

Homework M2: Basic Services and Components

While you can use either Core or Desktop Experience version, please try to follow the PowerShell way of doing things as much as possible. It is for sure difficult compared to the graphical way of doing things, but in long term it will be more rewarding.

Software and Services Management

Main goal is to download, install, and start a 3rd party service on a **Windows Server 2016/2019 Standard**.

You are expected to do the following tasks:

1. Download the service archive from <https://zahariev.pro/files/WSA-M2-Service.zip>
You can use the following (sample) command **wget -Uri <http://example.com/file.zip> -OutFile C:\Temp\file.zip**
2. Extract it to a folder, for example **C:\WSAService**
You can use the following command **Expand-Archive -LiteralPath C:\Temp\file.zip -DestinationPath C:**
3. Install the **WSAService.exe** service
4. Start the **WSAService**
5. Check / show the content of the **C:\WSA.log** file

Disk Management

Main goal is to add, initialize, and partition additional hard drive on a **Windows Server 2016/2019 Standard**.

You are expected to do the following tasks:

1. Create new disk with thin provision and size of **10 GB**, and attach it to the VM
2. Initialize the disk with **GPT** partition style
3. Create one partition (approx. 60%)
4. Assign letter **X**
5. Format it with **NTFS** file system and set the label to **Disk-NTFS**
6. Create second partition (the remaining space)
7. Assign letter **Y**
8. Format it with **FAT32** file system and set the label to **Disk-FAT32**

Network Management

Main goal is to try several of the network related cmdlets on your own. For the purpose of the lab, you can use **Windows Server 2016/2019 Standard** with two network cards. One (first) connected to your existing network (nat, bridge) and another (second) connected to an internal network.

You are expected to do the following tasks:

1. Rename your first adapter to **NET-Internet**
2. Rename your second network adapter to **NET-Local**
3. Set the profile of first adapter to **Public**
4. Set the profile of second adapter to **Private**
5. Set **192.168.220.1** as IP address of the second adapter
6. Set MAC address of the second adapter to **AA-BB-CC-DD-EE-FF**
7. Enable firewall rule to **allow ping**
8. **Reset** MAC address of the second adapter to its factory value

Proof

Prepare a document that contains information about the means (commands and / or actions) you used to achieve the above tasks. It can be accompanied with visual proof of the end result.