MSCommunity.ba

//GR8! 8. MSCOMMUNITY BIH KONFERENCIJA



### //GR8!

















































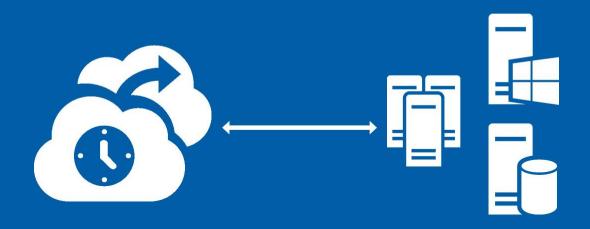












### Microsoft Azure Backup

Full Stack Backup Solution

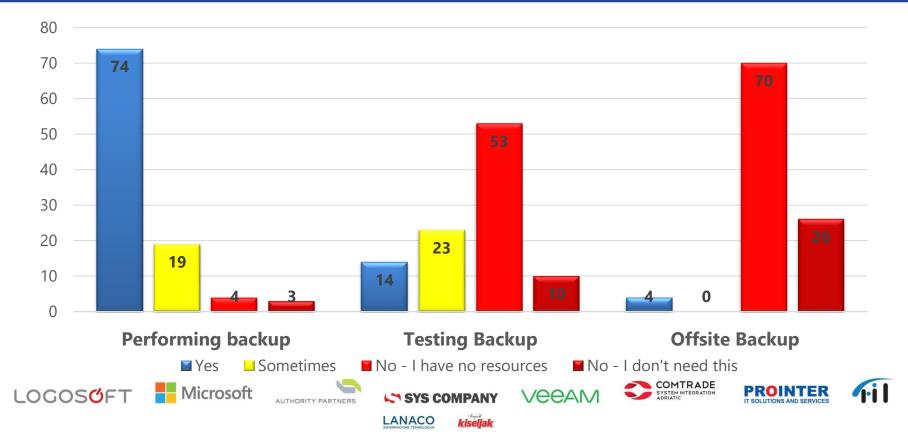
### Who am I

- Vladimir Stefanović
- Lead System Engineer / CSA@SuperAdmins
- 10+ years of experience
- MCT, MCSE, Azure Architect
- Author, speaker, trainer and Azure UG Leader
- @Wladinho31



## Some (stupid) stats





## Azure Backup Features



- Microsoft implementation of cloud backup solution
- Azure Backup features
  - There is no cost for using on-premises storage \*
  - There are no maintanance or monitoring. Azure Backup is PaaS \*
  - Multiple storage options are supported (LRS, GRS)
  - Azure Backup doesn't limit or charge for the amount of data you transfer, except if you use the Import/Export service to import large amounts of data
  - o Data encryption securely transmit and store your data in the public cloud
  - Application-consistent backup guarantee you that a recovery point has all required data to restore the backup copy
  - o Azure Backup has a limit of 9999 recovery points per protected instance

















## Azure Backup Components (1)



- Azure Backup (MARS) agent
  - Backup files, folders and System State on Windows OS
  - Max 3x per day
  - No Linux support, no application-aware support
- System Center DPM
  - Application-aware backup and granular restore
  - Back up and restore VMware VMs using DPM 2012 R2
  - Linux support on Hyper-V and VMware VMs
  - Cannot backup Oracle databases

















## Azure Backup Components (2)



- Azure Backup Server (SC DPM with limited features)
  - Application-aware backup and granular restore
  - Back up and restore VMware VMs
  - Linux support on Hyper-V and VMware VMs
  - Doesn't require a SC license, but requires live Azure subscription
  - No support for tape backup, no support for Oracle databases
- Azure IaaS VM backup
  - Application-aware backup
  - Native backups for Windows/Linux
  - No agent installation required, no backup infrastructure needed

















### Backup Azure VMs



- What you need before start
  - Azure virtual machines
  - Recovery services vault
- What can be backed up
  - Azure VMs, Windows and Linux
  - Azure SQL VM
- What can be restored
  - Complete virtual machine
  - Virtual machine disk(s)
  - Files from virtual machine









