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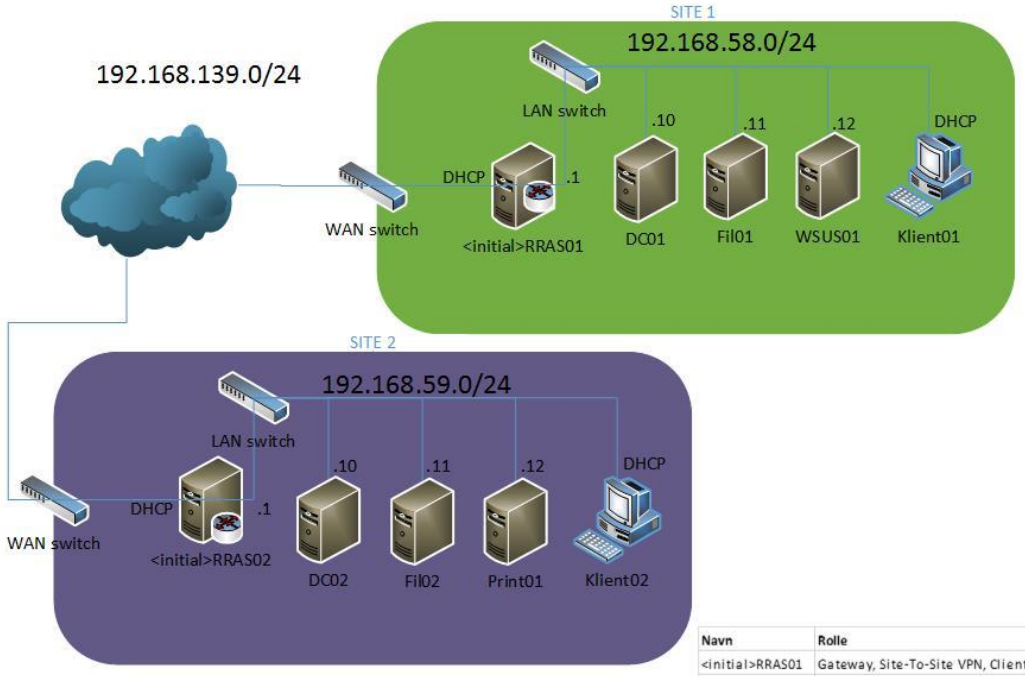
Installing and configuring WSUS

In this guide we install and configure the Windows Server Update Services role on WSUS01 in site 1.

We will create a Group Policy Object (GPO) that will configure our servers and workstations to use WSUS01 for Microsoft Updates instead of the public Microsoft Updates servers.



Navn	Rolle	Operativsystem
<initial>RRAS01	Gateway, Site-To-Site VPN, Client/server VPN	Server 2012 Standard
DC01	Domain Controller, DNS, DHCP, PKI	Server 2012 Standard
Fil01	Filserver	Server 2012 Standard
WSUS01	Windows Server Update Services Server	Server 2012 Standard
<initial>RRAS02	Gateway, Site-To-Site VPN, Client/server VPN	Server 2012 Standard
DC02	Domain Controller, DNS, DHCP	Server 2012 Standard
Fil02	Filserver	Server 2012 Standard
Print01	Printserver	Server 2012 Standard
Klient01	Workstation	Windows 8 Enterprise
Klient02	Workstation	Windows 8 Enterprise

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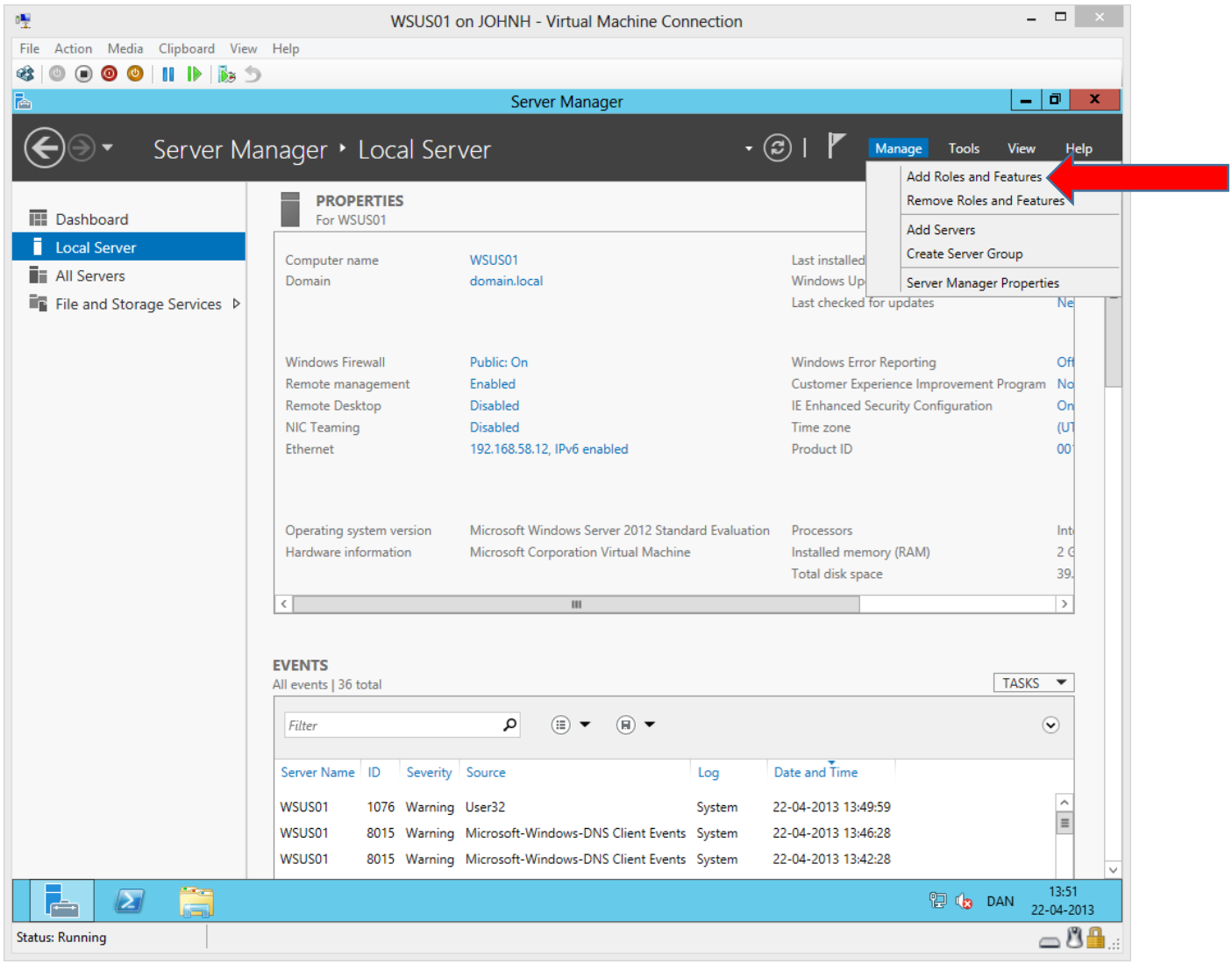
Installing and configuring WSUS on WSUS01



After the basic setup of WSUS01, we will add a new role.

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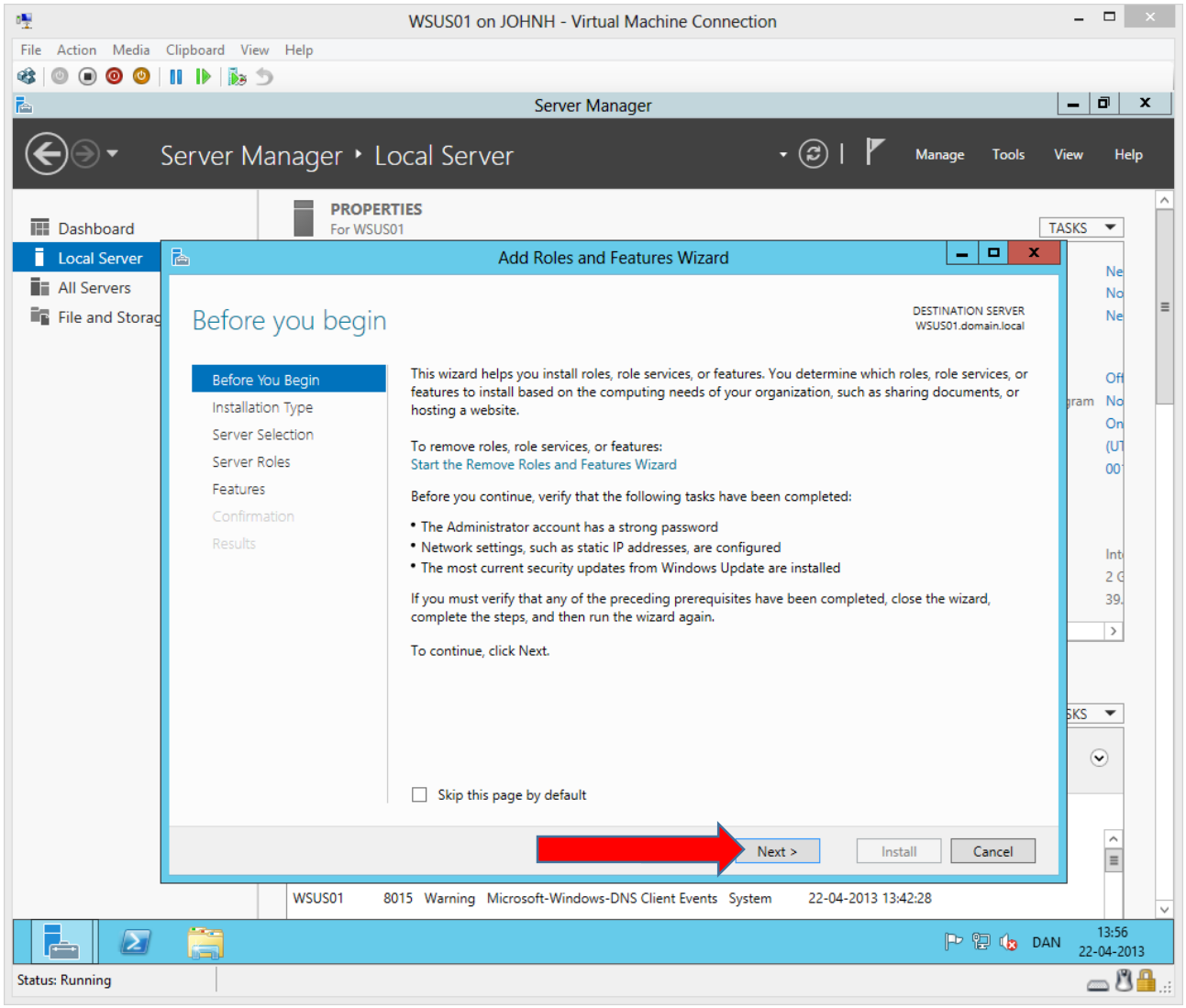

