Upute za Microsoft Azure (virtual machine)

Prvi korak koji se mora napraviti je otići na stranicu <u>Microsoft Azure for students</u>. Nakon toga pritisnemo na gumb "Start free"

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Sada nam se prikazuje prozor za login. U njemu upisujemo svoj email od veleučilišta (npr. *"korisničko ime"@veleri.hr*). Nakon što smo upisali email pritisnemo gumb *"Dalje"*.



Sljedeće nam se otvara prozor za prijavu od AAi@EduHr. Unutra upisujemo svoje podatke od veleučilišta (npr. *"korisničko ime"@veleri.hr*).

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Nakon šta smo se prijavili otvara nam se stranica od Microsoft Azure. Pritisnemo Microsoft Azure.



Sada smo na glavnoj stranici od Microsoft Azure. Da bi pronašli naše besplatne alate tj. Servise moramo u tražilicu potražiti *"Education"*. Kada smo odabrali *"Education"* otvara nam se stranica gdje se nalaze naši besplatni alati.



Da bismo vidjeli sve naše alate moramo pritisnuti opciju "*Explore all*" pod "*Free Services*". Kada smo pritisnuli, pokazuje nam se svi alati koje možemo koristiti besplatno.



Za primjer ćemo odabrati Linux virtualno mašinu. Da bi napravili virtualnu mašinu moramo prvo pritisnuti gumb *"Create"*. Kada smo pritisnuli otvara nam se nova stranica na kojoj se nalaze opcije za virtualnu mašinu.

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Pod opcijom "*Subscription*" postavljamo opciju "*Azure for Students*", a pod "*Resource group*" moramo prvo napravit novu grupu tako da pritisnemo "*Create new*" i napišemo kako će se zvati. Za "*Virtual machine name*" stavljamo kako će nam se zvati virtualna mašina. Za "*Region*" stavljamo "*Europe*". Za "*Image*" možete odabrat bilo koji os koji želite.

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Size * 🛈

Standard_B1s - 1 vcpu, 1 GiB memory (\$8.25/month) See all sizes \sim

Za opciju "Authentication type" stavljamo opciju "password". Za "Username" i "Password "stavljamo ime korisnika i lozinku s kojim ćemo se prijavljivat u virtualnu mašinu.

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network access on the Networking ta Public inbound ports * ①	None None Allow selected ports	
Select inbound ports *	SSH (22)	
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licensing		
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Review + create <	Previous Next : Tags >	

Kada smo ispunili sve opcije pritisnemo "*Review* + *create*".



Ako su svi podaci ispravni, na vrhu stranice će se pojavit poruka "*Validation passed*", to znači da su podaci ispravi i možemo napraviti virtualnu mašinu. Da bi napravili virtualnu mašinu pritisnemo gumb "*Create*" i virtualna mašina će se napraviti.

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Create a virtual machi	ne …
Validation passed	
Basics Tags Review + create	
You have set SSH port(s) open to t back to Basics tab.	he internet. This is only recommended for testing. If you want to change this setting, go
Ubuntu Server 16.04-LTS Image	Standard B1s 1 vcpu, 1 GiB memory
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Subscription	Azure for Students
Resource group	LinuxTest
Virtual machine name	LinuxTest
Region	North Europe
Image	Ubuntu Server 16.04-LTS - Gen1
Size	Standard B1s (1 vcpu, 1 GiB memory)
Authentication type	SSH public key
Username	TestLinux
Key pair name	LinuxTest_key
Public inbound ports	SSH
Azure Spot	No
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Create < Pr	evious Next > Download a template for automation

Kada smo pritisnuli "*Create*" otvorit će se stranica na kojoj prikazuje da se virtualna mašina stvara "*Deployment is in progress*", kada virtualna mašina napravi prikazat će sljedeću poruku "*Your deployment is complete*"



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👶 Overview	Your deployment is complete	
 E Outputs Template 	Deployment name: CreateVm-credativ.debian-9-20221201082622 Start time: 12/1/2022, 8:27:01 AM Subscription: Azure for Students Resource group: Test	0
	 Deployment details Next steps 	Cost Management Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >
	Setup auto-shutdown Recommended Monitor VM health, performance and network dependencies Recommended	0
	Run a script inside the virtual machine Recommended Go to resource Create another VM	Microsoft Defender for Cloud Secure your apps and infrastructure Go to Microsoft Defender for Cloud >
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Nakon šta se virtualna mašina napravila idemo u "*Home"* tj. Kliknemo na "*Microsoft Azure"*. I onda pritisnemo opciju za prikaz izbornika u gornjem lijevom kutu.



Otvara nam se izbornik na kojem ćemo odabrat "Virtual machines".



Otvara nam se stranica gdje možemo vidjet naše napravljene virtualne mašine. Pritisnemo na našu virtualnu mašinu da vidimo detalje.

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Moramo pronaći javnu IP adresu od virtualne mašine kako bismo mogli pristupit.



Da se spojimo na našu virtualnu mašinu moramo koristiti programe koje omogućuju spajanje sa SSH protokolom. To možemo preko CMD-a, terminala ili s drugim aplikacijama (npr. PuTTY).

Spajanje na virtualnu mašinu sa CMD

Prvo moramo pokrenut CMD, te upisat sljedeću komandu: ssh "ime korisnika"@"javni IP od virtualne mašine" (npr. ssh LinuxTest@192.1.1.1).



Kada upišemo komandu i pokrenemo je prikazat će nam se poruka unutar CMDa za koju moramo napisat *"yes"* da se izvrši konekcija prema virtualnoj mašini.



Kada smo upisali "yes" pritisnemo "Enter" na tipkovnici i CMD će se povezati na virtualnu mašinu. Sljedeće nas pita da unesemo lozinku virtualne mašine, tj. Lozinku korisnika. Dok se upisuje lozinka, ona se neće prikazivati u CMD-u kao da nismo ništa napisali ali u stvari jesmo, nego je skriveno zbog sigurnosnih razloga. Kada smo upisali lozinku pritisnemo "Enter" tipku nakon čega ćemo biti ulogirani.





Kada smo ulogirani možemo koristiti virtualnu mašinu.

Spajanje na virtualnu mašinu sa aplikacijom PuTTY

Da se spajamo na virtualnu mašinu sa PuTTY, prvo moramo preuzeti aplikaciju koju možete na ovome <u>linku</u>.



Kada se preuzme i instalira program, pokrećemo ga i otvara se njegov prozor u kojem nas pita da upišemo IP adresu. Tu upisujemo IP adresu od virtualne mašine i pritisnemo gumb "*Open"*.

🕵 PuTTY Configuration		? ×
Category: Session Logging Terminal Keyboard	Basic options for your PuTTY set Specify the destination you want to connect Host Name (or IP address)	ssion ct to <u>P</u> ort
— Bell — Features ✓ Appearance Behaviour Translation Selection	Connection type: Ostal SSH Setial Other: Telne Load, save or delete a stored session Saved Sessions	t
Connection → Connection → Proxy → SSH → Serial → Telnet	Default Settings	Load Sa <u>v</u> e Delete
	Close window on e <u>xi</u> t: Always Never Only on cl	ean exit Cancel

Otvara nam se prozor na kojem pritisnemo "Accept" da se spojimo na virtualnu mašinu.



Postupak je isti kao i kod CMD-a, samo šta nas prvo pita korisničko ime da unesemo pa onda tek lozinku.

