

# ### Windows Server 2019 2023-11-28

## ### Creation

2023-11-28

- Creating of VM Windows Server 2019 includes info:
  - Name: DC01 (New)
  - Generation: Generation 2
  - Memory: 4096MB
  - Network: nat-switch
  - Hard Disk: E:\Hyper-V\DC01 (New).vhdx (VHDX, dynamically expanding)
- Installing of OS:
  - Language to install: English (United States)
  - Time and currency format: Swedish (Sweden)
  - Keyboard or input method: Swedish
  - OS: Windows Server 2019 Datacenter (Desktop Experience)
  - Type: Custom
- Username and password, Administrator & Pa55w0rd.

2023-11-28

- AD and DNS installed: Installed via "Server Manager" → "Add Roles and Features" → "Add a new forest" etc.
  - Directory Services Restore Mode (DSRM) password with password: Pa55w0rd.
  - NetBIOS domain name: GRUPP60
  - Forwarding to Parent DNS server: 172.30.255.254, already configured.

2023-12-04

- Created following "Groups" in AD:
  - Anställda
  - Ekonomi
  - Ledning
  - Försäljning
  - Projektgrupp
- Share UNC path: [\\DC01\Hem kataloger](\\DC01\Hem_kataloger)
- Created "User Templates" for the following:
  - AnställdMall (Added Global Group – Security: Anställda)
  - SäljarMall (Added Global Group – Security: Anställda, Försäljning)
  - ChefsMall (Added Global Group – Security: Anställda, Ledning)
  - EkonomiMall (Added Global Group – Security: Anställda, Ekonomi)

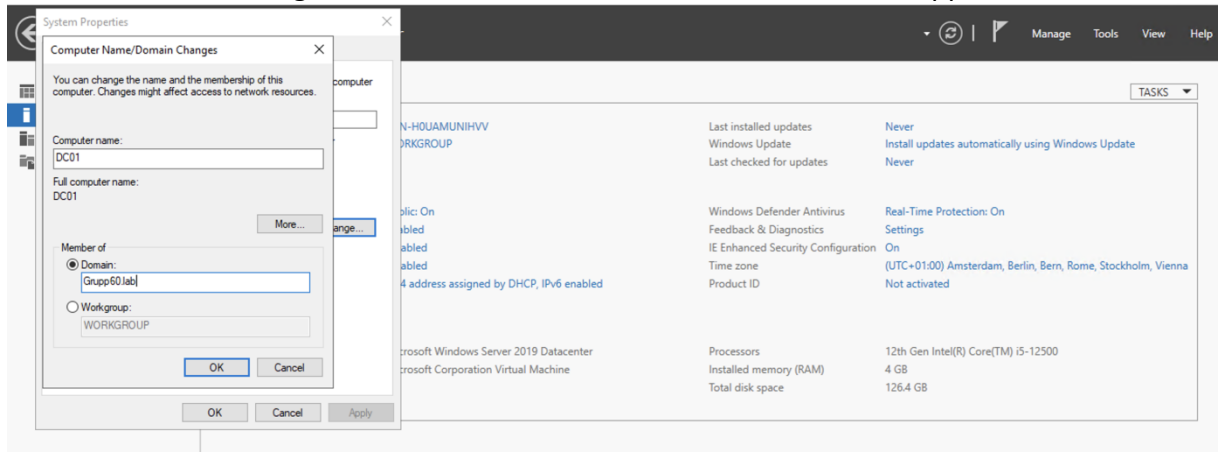
2023-12-05

- Created the following end-users using templates and added their roles:
  - o Terry Peters (Chef) with "ChefsMall"
  - o Marian Lyons (Chef) with "ChefsMall"
  - o Charles Barton (Ekonom) with "EkonomiMall"
  - o Reginald Lawrence (Ekonom) with "EkonomiMall"
  - o Patrick Sullivan (Säljare) with "SäljarMall"
  - o Rick Kirby (Säljare) with "SäljarMall"
  - o Perry Acosta (Säljare) with "SäljarMall"
  - o Bobbie Davenport (Anställd) with "SäljarMall"
  - o Agnes Keller (Anställd) with "AnställdMall"
  - o Megan Weaver (Anställd) with "AnställdMall"
- Created shared folder for "Projektgrupp" with added permissions for the following employees:
  - o Terry Peters (Leader) – with permission "Full Control"
  - o Charles Barton, Agnes Keller, Megan Weaver (Members) – with permission "Modify"