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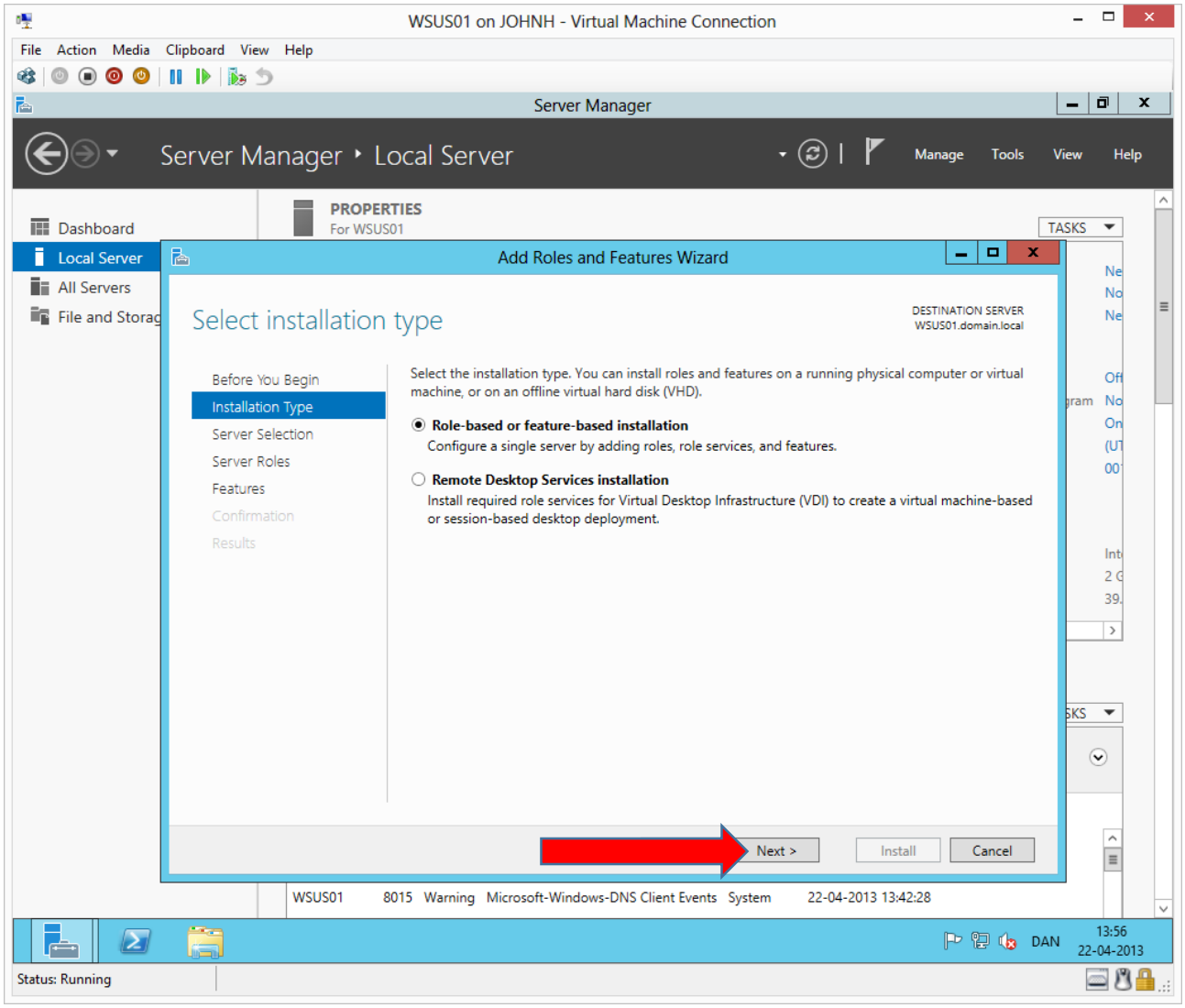

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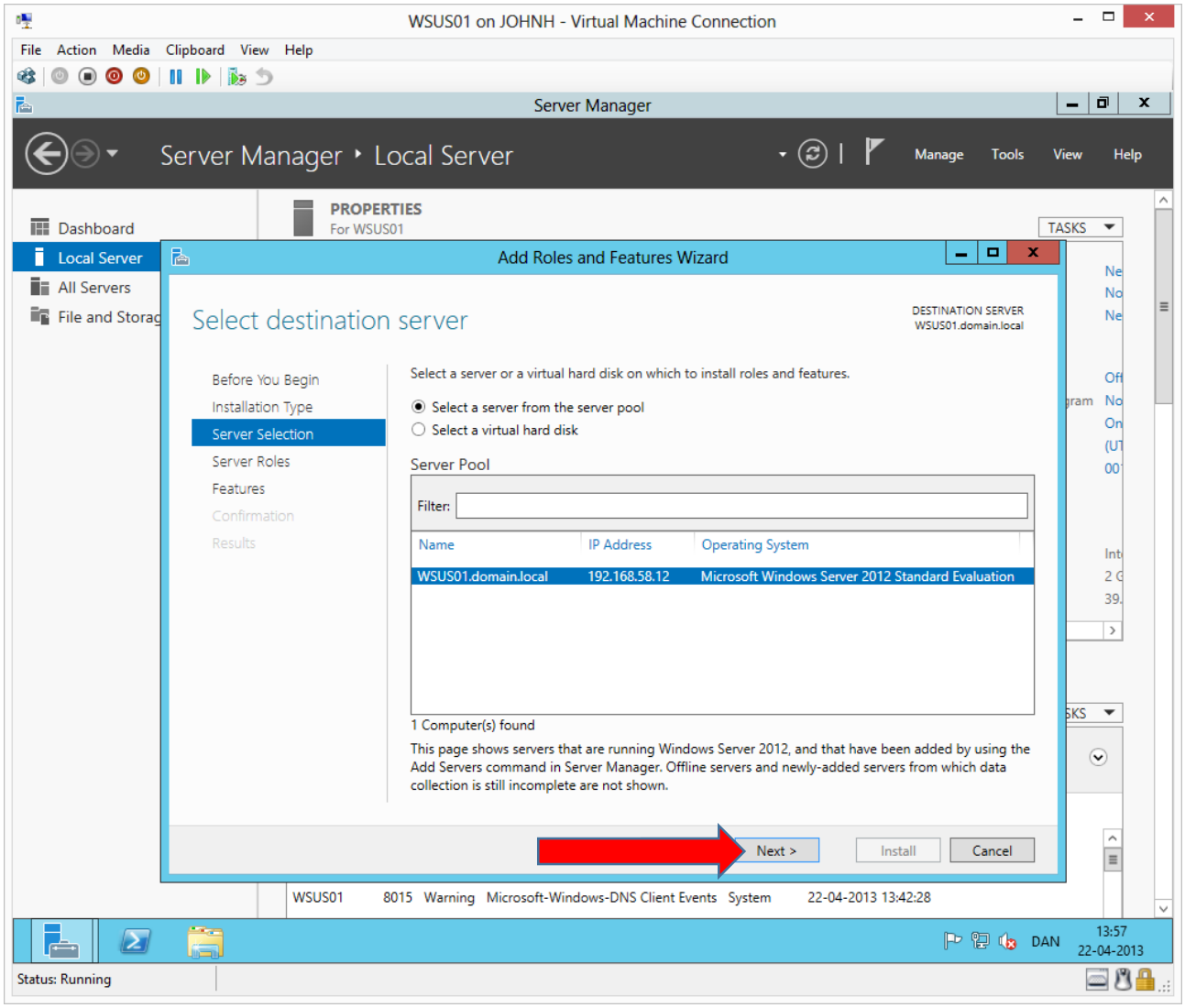

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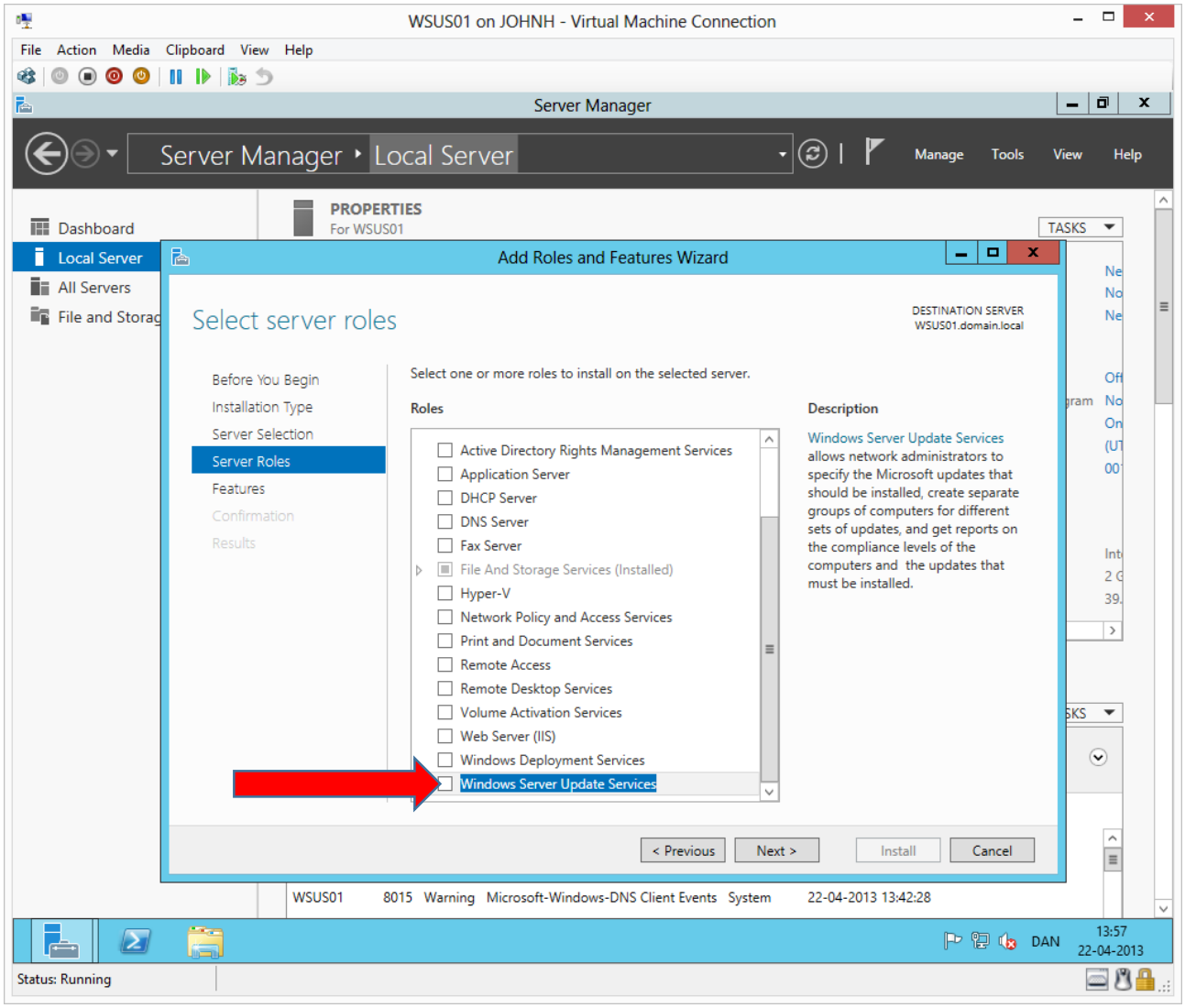