LANACO









### Backup Azure Files



- Support for Azure Files backup in ZRS storage accounts is currently limited
- There is no CLI available for protecting Azure Files using Azure Backup
- Azure Backup currently supports once-daily scheduled backups
- The maximum number of on-demand backups per day is four
- Resource locks on the storage account are not supported
- Deleting of snapshots created by Azure Backup will delete recovery points
- Deleting of file shares will delete all snapshots taken by Azure Backup

















## On-prem backup with MABS



- Azure backup can be used for on-premise backup
  - Hyper-V environment
  - Vmware environment
  - Single physical or virtual machine using agent
- For virtualized environments you need:
  - Valid Azure subscription and Recovery Services vault
  - Domain environment
  - System Center DPM or Azure Backup Server (DPM with limited features)
  - Enough storage for backup on local disks (1.5x of data size)

















#### MABS v3



- Prerequisites
  - Supported OS: Windows Server 2016 or Windows Server 2019
  - o **Processor**: Minimum: 1 GHz, Recommended: 2.33 GHz
  - o **RAM**: Minimum: 8GB, Recommended: 10GB
  - Hard Drive Space: Minimum 5GB, Recommended 10GB
  - Local disk for backup: 1.5 times size of data to be protected
  - Hyper-V PowerShell need to be installed
  - MABS must be domain joined machine













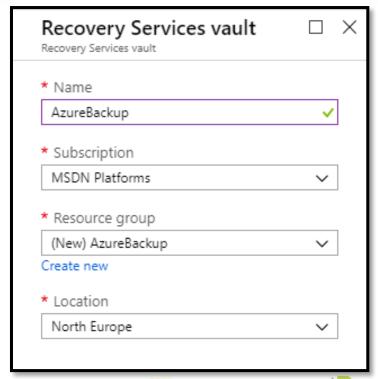






### Preparing Azure Environment





Where is your workload running?	
On-Premises	~
What do you want to backup?	
Hyper-V Virtual Machines	~
Step: Prepare Infrastructure	
Prepare Infrastructure	









