

Što se promijenilo u
licenciranju /
korištenju proizvoda
sa dolaskom
Oblačnih rješenja
(Cloud)

Tomislav Lulić
Cloud Consulting
Manufaktura za Oblačne proizvode



Connecting
the dots

Neum 27-29/3/2019

NetWork

NetWork

powered by:



platinum sponzor

LANACO
INFORMACIONE TEHNOLOGIJE

platinum sponzor

LOGOSOFT

telekomunikacijski sponzor

HT ERONET

oficijelni brend konferencije

Lenovo

gold sponzori

Addiko Bank



PROINTER
IT SOLUTIONS AND SERVICES



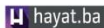
silver sponzori



prijatelji konferencije



medijski sponzori



O predavaču...



Office Apps & Services
[Office 365]

Više od 20 godina u IT-u

- IT u raznim industrijskim granama (Logistics, Steel, Food, Pharmaceuticals)
- Vlasnik manufakture za korištenje Oblaka

Cloud, privatni Cloud, On-Premise infrastruktura

- Software Asset Management i životni ciklus softvera i hardvera

ISO 27001/ISO 20000 auditor

Microsoft Community Hrvatska

- Microsoft EDU ITPro grupa
- Microsoft ITPro grupa



Microsoft Community

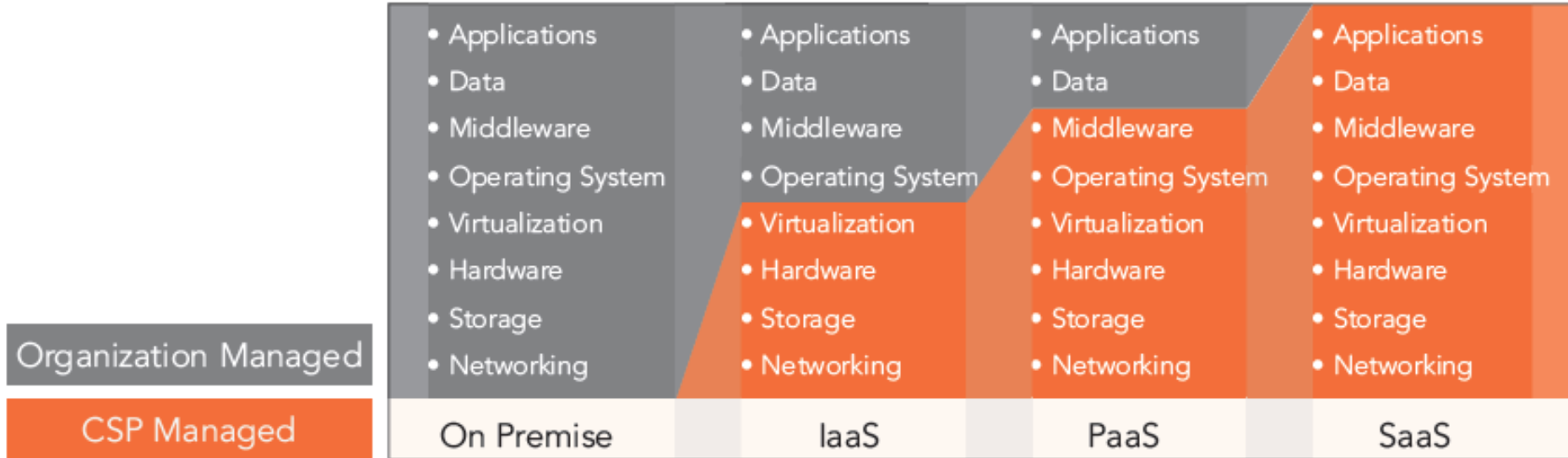
Cloud Consulting
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- Uvod
 - Servisi u Oblaku
 - Microsoft 365, Azure
- Office/Microsoft 365
- Office 365 Adoption and Consumption
- Azure
- Razno
- Još koja riječ o ostalim proizvodima