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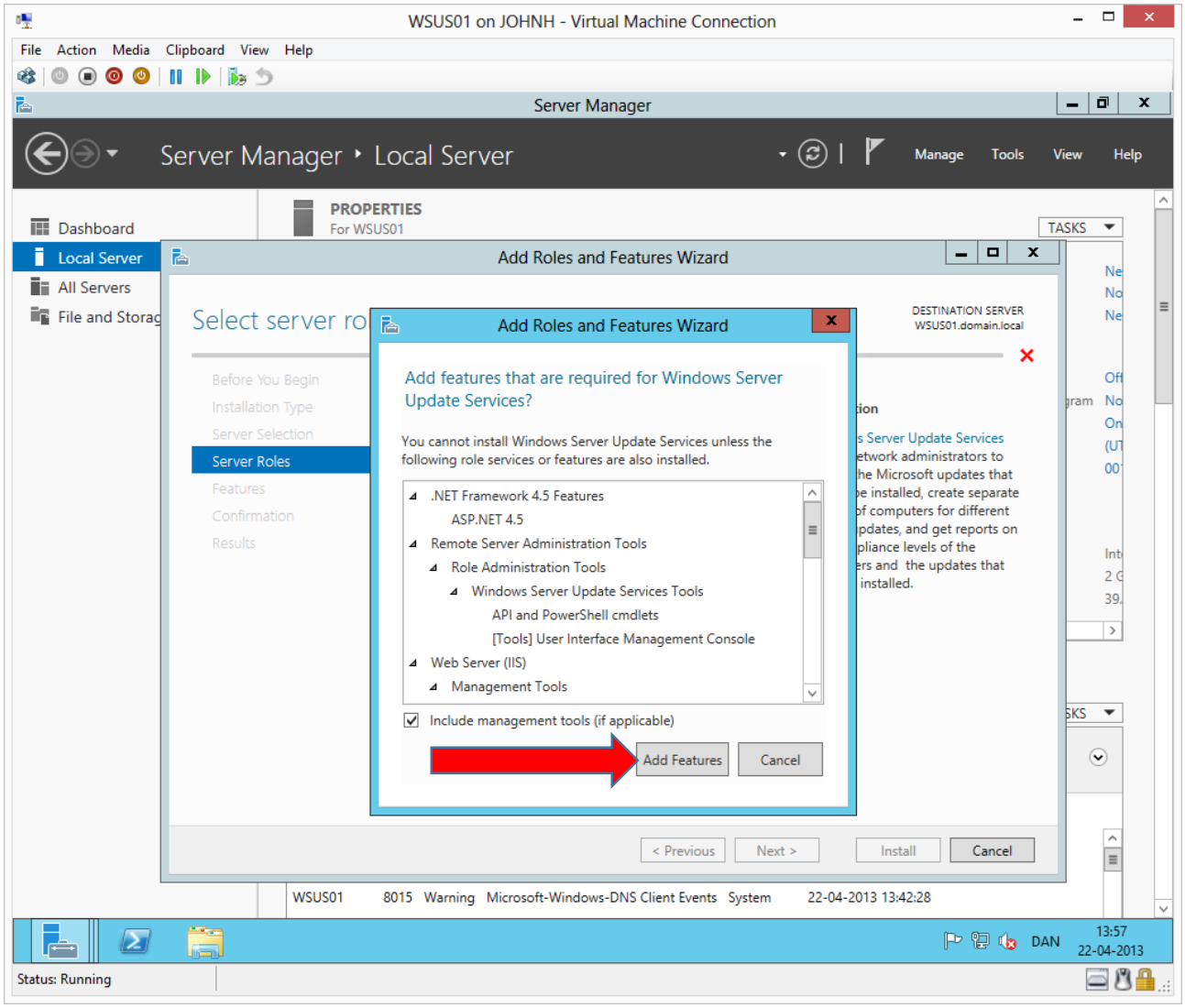

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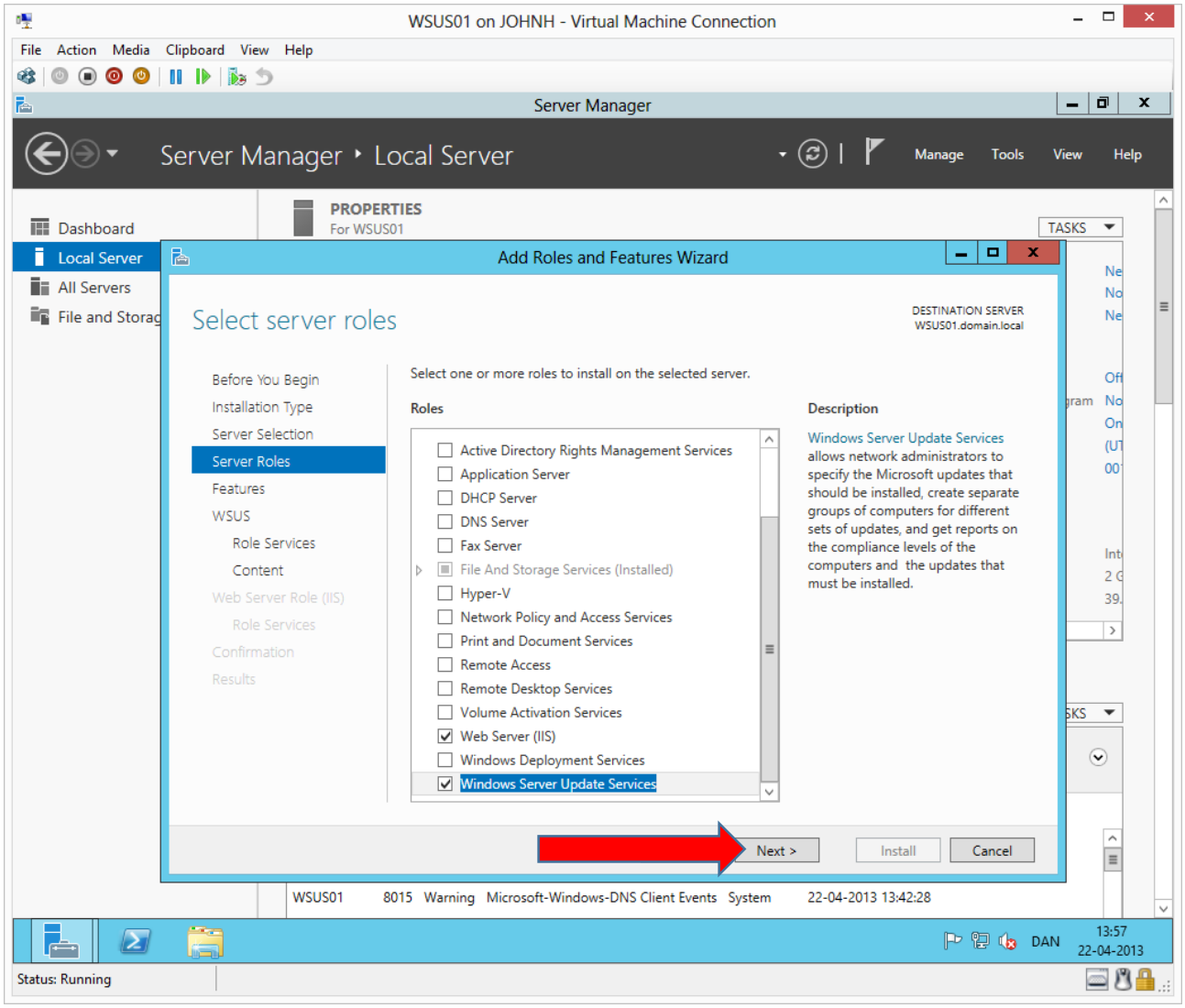