LANACO

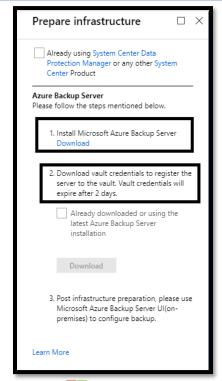


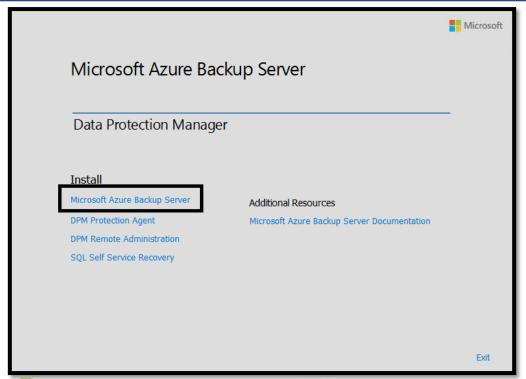
























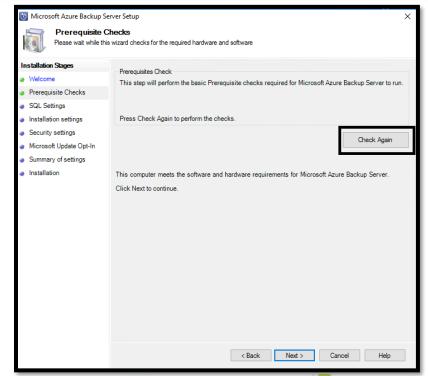


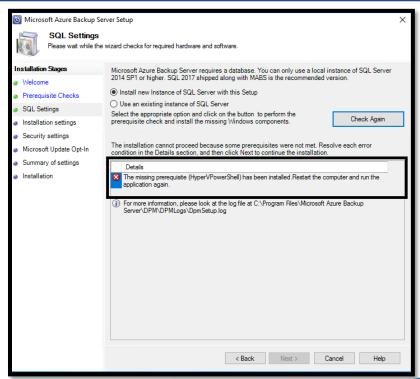
























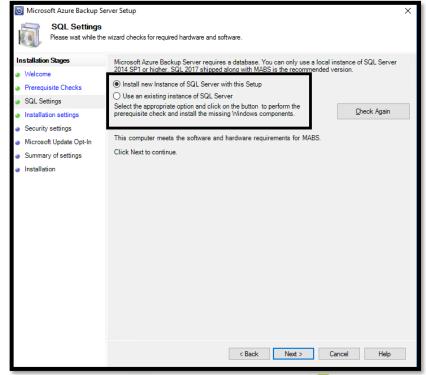


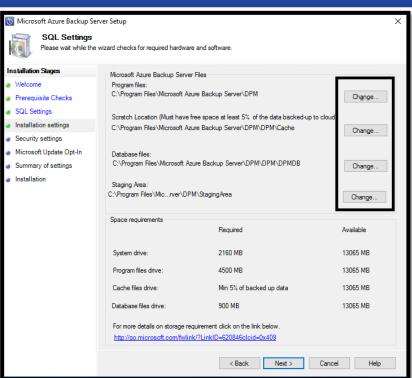
























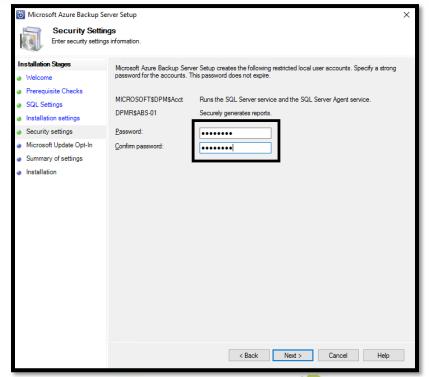


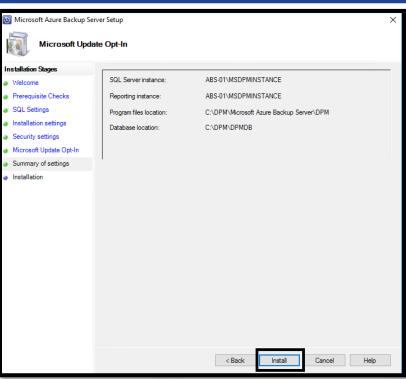
