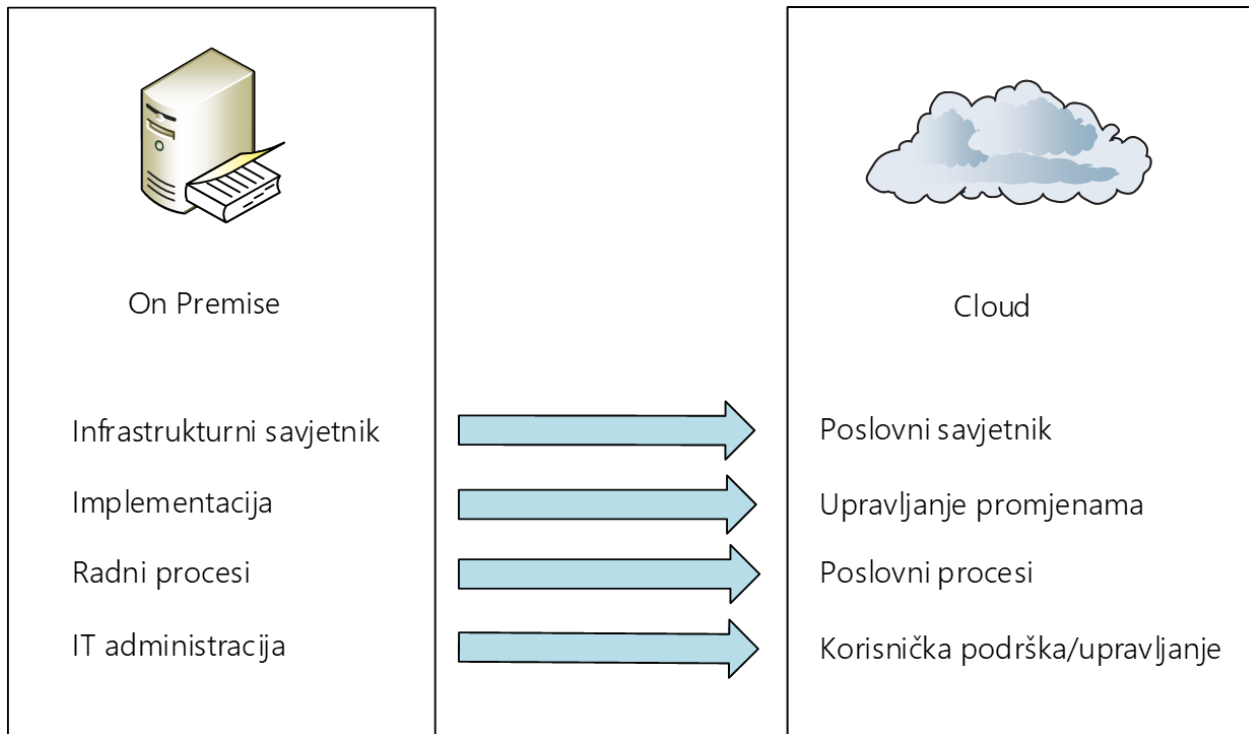
NetWork 9

Tranzicija: On-Premise – Oblak



CSP – Cloud Service Provider

National Institute of Standards and Technology (NIST) 2013.





On-Premise

- serveri i oprema nalaze se unutar tvrtke i administrirani su od strane interne IT službe

Privatni Oblak

- oprema je smještena na kolokaciji, upravljana od strane internih IT ljudi i ljudi na strani pružatelja usluga

Javni Oblak

- upravljanje data centrima povjereno je trećoj strani, korisnik iznajmljuje servise (plaćanje po korisniku ili mjesecu). Elastičnost usluge



Prednost

- Nema brige o prizemnim stvarima (održavanje)
- Dostupnost neovisno o lokaciji i uređajima
- Jednostavnost i unificiranost (uštimate aplikacije)
- OPEX

Nedostaci

- Skuplji servis ako se ne isplanira dobro
- Nemogućnost migracije baš svega u Oblak (Cloud)
- djelomična potreba za On-premise opremom
- Briga o QoS-u na mreži (Internet)
- Ovisnost o pružateljima usluga (Internet, Cloud)



- Office
- Serveri
 - Windows, Exchange, SharePoint
- SQL



- Migracija 1-na-1
 - Virtualne mašine
 - Baze podataka
 - Preslikavanje mrežne infrastrukture



- Upravljanje promjenama
 - Preraspodjela licenca
 - Čuvanje podataka korisnika (redention)



- Najvažnije je planiranje
- Snimanje stanja i korisničkog ponašanja
- Software Asset Management – SAM
- Korišćenje MAP alata
 - DEMO