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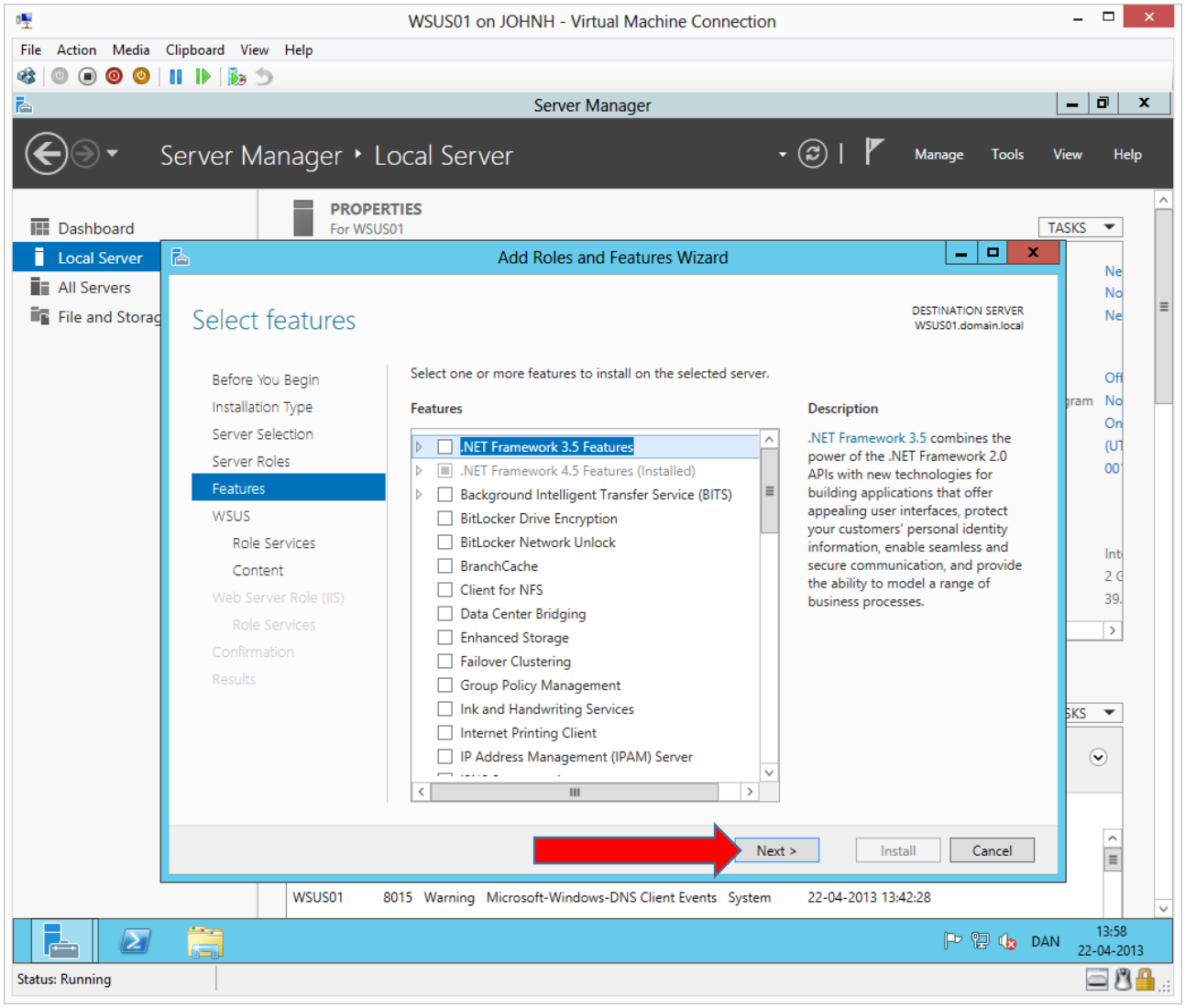

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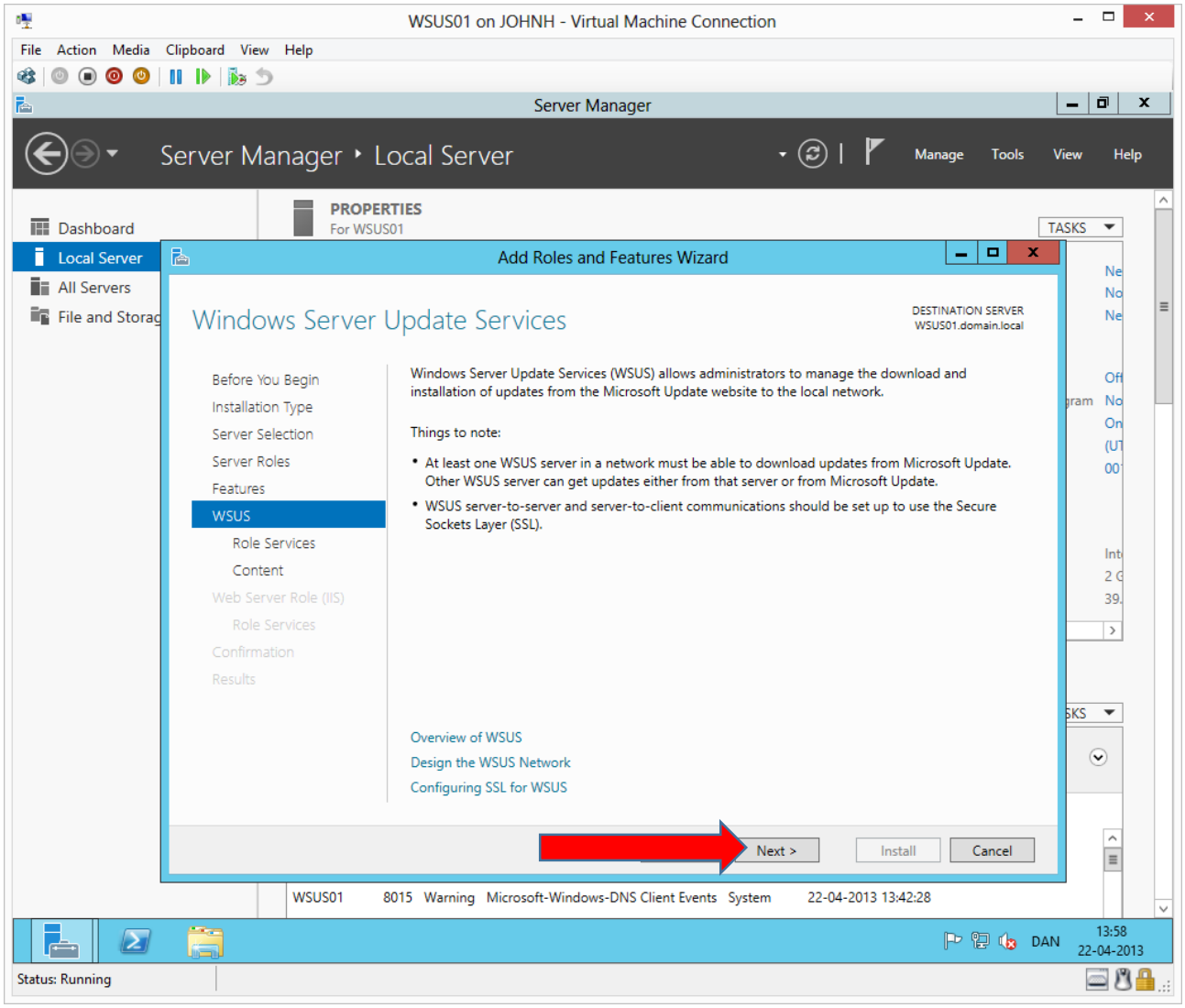

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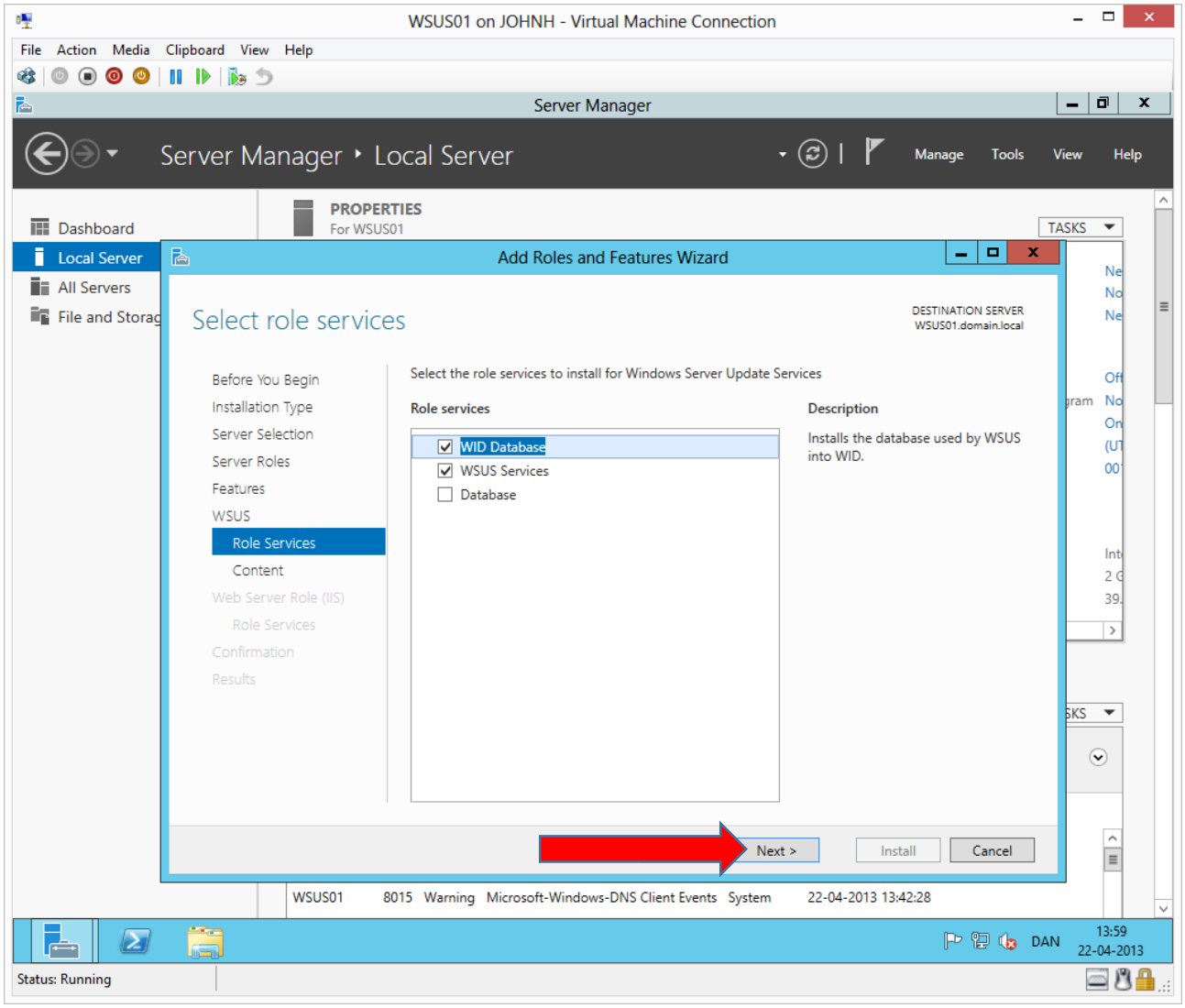

