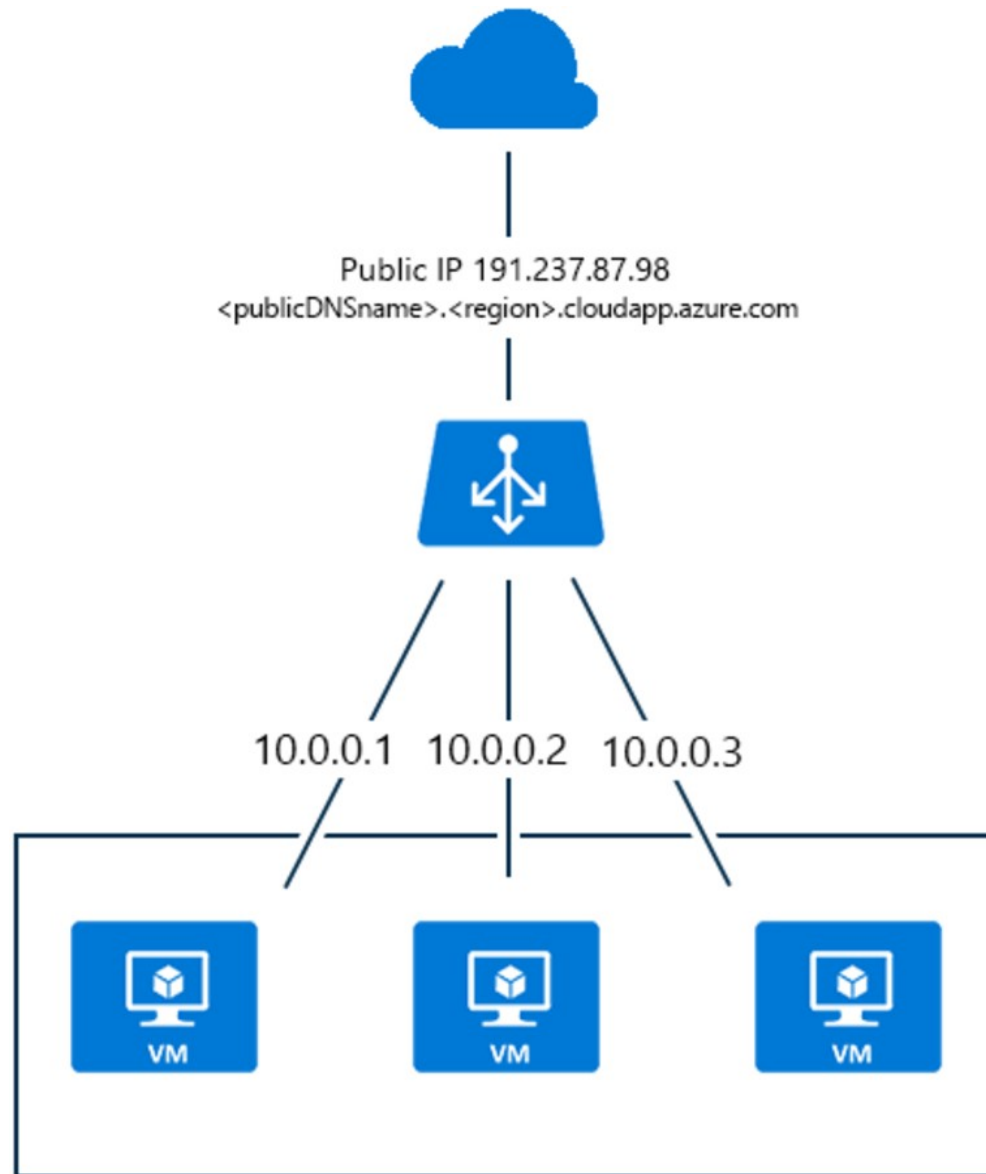
Korak 3 - Backend

- Azure Web App
 - Konfiguracija općenito
 - Dodatni PHP moduli
 - Skaliranje
 - Stateless
- Dodatne pogodnosti
 - Integrirani Backup
 - Deployment slots
 - ...

Korak 4 - Database

- Azure SQL baza podataka
- MySQL u Azure-u
 - Za sada samo kroz IaaS / VM (DSv2 – Premium SSD)
 - Dimenzija virtualke
 - Postavke OS-a (noatime za linux i sl.)
 - Load balanceri i portovi
 - Ili novo - Azure MySQL as a Service
- Redis cache (Basic, Standard, Premium (cluster))

Azure Load Balancer



Dodatne opcije

- Azure Application insights
- Visual Studio Team Services
 - GIT
 - Task management / Agile
 - Build and publishing – continuous delivery

Zaključak

- Koristite što vam odgovara
 - Migrirajte sve ili samo neke servise
- Radite pažljivo i s planom, testirajte s manjim sustavima
- Potpora managementa, IT-a i Dev odjela
- Razlog zašto radite (održavanje, cijena, mogućnosti)
- Fokusirajte se na poslovnu potrebu i njezino poboljšavanje (nadgledanje i upravljanje sustavom)
- Primjenjivo na interne i javne web aplikacije

Thank you!
Hvala vam!



hkusulja@3pro.eu



/hkusulja



@hkusulja



3 PRO d.o.o.

3pro@3pro.eu

www.3pro.eu

+385 1 3333 850