Servisi u Oblaku



All services

Everything

General

Compute

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + machine learning

Internet of things

Integration

Identity

Security

DevOps

Migrate

Management + governance

Intune

Other

GENERAL (15)

All resources

Subscriptions

Reservations

Service Health

What's new

Recent

Resource groups

Marketplace

Templates

Quickstart Center

Management groups

Cost Management + Billing

Help + support

Tags

Shared dashboards

COMPUTE (23)

Virtual machines

Container services (deprecated)

Container instances

Mesh applications

Availability sets

Snapshots

VM images (classic)

CloudSimple Virtual Machines

Virtual machines (classic)

Function App

Batch accounts

Cloud services (classic)

Disks

Images

Citrix Virtual Desktops Essentials

SAP HANA on Azure

Virtual machine scale sets

App Services

Service Fabric clusters

Kubernetes services

Disks (classic)

OS images (classic)

Citrix Virtual Apps Essentials

NETWORKING (27)

Virtual networks

Application gateways

DNS zones

Virtual networks (classic)

Virtual network gateways

CDN profiles

Load balancers

Local network gateways

Traffic Manager profiles

Office/Microsoft 365



Usporedba Microsoft 365 Business i Office 365 Business Premium

Features (new in blue)		Office 365 Business Premium	Microsoft 365 Business
Get More Done and Work Better Together	Collaboration Tools Email, Groups, Teams, Yammer	•	•
	Online Meetings & HD Conferencing IM, Meetings, Audio & Video Conferencing	•	•
	Online Document Storage OneDrive for Business	•	•
	Content Creation Client Office apps on PC, Mac, Android & iOS	•	•
Build Your Business	Customer Management Lightweight CRM	•	•
	Scheduling Bookings, Shifts	•	•
Safe Guard Your Business	Simplified Device Setup Windows Autopilot, Automatic Office Install		•
	Device Management Intune MDM for Windows, MacOS , iOS & Android		•
	Windows Management and Advanced Device Security Enabling management of Win 10 Pro, BitLocker encryption, Upgrade rights to Windows 10 Pro for 7/8.1 Pro licenses		•
	Data Security and Policies Selective data wipe, Azure Information Protection P1 , Intune app protection		•
	Email and Document Security Data Loss Prevention , Office 365 ATP , Exchange Online Archiving , Litigation Hold , eDiscovery		•

Detailed comparison of plans

Features (new in blue)		Office 365 BP	Microsoft 365 Business	Microsoft 365 E3	Microsoft 365 E5
	Maximum number of users	300	300	unlimited	unlimited
Office Apps	Install Office on up to 5 PCs/Macs + 5 tablets + 5 smartphones per user (Word, Excel, PowerPoint, OneNote, Access), Office Online	Business	Business	ProPlus	ProPlus
Email & Calendar	Outlook, Exchange Online	50GB	50GB	unlimited	unlimited
Chat-based Workspace, Meetings	Microsoft Teams	•	•	•	•
File Storage	OneDrive for Business	1 TB	1 TB	unlimited	unlimited
Social, Video, Sites	Yammer, SharePoint Online, Planner	•	•	•	•
	Stream			•	•
Business Apps	Scheduling Apps – Booking, StaffHub	•	•	•	•
	Business Apps – Outlook Customer Manager, MileIQ ¹ , Invoicing	•	•		
Threat Protection	Microsoft Advanced Threat Analytics, Device Guard, Credential Guard, App Locker, Enterprise Data Protection, Office 365 Advanced Threat Protection		•	•	•
	Windows Defender Advanced Threat Protection				•
	Office 365 Threat Intelligence				•
Identity & Access Management	Azure Active Directory - SSPR Cloud Identities, MFA, SSO >10 Apps		•	•	•
	Azure Active Directory - Conditional Access, SSPR Hybrid Identities, Cloud App Discovery, AAD Connect Health			•	•
	Credential Guard and Direct Access			•	•
	Azure Active Directory Plan 2				•
Device & App Management	Microsoft Intune , Windows Autopilot		•	•	•
	Microsoft Desktop Optimization Package, VDA			•	•
Information Protection	Unlimited Exchange Archiving³ , Office 365 Data Loss Prevention , Azure Information Protection Plan 1		•	•	•
	Azure Information Protection Plan 2, Microsoft Cloud App Security, O365 Cloud App Security				•
On-Prem CAL Rights	ECAL Suite (Exchange, SharePoint, Windows, SCCM, Win. Rights Management)			•	•
Compliance	Litigation Hold , eDiscovery , Compliance Manager , Data Subject Requests		•	•	•
	Advanced eDiscovery, Customer Lockbox, Advanced Data Governance				•
Analytics	Power BI Pro, MyAnalytics				•
Voice	PSTN Conferencing, Cloud PBX				•