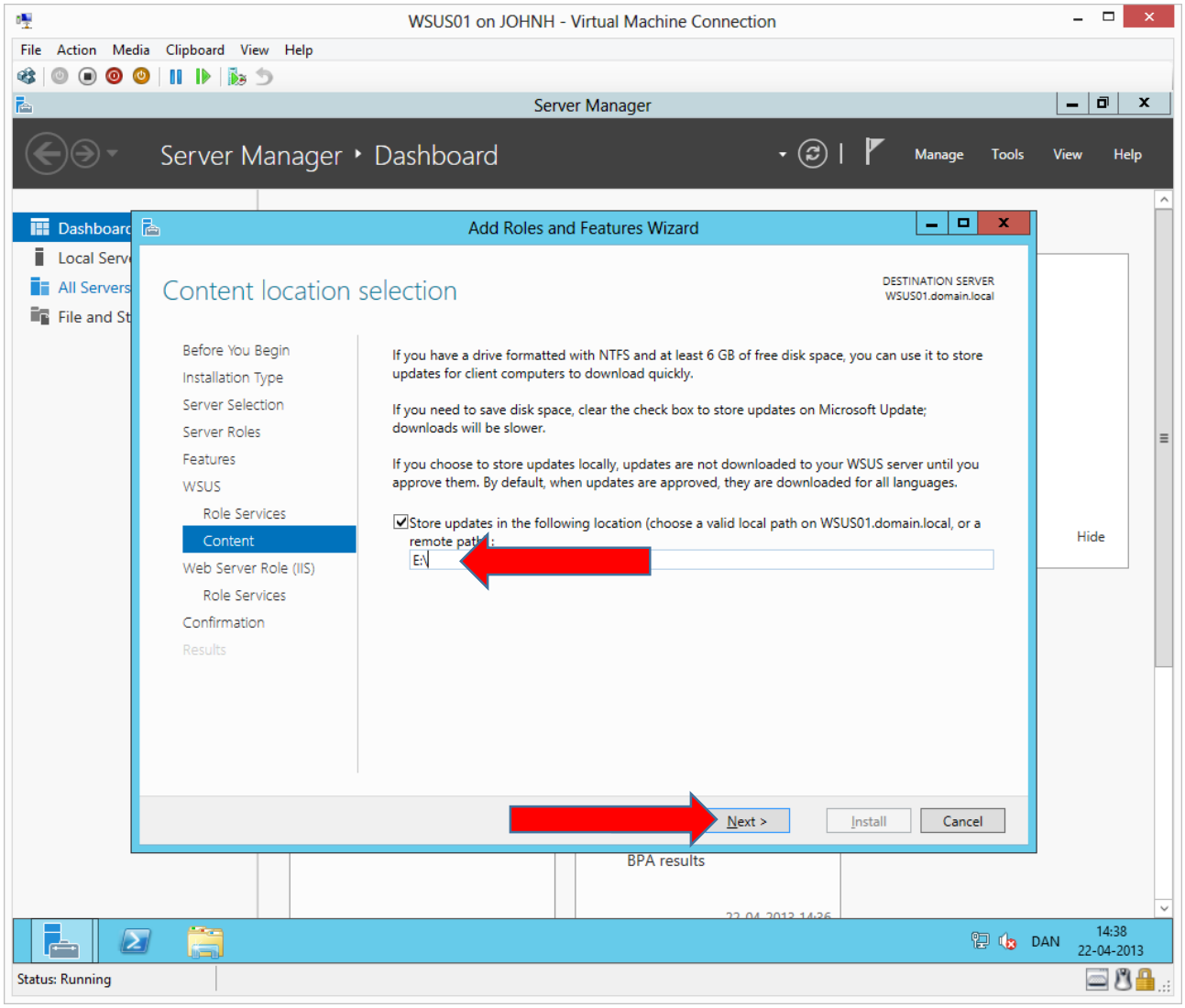

Change the drive letter path to the one of the added extra disk, here **E:**

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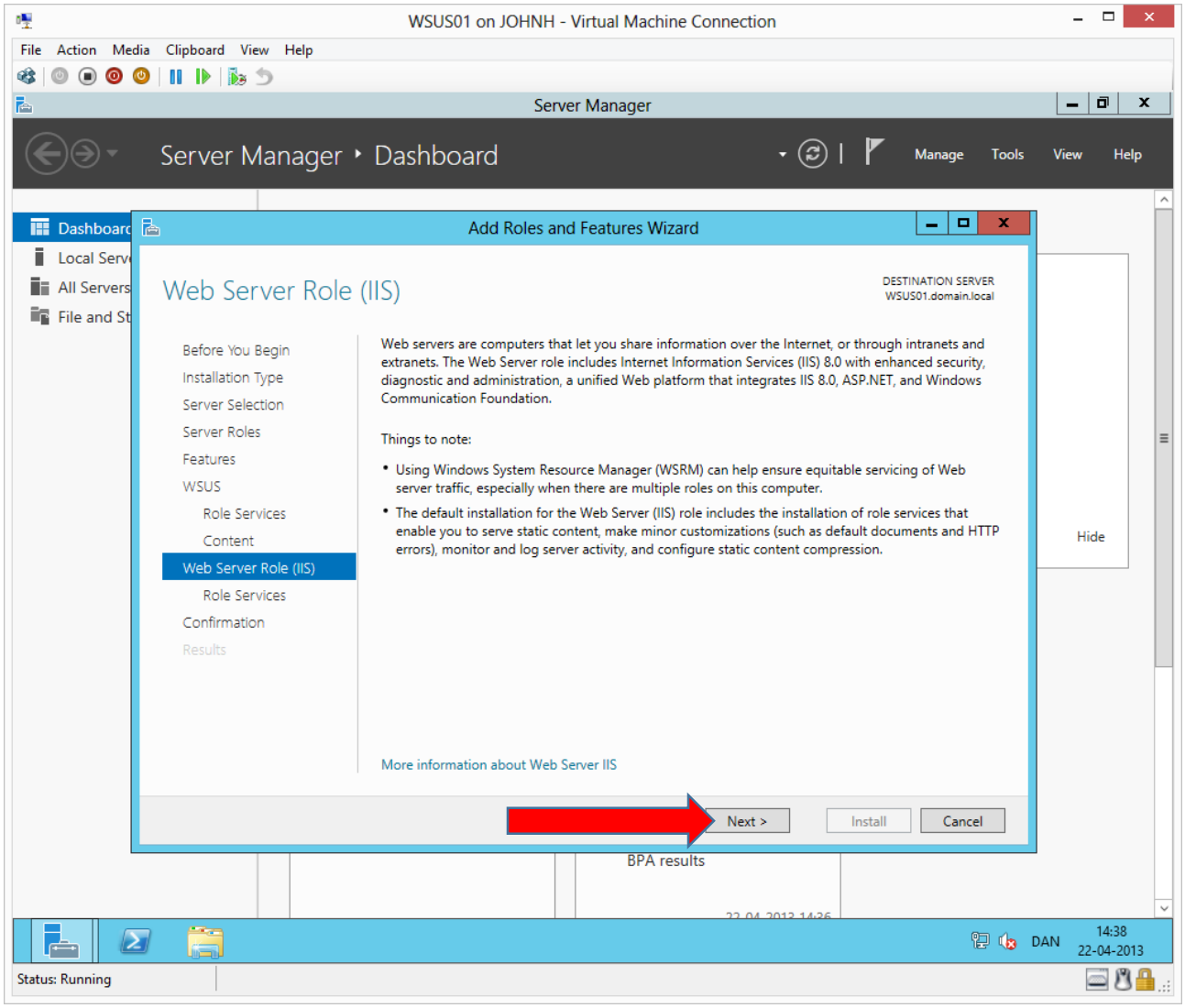

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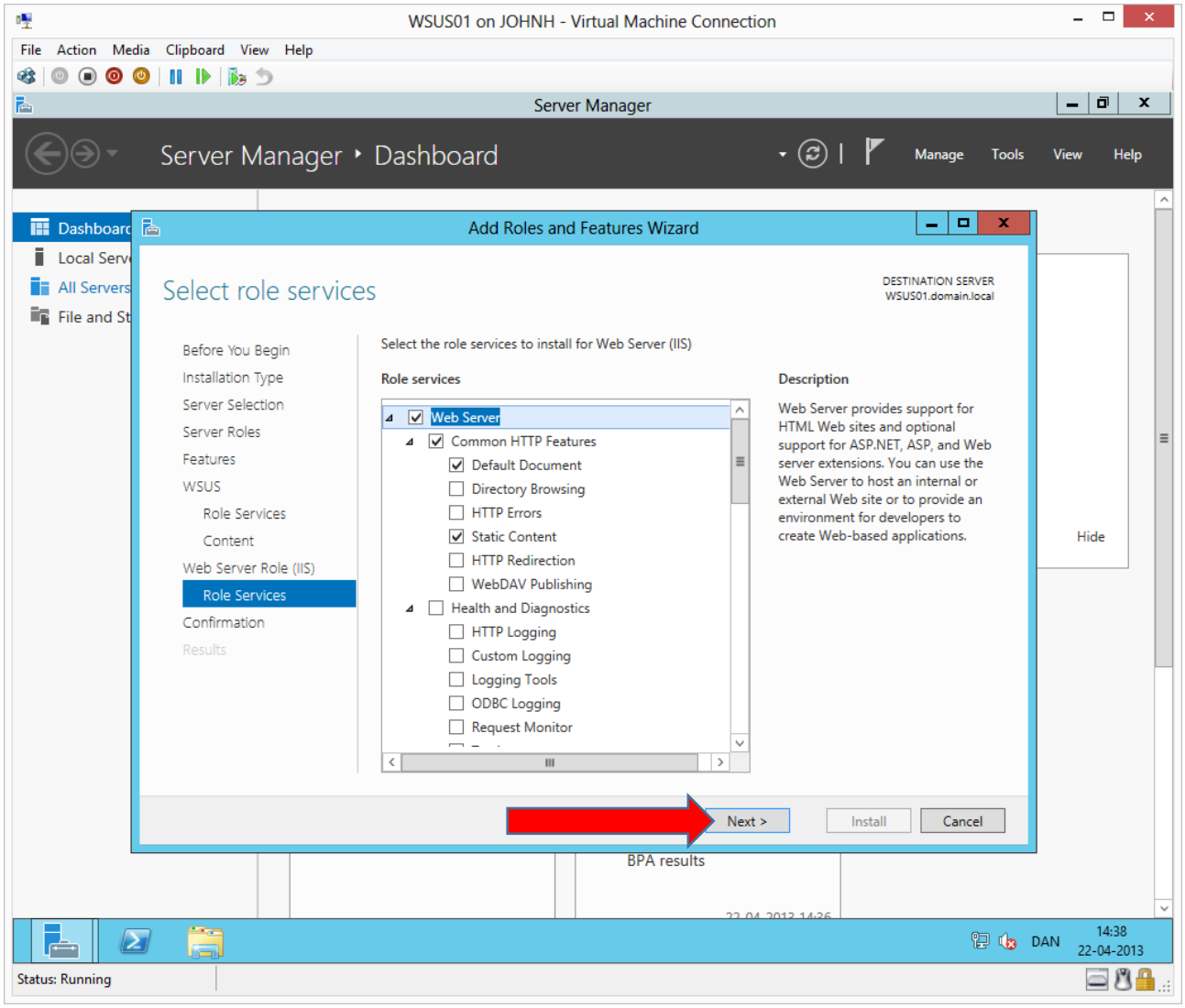