### ### Changes

2023-11-28

- Settings for DC01 (New) changed from 1 processor to 2 processors.
- Settings for Integration Services applied Guest Services.
- In "Local Server" changed server name to DC01 and Domain name: Grupp60.lab



- In "Local Server" → Ethernet-link → Network Connections: Ethernet → Properties changed network settings:
  - o IP-address: 192.168.60.11
  - o Subnet mask: 255.255.255.0
  - o Default Gateway: 192.168.60.1
  - o Preferred DNS-server: 172.30.255.254

- In "Local Server" → Product ID: H3RNG-8C32Q-Q8FRX-6TDXV-WMBMW (AVMA-key)
- Protection updates: "Check for updates" made and with threat definition version: 1.401.1341.0
- Manually "Check for updates" and installed the following updates:

## Update history

### ✓ Quality Updates (7)

[2021-01 Update for Windows Server 2019 for x64-based Systems \(KB4589208\)](#)

Successfully installed on 2023-11-28

[Update for Windows Defender Antivirus antimalware platform - KB4052623 \(Version 4.18.2001.10\)](#)

Failed to install on 2023-11-28 - 0x80240017

[2023-11 Cumulative Update for Windows Server 2019 \(1809\) for x64-based Systems \(KB5032196\)](#)

Successfully installed on 2023-11-28

[2023-11 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 \(KB5032337\)](#)

Successfully installed on 2023-11-28

[2022-02 Cumulative Update Preview for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 \(KB5011267\)](#)

Successfully installed on 2023-11-28

[Update for Removal of Adobe Flash Player for Windows Server 2019 for x64-based systems \(KB4577586\)](#)

Successfully installed on 2023-11-28

[2023-11 Cumulative Update for Windows Server 2019 \(1809\) for x64-based Systems \(KB5032196\)](#)

Failed to install on 2023-11-28 - 0x8024200d

### ✓ Definition Updates (2)

[Update for Microsoft Defender Antivirus antimalware platform - KB4052623 \(Version 4.18.23100.2009\)](#)

Successfully installed on 2023-11-28

[Security Intelligence Update for Microsoft Defender Antivirus - KB2267602 \(Version 1.401.1336.0\) - Current Channel \(Broad\)](#)

Successfully installed on 2023-11-28

### ✓ Other Updates (1)

[Windows Malicious Software Removal Tool x64 - v5.119 \(KB890830\)](#)

Successfully installed on 2023-11-28

- IPv6 was unchecked in the Network connections and priority was degraded with value of 32 using PowerShell.

## Computer Management



Computer DC02.Grupp60.lab cannot be managed. Verify that the network path is correct, the computer is available on the network, and that the appropriate Windows Firewall rules are enabled on the target computer.

To enable the appropriate Windows Firewall rules on the remote computer, open the Windows Firewall with Advanced Security snap-in, and enable the following Inbound Rules:

COM+ Network Access (DCOM-In)

All rules in the Remote Event Log Management group

You can also enable these rules by using Group Policy settings for Windows Firewall with Advanced Security. For servers that are running the Server Core installation option, run the Netsh AdvFirewall command, or the Windows PowerShell NetSecurity module.