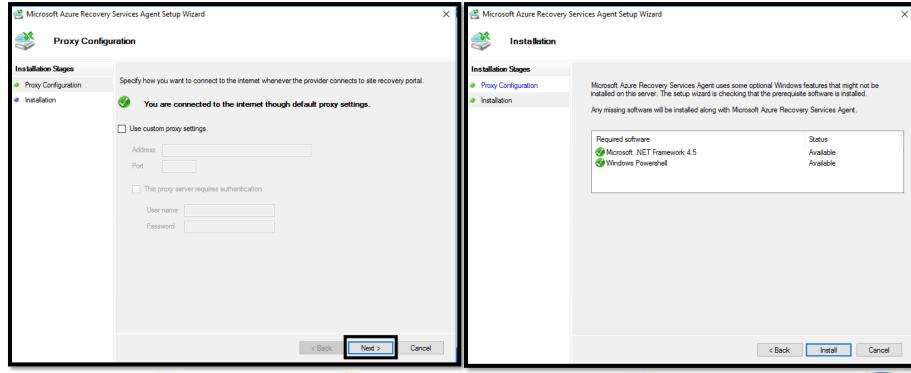
























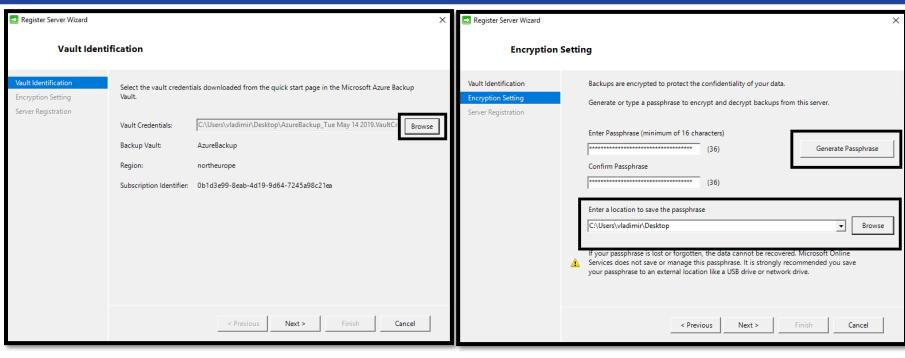


























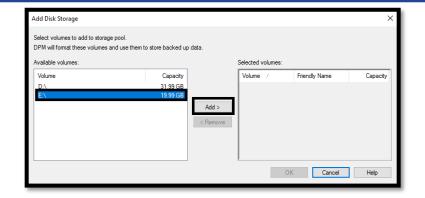
























LANACO



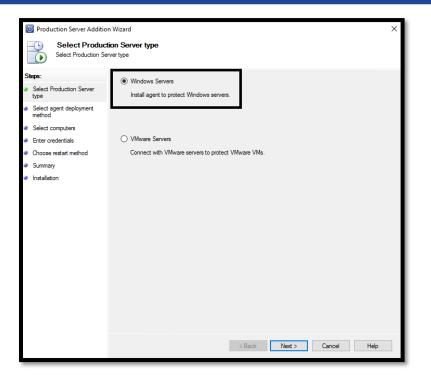
























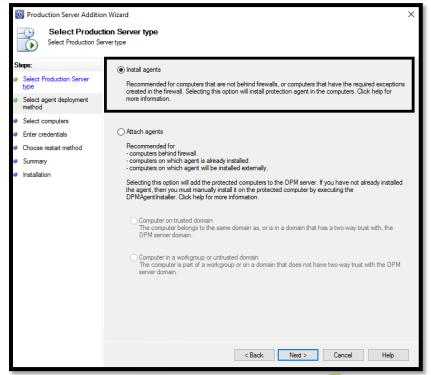


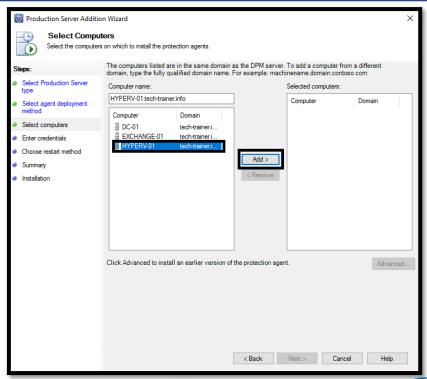
























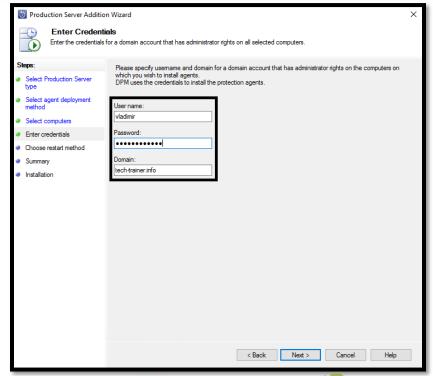