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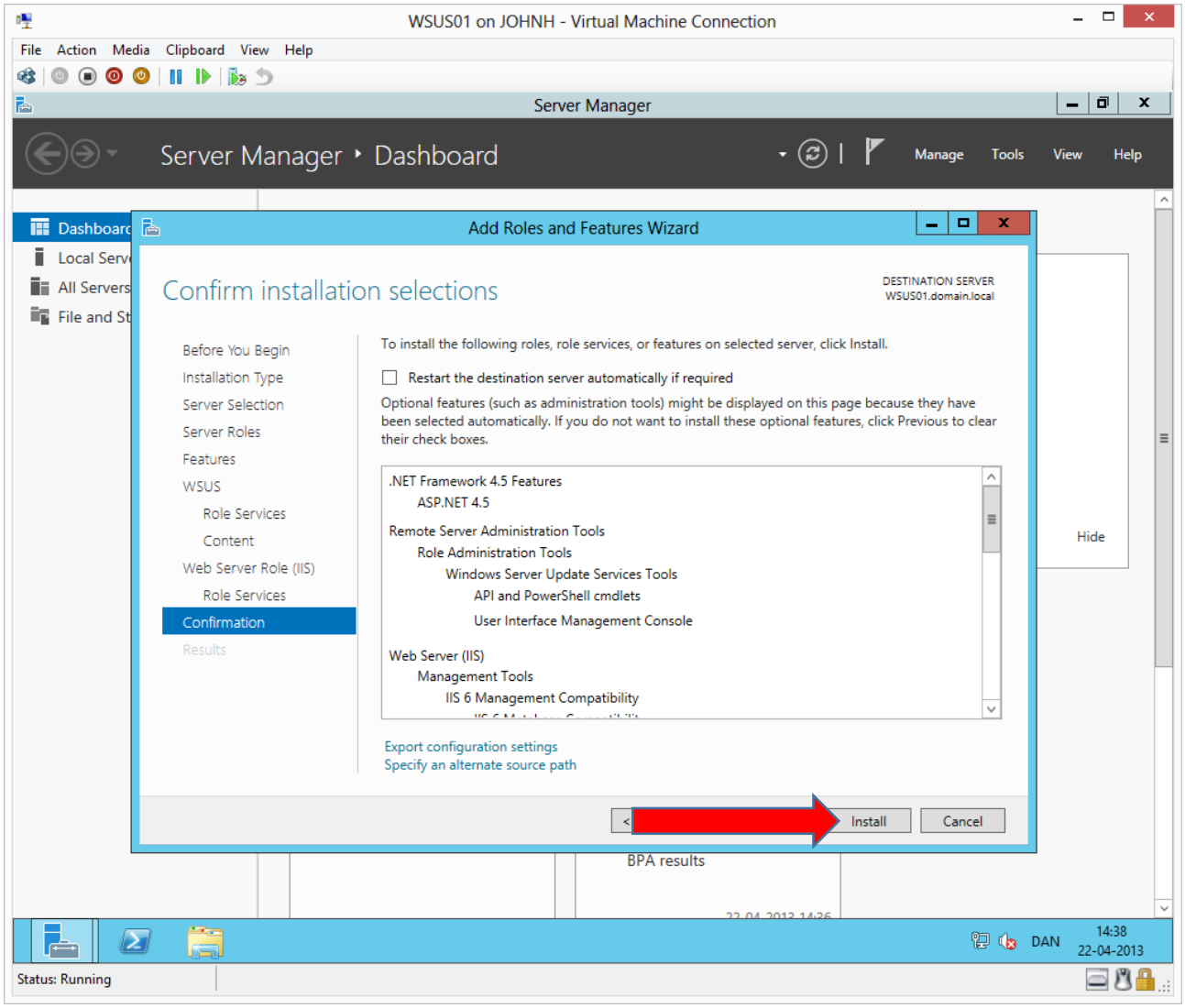

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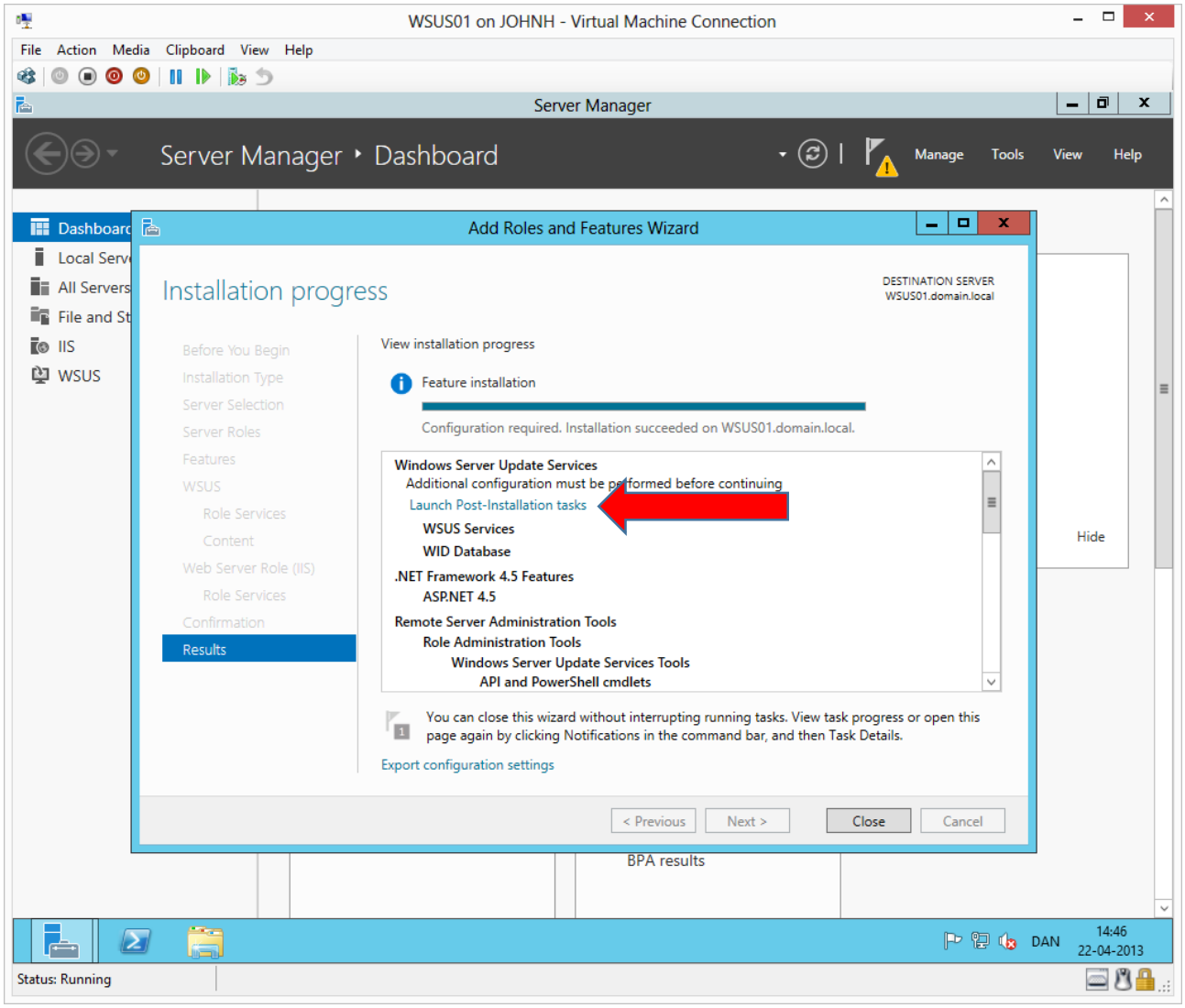

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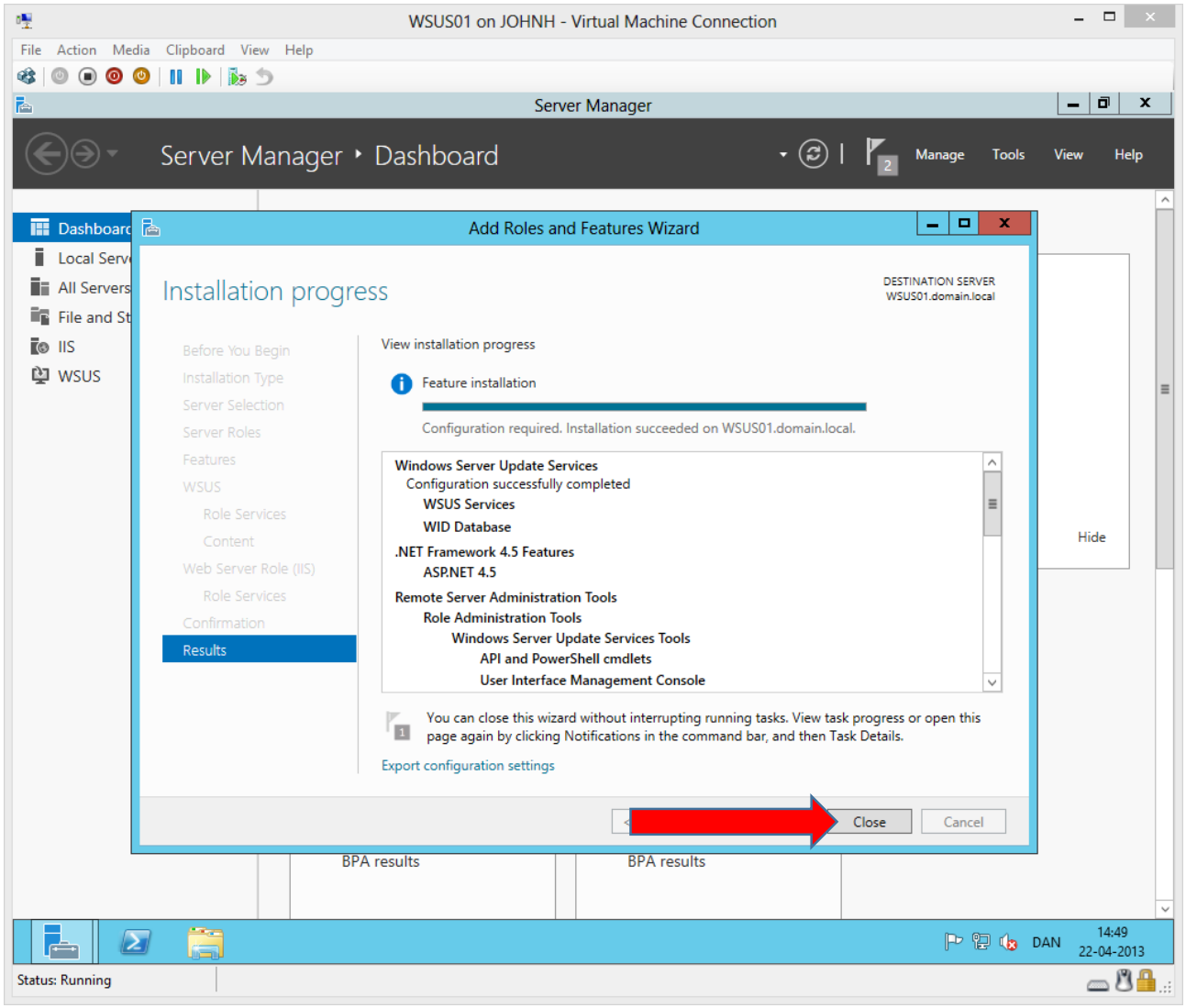