OK

- Configured the TrustedHostList
- In Windows Firewall, inbound rule for COM+ Network Access (DCOM-In) was enabled
- Added DC02 as a DNS in "DNS".
- Added roles for DC02 as "AD DS" and "DNS"

2023-12-04

- Permission set for "Hemkataloger" using this table:

User Account	Access	Applies to
System	Full control	This folder, subfolders and files
Administrators	Full Control	This folder only
Creator/Owner	Full Control	Subfolders and files only
Security group of users needing to put data on share (Roaming User Profiles Users and Computers)	List folder / read data <sup>1</sup>	This folder only
	Create folders / append data <sup>1</sup>	
Other groups and accounts	None (remove)	

- Formatted a partition into a New Volume H: NTFS-filesystem with around 64 GB.
- Created "Hemkataloger" and "Gruppkataloger" in H:
- Changed Permission on Gruppkataloger to these:

Set permissions on the share

- ▶ Owner: Builtin Administrators or/and Administrators (Domain\Administrators)
- ▶ Disable Inheritance
- ▶ Full Control: Builtin Administrators or/and Administrators (Domain\Administrators), SYSTEM
- ▶ Read Access (No Propagate): Authenticated Users (well, it should work fine without this... **DO NOT** give Authenticated Users read access in the lab)

2023-12-05

- Created subfolders with the following "Gruppkataloger" groups:
  - Anställda
  - Ekonomi
  - Försäljning
  - Ledning
  - Projektgrupp
- Subfolder of "Gruppkataloger" with set permission for respective group:
  - "Anställda" → Permission set for "Anställda/Group" into "Modify".
  - "Ekonomi" → Permission set for "Ekonomi/Group" into "Modify".
  - "Försäljning" → Permission set for "Försäljning/Group" into "Modify".
  - "Projektgrupp" → Permission set for "Projektgrupp/Group" into "Modify".
  - "Ledning" → Permission set for "Ledning/Group" into "Full Control".
- Created GPO's for respective group/role where the "Folder Redirection" were modified and given a new path, corresponding to the separate subfolder in "Gruppkataloger".
- On all subfolders in "Gruppkataloger", the GPO's was edited with settings such as:
  - Minimum Password Length: Set to 4.
  - Password must meet complexity requirements: Disabled (Users can't use special font in their password)
  - Interactive Logon: Do not require CTRL + ALT + DEL → Disabled (Users must now login using this CTRL + ALT + DEL-command).

### Fixed

2023-12-02

- Cannot ping google.com, "Request timed out."

- Solution: Changed network settings, tried ping and didn't work.  
Logged in on pop-up Captive Portal with student credentials through the web surfer and now successful web surfing and ping.

2023-12-02

- Had no "DNS"-program in "Administrative Tools"
  - Solution: Added "DNS Server Tool" through Add Roles and Features in Server Manager.

## ### Windows 10 Education version 22H2 no. 1

### ### Creation

2023-11-28

- Creating of VM Windows 10 Education includes info:
  - Name: KlientAdmin (New)
  - Generation: Generation 2
  - Memory: 4096MB
  - Network: nat-switch
- Installing of OS:
  - Language to install: English (United States)
  - Time and currency format: Swedish (Sweden)
  - Keyboard or input method: Swedish
  - OS: Windows 10 Education
  - Type: Custom
  - Region: Sweden
  - Keyboard layout: Swedish
  - Continue with limited setup
- Username and password, Admin & Pa55w0rd.
- Security questions
  - Q: What was your first pet's name?  
A: Hello
  - Q: What was your childhood nickname?  
A: Hello
  - Q: What's the name of the city where you were born?  
A: Hello

### ### Changes

2023-11-28

- Settings changed from 1 processor to 2 processors.
- Settings for Integration Services applied Guest Services.