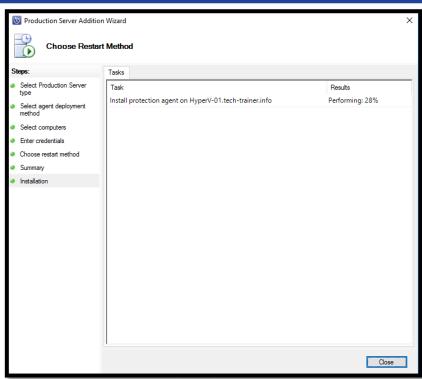
























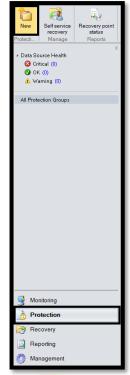


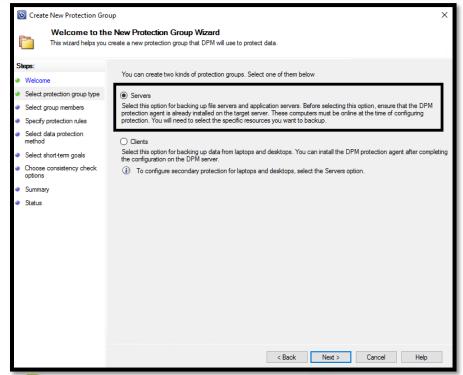
























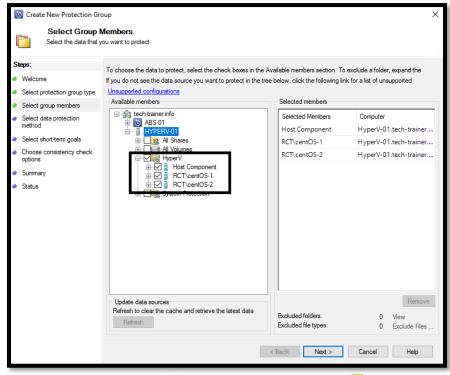


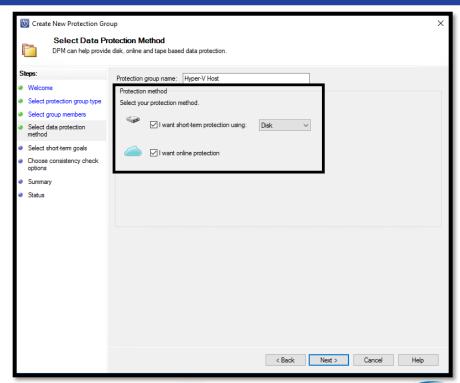
























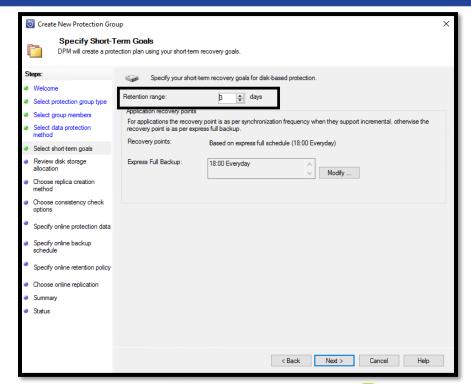


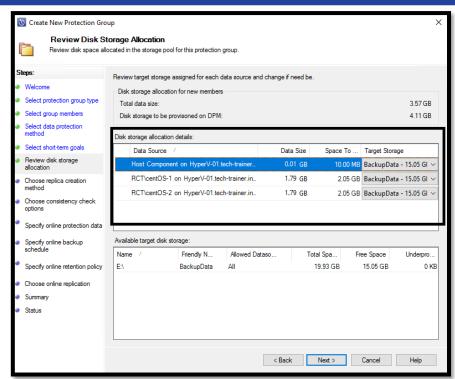
























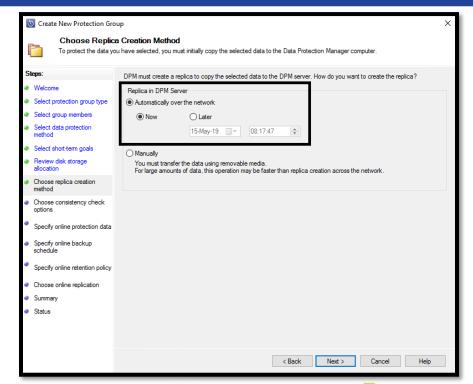


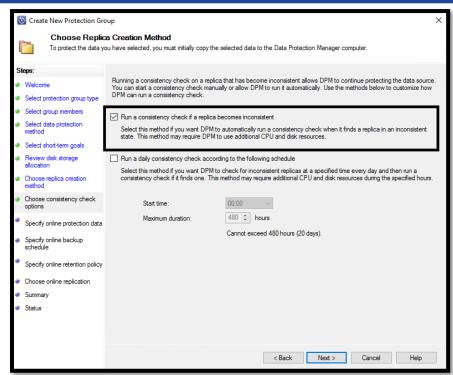
