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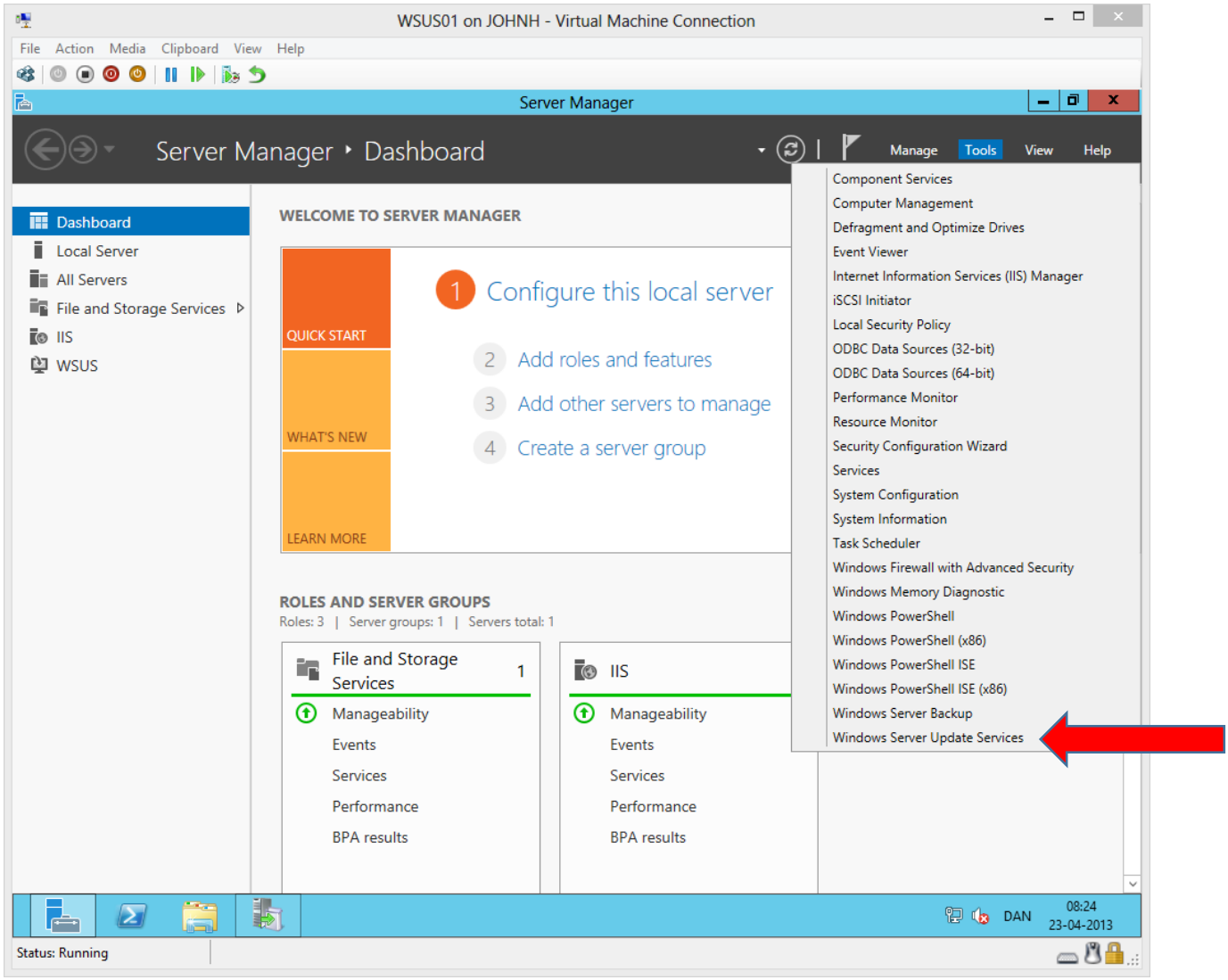

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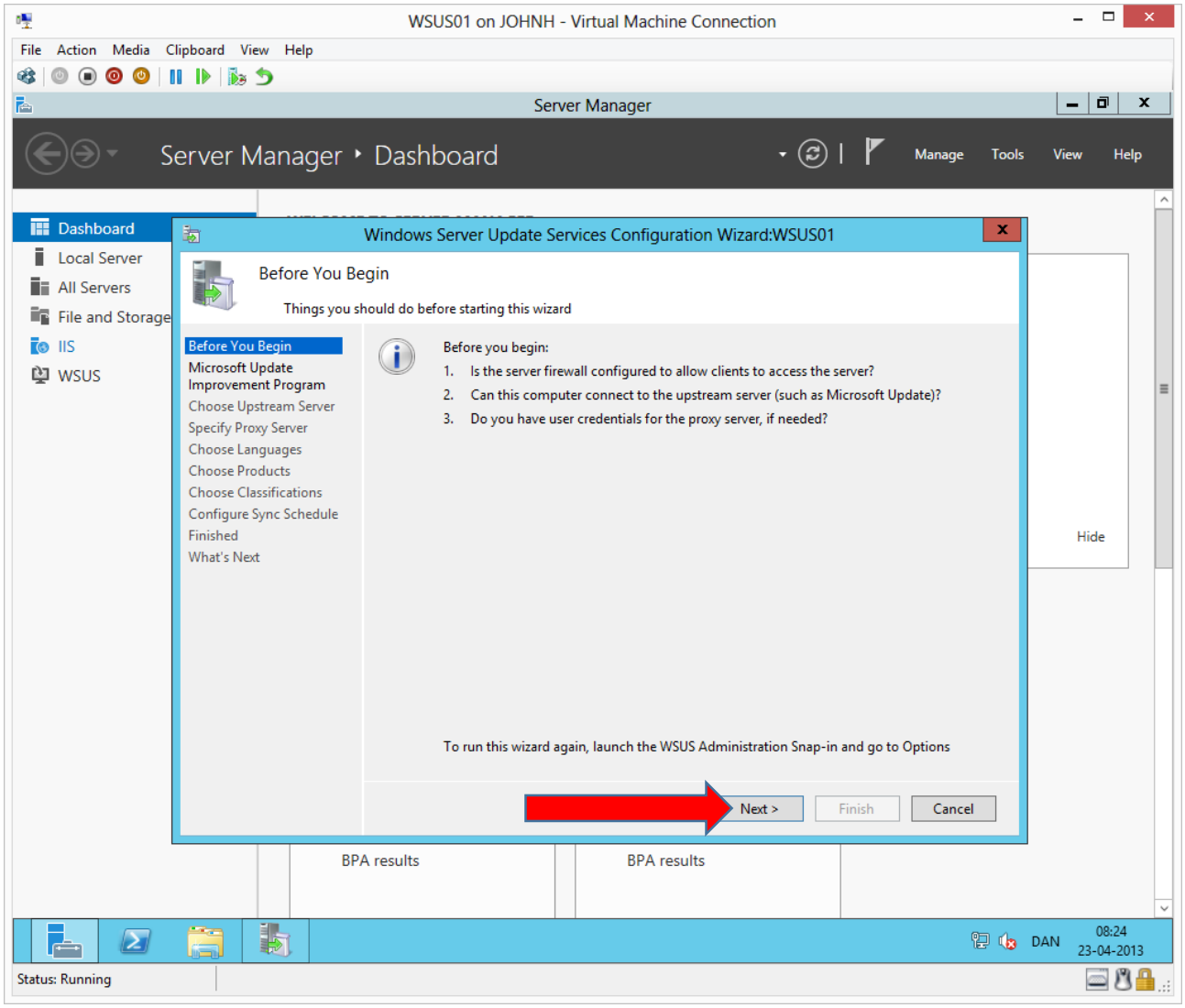