- In "Network Connections" → Ethernet-icon → Properties changed network settings:
  - IP-address: 192.168.60.64
  - Subnet mask: 255.255.255.0
  - Default Gateway: 192.168.60.1
  - Preferred DNS-server: 172.30.255.254
  
- Manually "Check for updates" and installed the following updates:
  - ✓ Feature Updates (1)
    - Feature update to Windows 10, version 22H2
    - Successfully installed on 2023-11-28
    - [See what's new in this update](#)
  
  - ✓ Quality Updates (4)
    - [2023-11 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 22H2 for x64 \(KB5032339\)](#)
    - Successfully installed on 2023-11-28
  
    - [2023-10 Update for Windows 10 Version 22H2 for x64-based Systems \(KB4023057\)](#)
    - Successfully installed on 2023-11-28
  
    - [Update for Windows Defender Antivirus antimalware platform - KB4052623 \(Version 4.18.2001.10\)](#)
    - Successfully installed on 2023-11-28
  
    - [2023-11 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64 \(KB5032338\)](#)
    - Successfully installed on 2023-11-28
  
  - ✓ Definition Updates (2)
    - [Update for Microsoft Defender Antivirus antimalware platform - KB4052623 \(Version 4.18.23100.2009\)](#)
    - Successfully installed on 2023-11-28
  
    - [Security Intelligence Update for Microsoft Defender Antivirus - KB2267602 \(Version 1.401.1341.0\) - Current Channel \(Broad\)](#)
    - Successfully installed on 2023-11-28
  
  - ✓ Other Updates (3)
    - [Microsoft .NET Framework 4.8.1 for Windows 10 Version 22H2 for x64 \(KB5011048\)](#)
    - Successfully installed on 2023-11-28
  
    - [2022-02 Cumulative Update Preview for .NET Framework 3.5 and 4.8 for Windows 10 Version 21H2 for x64 \(KB5010472\)](#)
    - Successfully installed on 2023-11-28
  
    - [Windows Malicious Software Removal Tool x64 - v5.119 \(KB890830\)](#)
    - Successfully installed on 2023-11-28
  
- Protection updates: "Check for updates" made and with threat definition version: 1.401.1341.0
- IPv6 was unchecked in the Network connections and priority was degraded with value of 32 using PowerShell.
  
- Renamed computer name to KlientAdmin
- Installed RSAT

2023-12-02

- Changed address of DNS-server and changed to domain Grupp60.lab.

### Fixed

2023-12-02

- Error encountered when checking for Windows update.  
Solution: Changed network settings,
- Error "Ping request could not find host google.com. Please check the name and try again."  
Solution: Changed network settings and now successfulls pings to website and server: 8.8.8.8.

## ### Windows 10 Education version 22H2 no. 2

### Creation

2023-11-28

- Creating of VM Windows 10 Education includes info:
  - o Name: Klient01 (New)
  - o Generation: Generation 2
  - o Memory: 4096MB
  - o Network: nat-switch
- Installing of OS:
  - o Language to install: English (United States)
  - o Time and currency format: Swedish (Sweden)
  - o Keyboard or input method: Swedish
  - o OS: Windows 10 Education
  - o Type: Custom
  - o Region: Sweden
  - o Keyboard layout: Swedish
  - o Continue with limited setup
- Username and password, Admin & Pa55w0rd.
- Security questions
  - o Q: What was your first pet's name?  
A: Hello
  - o Q: What was your childhood nickname?  
A: Hello