[1] Available in US, UK, Canada; [2] Currently in public preview in US, UK, Canada; [3] Unlimited when auto-expanding turned on



Business

- Ograničeno na do 300 korisnika
- Za manje tvrtke

Enterprise

- Bez ograničenja

Kiosk

- Ograničene mogućnosti
- Namijenjeno za radnike bez računala sa osnovnim mogućnostima



Office 365 Business

- Office klijent
- Office Online
- Osobni podaci

Office 365 Business Essential

- **Dobar za osnovnu kolaboraciju**
- Office Online
- Email
- Communicator
- Personal Files
- Social Network
- Intranet

Office 365 Business Premium

- Office klijent
- Office Online
- Email
- Communicator
- Personal Files
- Socijalne mreže
- Intranet



Office 365 Pro Plus

- Osnovni servisi
- Office klijent
- Office Online
- Personal Files

Enterprise E1

- Osnovna kolaboracija
- Office online
- Licenčna prava (osnovna)
- E-mail
- Communicator
- Personal Files
- Intranet
- Social Networking
- Video Portal
- Tasks
- Search

Enterprise E3

- Napredna kolaboracija
- Office PC, Mac, Mobile
- Office Online
- Licenčna prava (enterprise)
- E-mail
- Communicator
- Personal Files
- Intranet
- Social Networking
- Video Portal
- Tasks
- Search
- Basic Data Analytics
- Basic Security

Enterprise E5

- Sve mogućnosti O365
- Office PC, Mac, Mobile
- Office Online
- Licenčna prava (enterprise)
- E-mail
- Communicator
- Personal Files
- Intranet
- Social Networking
- Video Portal
- Tasks
- Search
- Basic + Adv. Data Analytics
- Basic + Adv. Security
- Voice (PSTN, PBX)



Zapamtiti:

Exchange Online Kiosk

Exchange Kiosk

- mali 2GB Mailbox dostupan browserom ili POP3 protocol
- Nema sinhronizacije sa Outlookom
 - Browser ili POP3

Enterprise Kiosk

- Dodan Office Online
- Dodan Yammer
- Nema mogućnost Skype for Business

Enterprise K1 Kiosk

- Osnovni mail servis i socijalna mreža
- Office Online
- Email
- Browser ili POP3
- Intranet
- Social Network



- Office 2019
 - Instalacija sa medija
 - Volume License
 - Licenca po uređaju
- Office ProPlus
 - Instalacija online
 - Click-to-run licenca
 - Licenca po korisniku



Razlika između Office 365 Business i Office 365 Pro Plus

- Business nema Publisher, Access i S4B app
- Ne može se koristiti:
 - Excel Power Maps
 - Power Query
 - Power Pivot
 - Security features



Razlika između E1 i E3

- Više security opcija u E3
- Mogućnost korištenja Enterprise on-premise licenci



- 5 računala
- 5 tableta
- 5 mobitela

To NE znači da 15 korisnika smiju koristiti jednu licencu.



- Dozvoljeni upgrade:

Windows 10 Enterprise E3/E5 User Subscription License

- Predzahtjevi: Kvalificirani OS:
 - Windows 7, 8.1 or 10 Pro or Enterprise license



- Gdje pogledati?
 - Admin portal
 - Broj licenci i količina
- Dodjela licenci unutar portala



- Exchange
 - Veličina mailboxa i arhive
- Grupe/Teams
 - Veličina mailboxa, SharePoint storage itd
- SharePoint Online
 - Quote, Storage

NetWork 9

Korištenje resursa



Check out the new SharePoint admin center
All your sites. All the latest features.