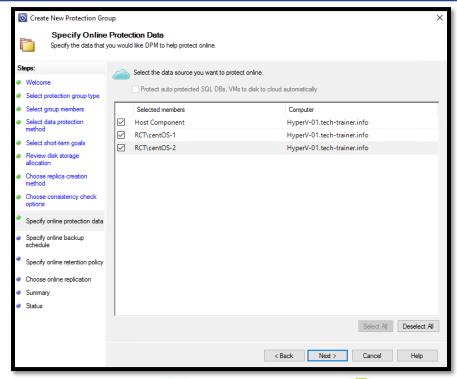


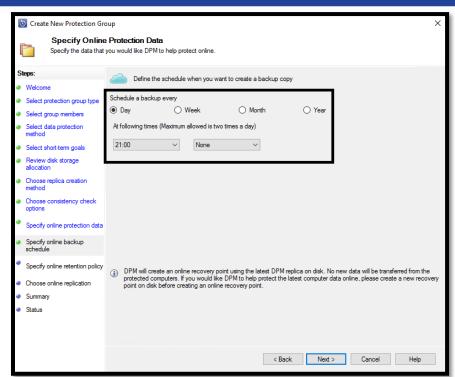
























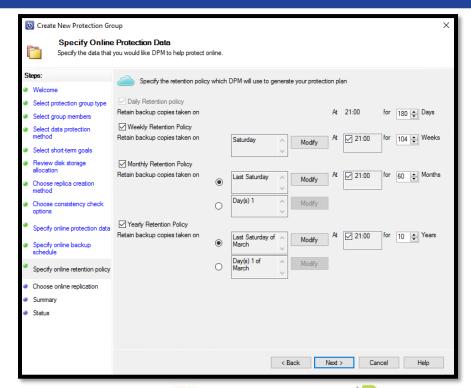


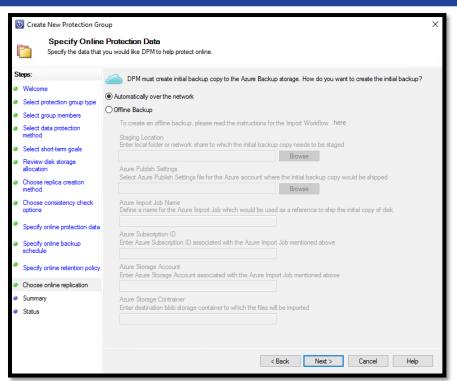
























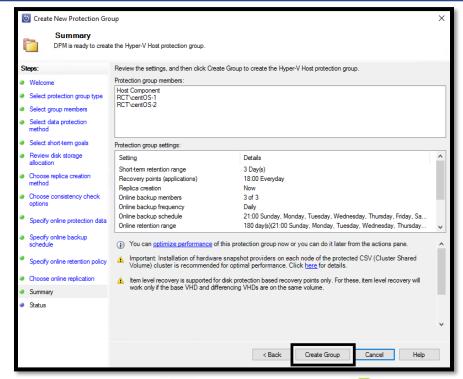


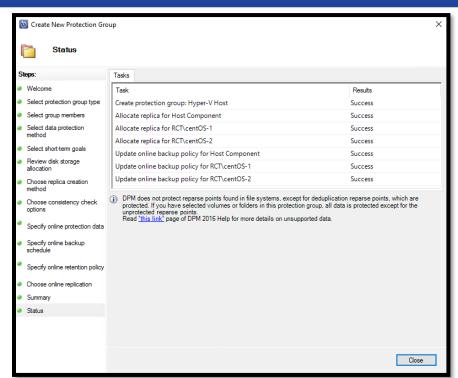
































# HVALA NA PAŽNJI! //GR8!

























