- Q: What's the name of the city where you were born?
- A: Hello

### ### Changes

2023-11-28

- Settings changed from 1 processor to 2 processors.
- Settings for Integration Services applied Guest Services.
- In "Network Connections" → Ethernet-icon → Properties changed network settings:
  - IP-address: 192.168.60.128
  - Subnet mask: 255.255.255.0
  - Default Gateway: 192.168.60.1
  - Preferred DNS-server: 172.30.255.254
- Manually "Check for updates" and installed the following updates:
  - ✓ Feature Updates (1)
    - Feature update to Windows 10, version 22H2
    - Successfully installed on 2023-11-28
    - [See what's new in this update](#)
  - ✓ Quality Updates (5)
    - [2023-11 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 22H2 for x64 \(KB5032339\)](#)
    - Successfully installed on 2023-11-28
    - [2023-11 Cumulative Update for Windows 10 Version 22H2 for x64-based Systems \(KB5032189\)](#)
    - Successfully installed on 2023-11-28
    - [Update for Windows Defender Antivirus antimalware platform - KB4052623 \(Version 4.18.2001.10\)](#)
    - Successfully installed on 2023-11-28
    - [2023-10 Update for Windows 10 Version 21H2 for x64-based Systems \(KB4023057\)](#)
    - Successfully installed on 2023-11-28
    - [2023-11 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64 \(KB5032338\)](#)
    - Successfully installed on 2023-11-28
  - ✓ Definition Updates (2)
    - [Update for Microsoft Defender Antivirus antimalware platform - KB4052623 \(Version 4.18.23100.2009\)](#)
    - Successfully installed on 2023-11-28
    - [Security Intelligence Update for Microsoft Defender Antivirus - KB2267602 \(Version 1.401.1341.0\) - Current Channel \(Broad\)](#)
    - Successfully installed on 2023-11-28
  - ✓ Other Updates (3)
    - [Microsoft .NET Framework 4.8.1 for Windows 10 Version 22H2 for x64 \(KB5011048\)](#)
    - Successfully installed on 2023-11-28
    - [2022-02 Cumulative Update Preview for .NET Framework 3.5 and 4.8 for Windows 10 Version 21H2 for x64 \(KB5010472\)](#)
    - Successfully installed on 2023-11-28
    - [Windows Malicious Software Removal Tool x64 - v5.119 \(KB890830\)](#)
    - Successfully installed on 2023-11-28

- Protection updates: "Check for updates" made and with threat definition version: 1.401.1341.0
- IPv6 was unchecked in the Network connections and priority was degraded with value of 32 using PowerShell.
- Renamed computer name to Klient01.

2023-12-02

- Changed address of DNS-server and changed to domain Grupp60.lab.

### Fixed

2023-12-02

- Error encountered when checking for Windows update.  
Solution: Changed network settings,
- Error "Ping request could not find host google.com. Please check the name and try again."  
Solution: Changed network settings and now successful pings to website and server: 8.8.8.8.

## ### Windows Server Core 2019 (2023-11-28)

### Creation

2023-11-28

- Creating of VM Windows Server 2019 includes info:
  - o Name: DC02 (New)
  - o Generation: Generation 2
  - o Memory: 2048MB
  - o Network: nat-switch
- Installing of OS:
  - o Language to install: English (United States)
  - o Time and currency format: Swedish (Sweden)
  - o Keyboard or input method: Swedish
  - o OS: Windows Server 2019 Datacenter
  - o Type: Custom
- Username and password, Administrator & Pa55w0rd.

### ### Changes

- Settings changed from 1 processor to 2 processors.
- Settings for Integration Services applied Guest Services.
- Domain name?
- Changed computer name with cmd "sconfig" into DC02.
- Changed network settings with cmd "sconfig" to the following:
  - o IP-address: 192.168.60.12
  - o Subnet mask: 255.255.255.0
  - o Default Gateway: 192.168.60.1
  - o Preferred DNS-server: 172.30.255.254
- In "sconfig" → 11) Windows Activation → 3) Install Product Key: **TNK62-RXVTB-4P47B-2D623-4GF74.**
- Protection updates: "Check for updates" made and with threat definition version: 1.401.1341.0
- Manually "Check for updates" and installed the Downloadable latest updates.
- IPv6 priority was degraded with value of 32 using regedit.

2023-12-02

- Added roles as "AD DS" and "DNS" with deployment configurations:
  - o User name: Administrator
  - o Password: Pa55w0rd
  - o DSRM Password (Recovery): Pa55w0rd
- Added DNS-server "172.30.255.254"
- IP-address of DNS is changed to DC02's IP-address in Grupp60.lab.

### ### Fixed

2023-12-02

- Cannot ping google.com, "Request timed out."
  - o Solution: Changed network settings, tried ping and didn't work. Logged in on pop-up Captive Portal with student credentials through the web surfer and now successful web surfing and ping.