Site Collections

New

Delete

Contribute

Properties

Owners

Sharing

Storage Quota

Buy Storage

Server Resource Quota

Upgrade

Project Web App

Recycle Bin

Restore

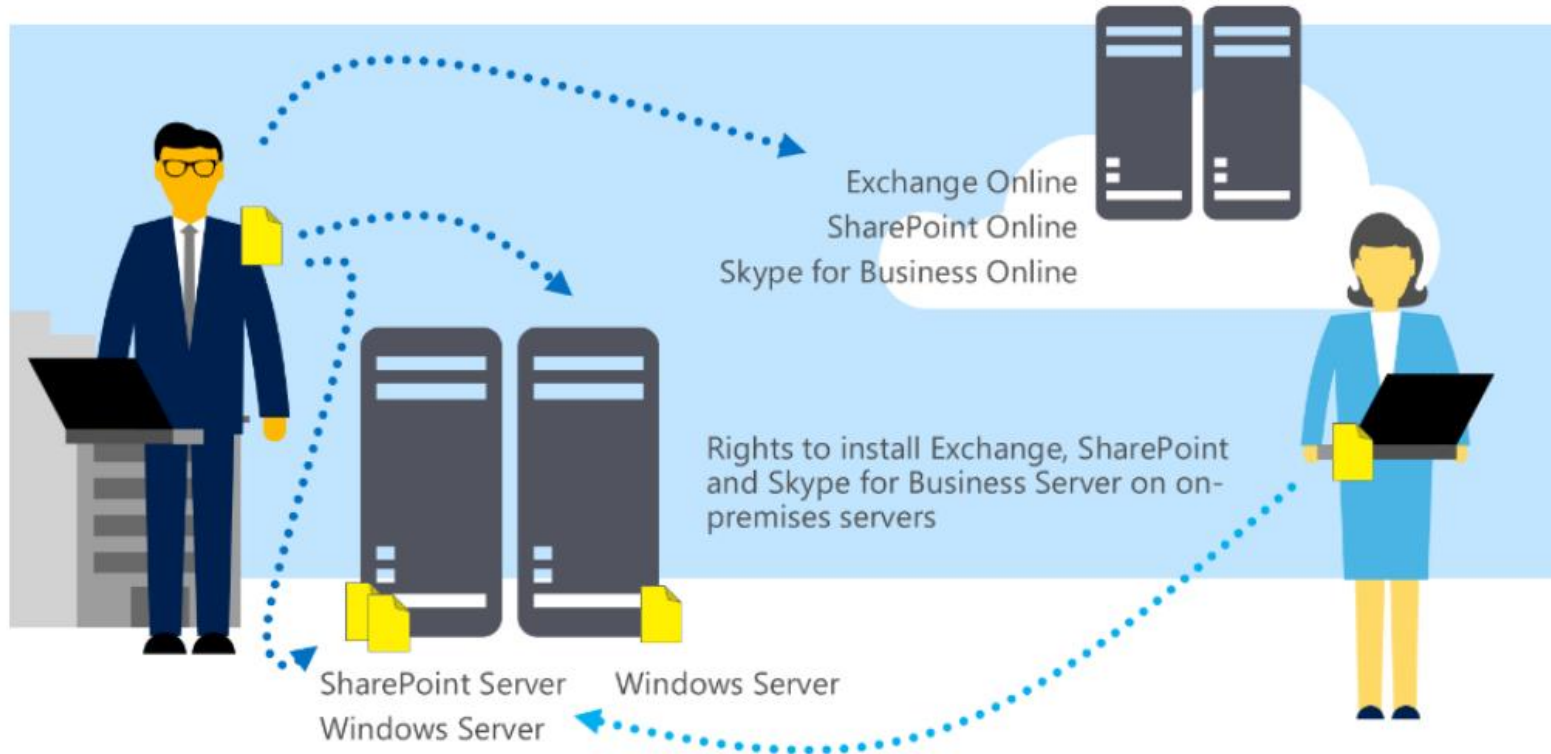
Search by URL...

1.30 TB available of 1.30 TB

6050 resources available

9998 PWA instances available

☒ URL	STORAGE USED (GB)	STORAGE LIMIT (GB)	PERCENT USED	SERVER RESOURCE QUOTA
☒ https://hapovel.sharepoint.com	0.05	0.98	5.10 %	150
☒ https://hapovel.sharepoint.com/portals/community	0.00	0.00	0.00 %	0
☒ https://hapovel.sharepoint.com/portals/hub	0.00	0.00	0.00 %	0
☒ https://hapovel.sharepoint.com/search	0.03	0.98	2.60 %	0
☒ https://hapovel.sharepoint.com/Sites/eDiscoveryCenter	0.00	0.29	1.00 %	300
☒ https://hapovel.sharepoint.com/sites/KBD	0.03	2.93	0.87 %	200
☒ https://hapovel.sharepoint.com/sites/nabava	0.00	4.88	0.06 %	300
☒ https://hapovel.sharepoint.com/sites/pwa	0.14	1.95	7.40 %	200
☒ https://hapovel.sharepoint.com/sites/test	0.00	5.00	0.04 %	300
☒ https://hapovel-my.sharepoint.com	0.00	0.05	4.00 %	0





M365 E3 i E5 kroz Enterprise Agreement

- Exchange Server, SharePoint Server, S4B Server
 - Rights to install the server software an unlimited number of times on servers dedicated to the customer's use
 - Downgrade rights included
 - Rights to access servers licensed with Volume Licensing licenses

NetWork 9

On-premises server prava - nastavak



- Microsoft 365 Enterprise E3 and E5 User SLs license a user for access to Windows Server, **but do NOT license** the Windows Server product itself
- Other required products, such as SQL Server, **must also be licensed** separately
- Users licensed with CALs acquired through a Volume Licensing agreement **are not eligible to access servers** licensed with these on-premises server rights
- Users **licensed with the three components** rather than the single Microsoft 365 Enterprise User SL also receive these rights



- Licence mogu biti dodijeljene bilo kojoj Security grupi u Azure AD.
- Security grupe mogu biti syncane sa on-premise sustava, na Azure AD ili dinamičke AAD grupe
- Za upravljanje licencama:
 - license administrator
 - user administrator
 - global administrator

DEMO



Home > Licenses - All products

Licenses - All products

Cloud Consulting - Azure Active Directory

<< [+ Try / Buy](#) [+ Assign](#) [Columns](#)

- Overview
- Getting started
- Manage
 - All products
- Activity
 - Audit logs
- Troubleshooting + Support
 - Troubleshoot
 - New support request

Home > Cloud Consulting > Licenses - All products > Assign license > License options

Assign license

Cloud Consulting

- ★ Users and groups
None Selected
- Assignment options
Assignment options

License options

Enterprise Mobility + Security E3	
Azure Active Directory Premium P1	Off On
Azure Information Protection Premium P1	Off On
Cloud App Security Discovery	Off On
Microsoft Azure Active Directory Rights	Off On
Microsoft Azure Multi-Factor Authentication	Off On
Microsoft Intune	Off On



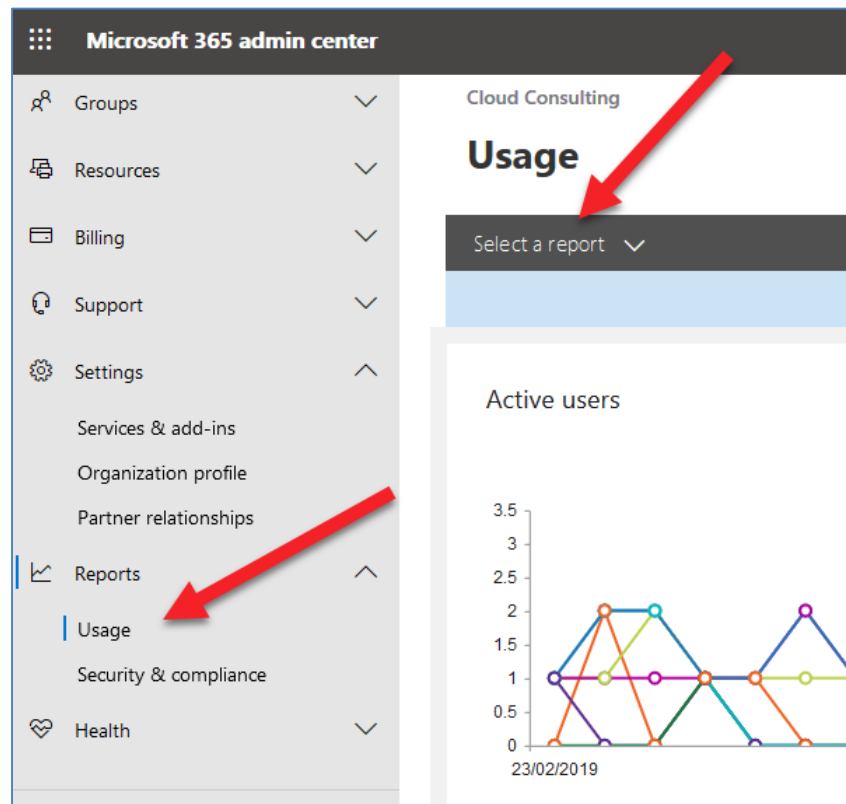
- <https://roi-transform.microsoft.com/#/>
- <http://www.office365monthly.com/costs-calculator/>

Office 365 Adoption and Consumption





- Čemu služi?
— DEMO





Tko može vidjeti izvještaje?

- Office 365 global admins
- Exchange admins
- SharePoint admins
- Skype for Business admins
- Reports reader

Azure





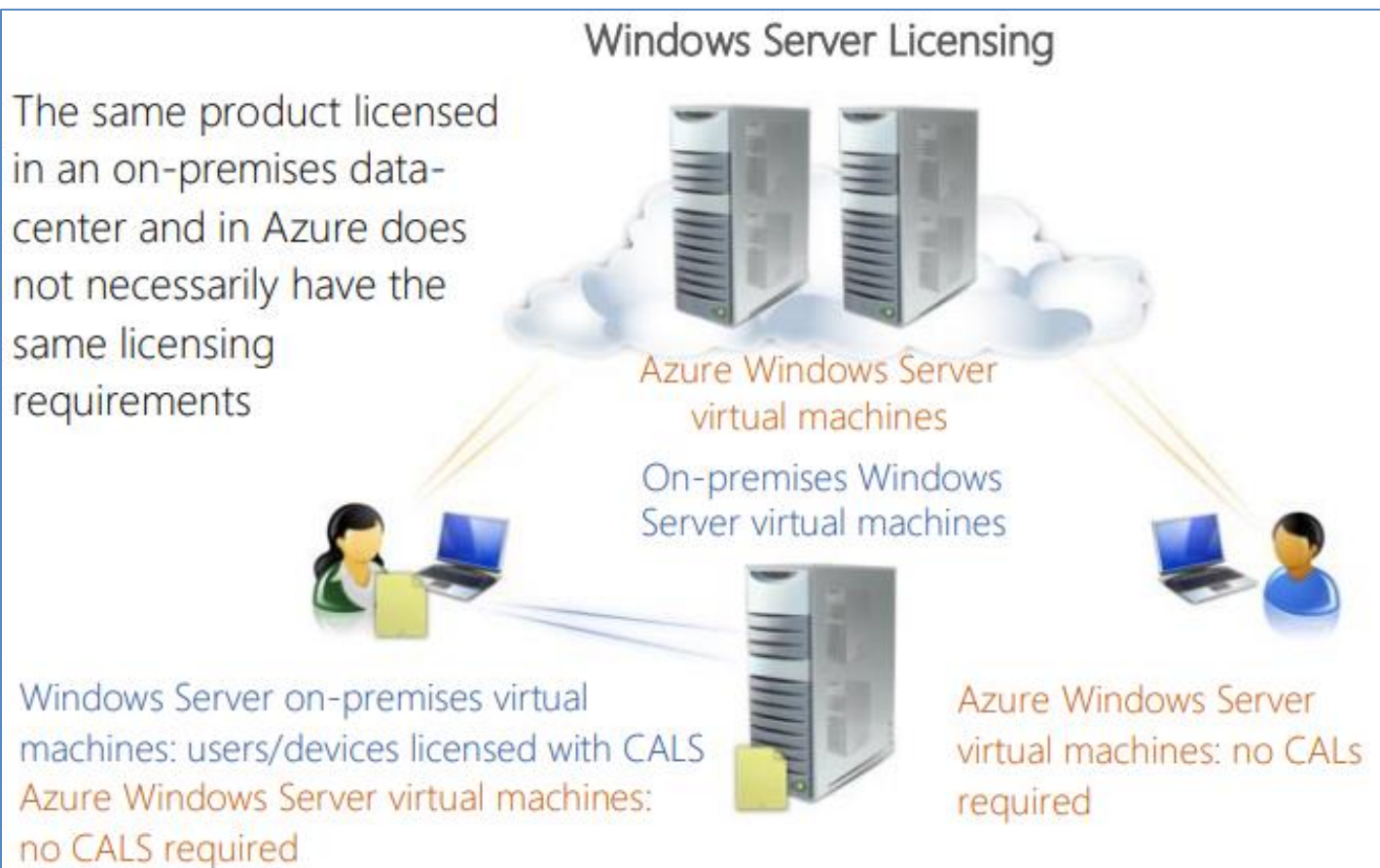
Consumption bazirani servisi	Licenciranje po korisniku
Nabavka unaprijed sa monetarnom obavezom	Licenciranje po korisniku na mjesečnoj bazi
- Storage: EUR/GB i EUR/transakcija - Virtualni strojevi: EUR/sat - Web sajt: EUR/sat - Database: EUR/sat	- Azure Active Directory: Korisnička licenca - Azure Information Protection: Korisnička licenca

Azure pricing calculator - <https://azure.microsoft.com/en-us/pricing/calculator/>



- IaaS
 - preslikavanje je najskuplje
- PaaS
 - prilagodba aplikacija i ponašanja developera i korisnika
- SaaS
 - najisplativije rješenje, no mijenja ponašanje i procese iz korijena
 - Često i nemoguće

Prava na korištenje lokalno i Cloud?



Razno





Sustavi u Cloudu rade pouzdano, no...

Recycle bin ili zadržavanje nije backup

Neki od alata:

- Veeam
- Azure Backup
- Third party alati
 - Ima svega i svačega, treba paziti...

Još koja riječ o
ostalim proizvodima





Author

Power BI Desktop

Free

[DOWNLOAD FREE >](#)

Connect to hundreds of data sources

Clean and prepare data using visual tools

Analyze and build stunning reports with custom visualizations

Publish to the Power BI service

Share and collaborate

Power BI Pro



per user
per month

[TRY FREE >](#)

Build dashboards that deliver a 360-degree, real-time view of the business

Keep data up-to-date automatically, including on-premises sources

Collaborate on shared data

Audit and govern how data is accessed and used

Package content and distribute to users with apps

Scale large deployments

Power BI Premium

Capacity pricing

per node
per month

[PLAN YOUR COSTS >](#)

Share data with users inside and outside your organization without purchasing a per-user license

Allocate, control, and manage your dedicated server capacity

Unlock higher limits for Pro users with datasets up to 10 GB and refresh up to 48 times per day

Access interactive and paginated reports online or use Power BI Report Server for on-premises reporting

Deploy in the geographic region of your choice

NetWork 9

Power BI



Plan 1

For apps that connect to all your enterprise data sources including the [Common Data Service for Apps](#)



Plan 2

For apps that model multi-stage business processes and include richer business logic with the full power of the [Common Data Service for Apps](#)



Access to Dynamics 365 restricted entities ⓘ

Read-only

Common Data Service for Apps Database capacity (per user license) ⓘ

20 MB

200 MB

Automate business processes

Included Microsoft Flow plans

[Includes Flow Plan 1](#)

[Includes Flow Plan 2](#)

Flow runs per month (per user)

4,500

15,000

Use business process flows in your model-driven apps



Manage environments

Supports data policies established by the Office 365 administrator



Enterprise-grade administration of environments and user policies



Establish company policies regarding the usage of different connections and apps



Create and manage environments to deploy apps, flows and database in the Common Data Service for Apps (per user) ⓘ

2



Citrix can extend Windows Virtual Desktop
Windows Virtual Desktop with Samsung DeX.

Access to Windows Virtual Desktop

- To deploy and manage
 - need to set up an Azure subscription.
 - type of virtual machines (VMs) and storage
 - optimize costs by using multi-session Windows 10.



- <https://azure.microsoft.com/en-us/pricing/calculator/>





DA LI VAM SE SVIDJELO OVO PREDAVANJE?

Ocijenite ga i osvojite vrijedne nagrade!

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.

Ispunjavanjem upitnika, pomažete Organizatoru u organizaciji narednih konferencija.