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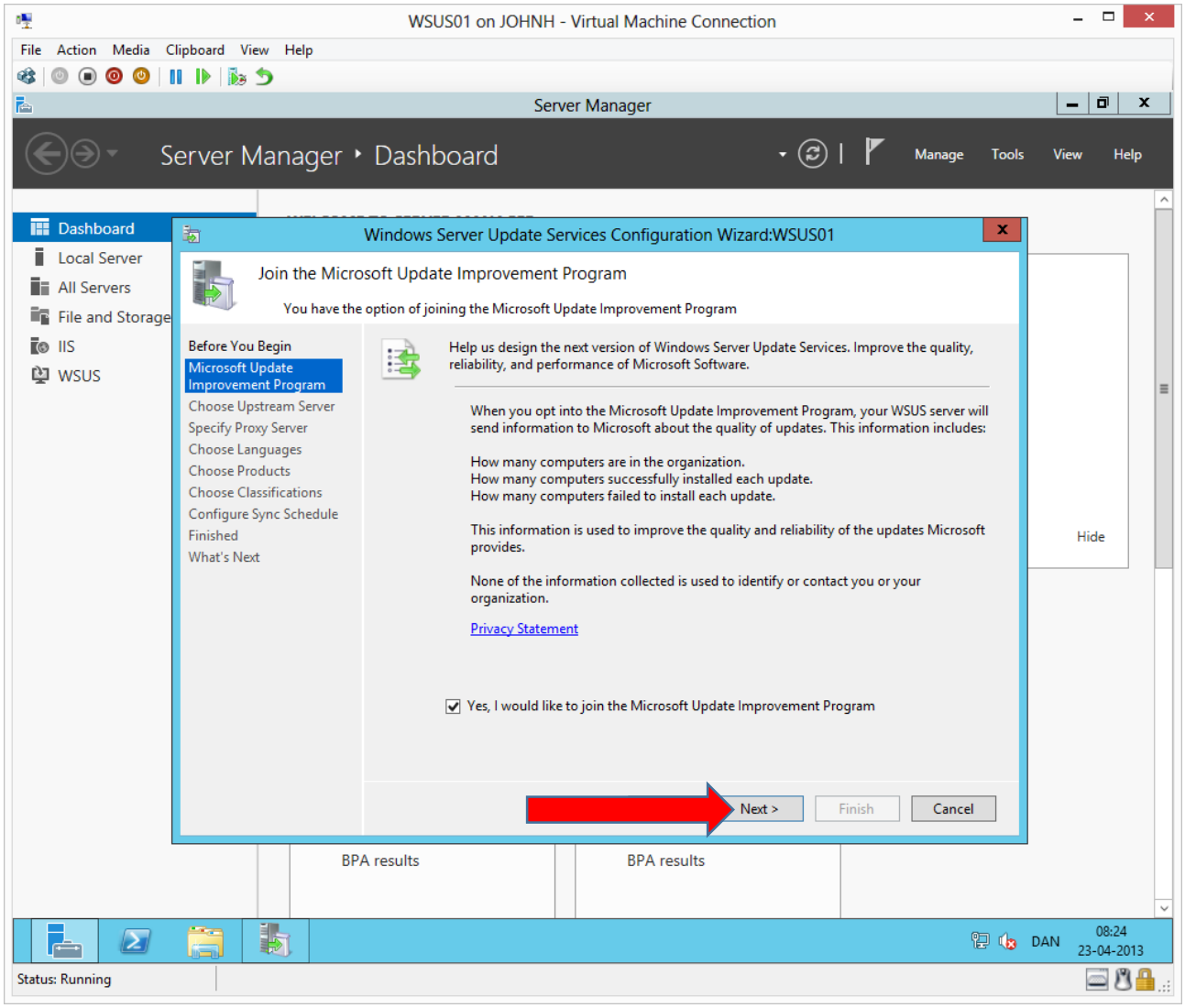

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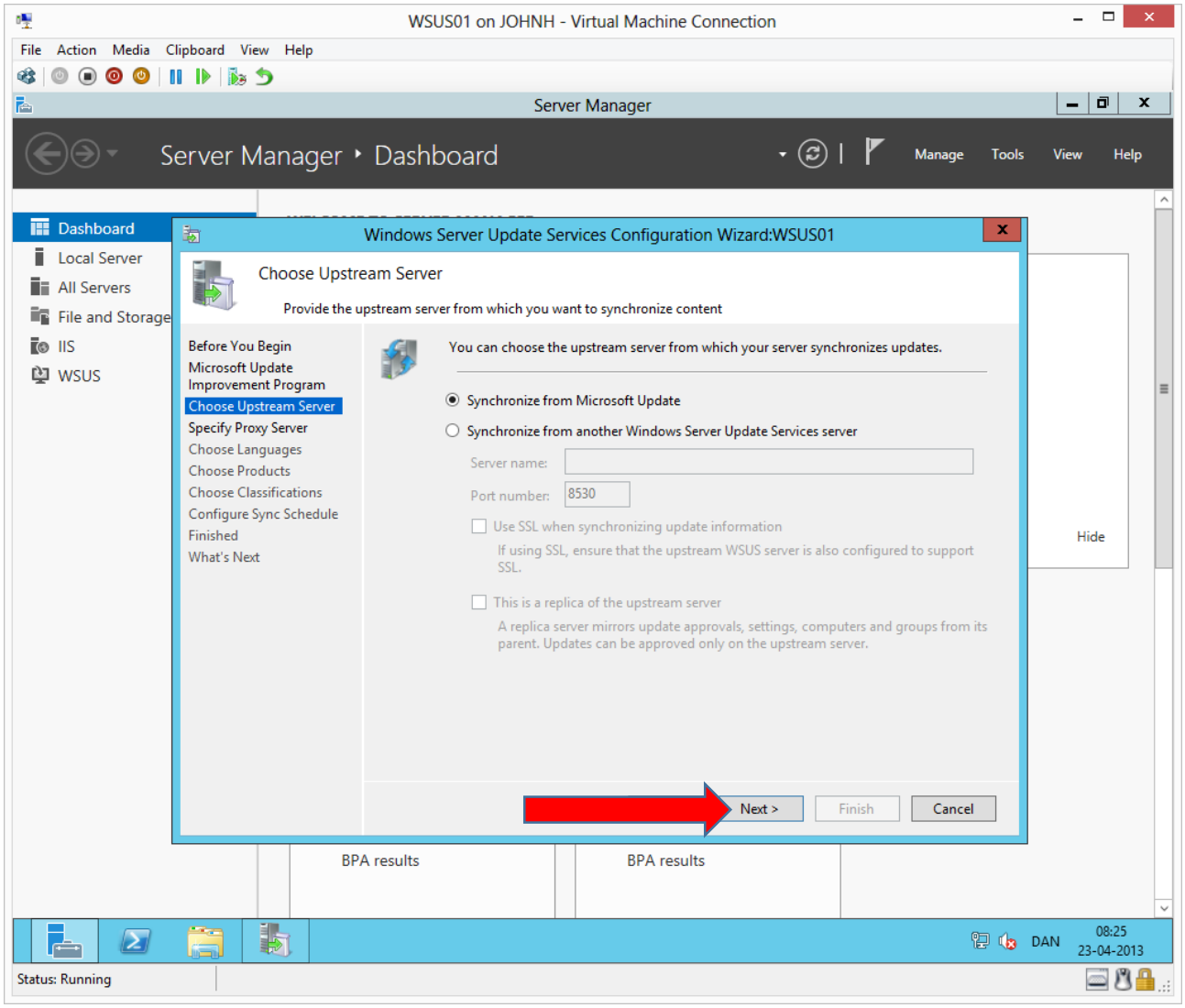

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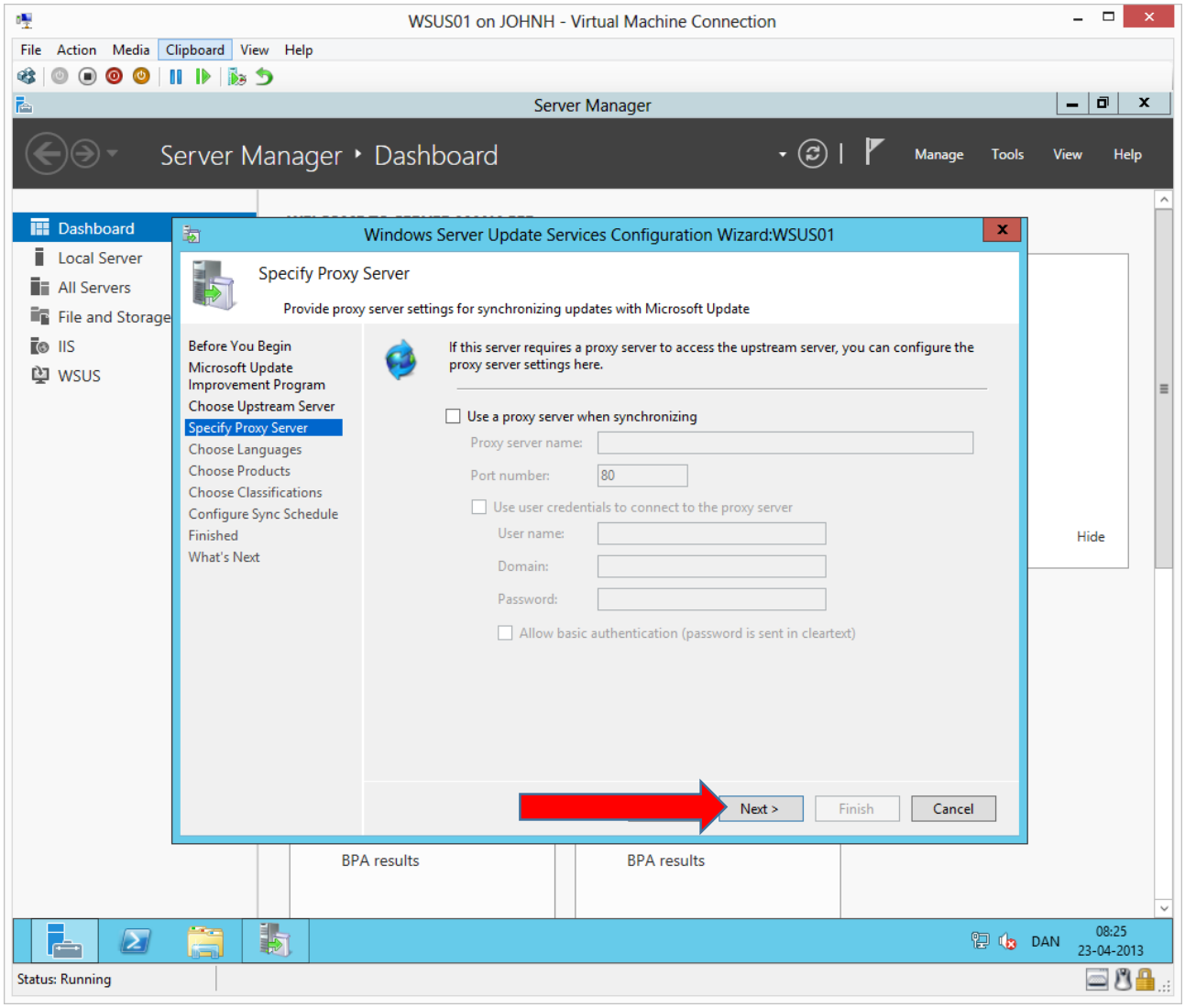

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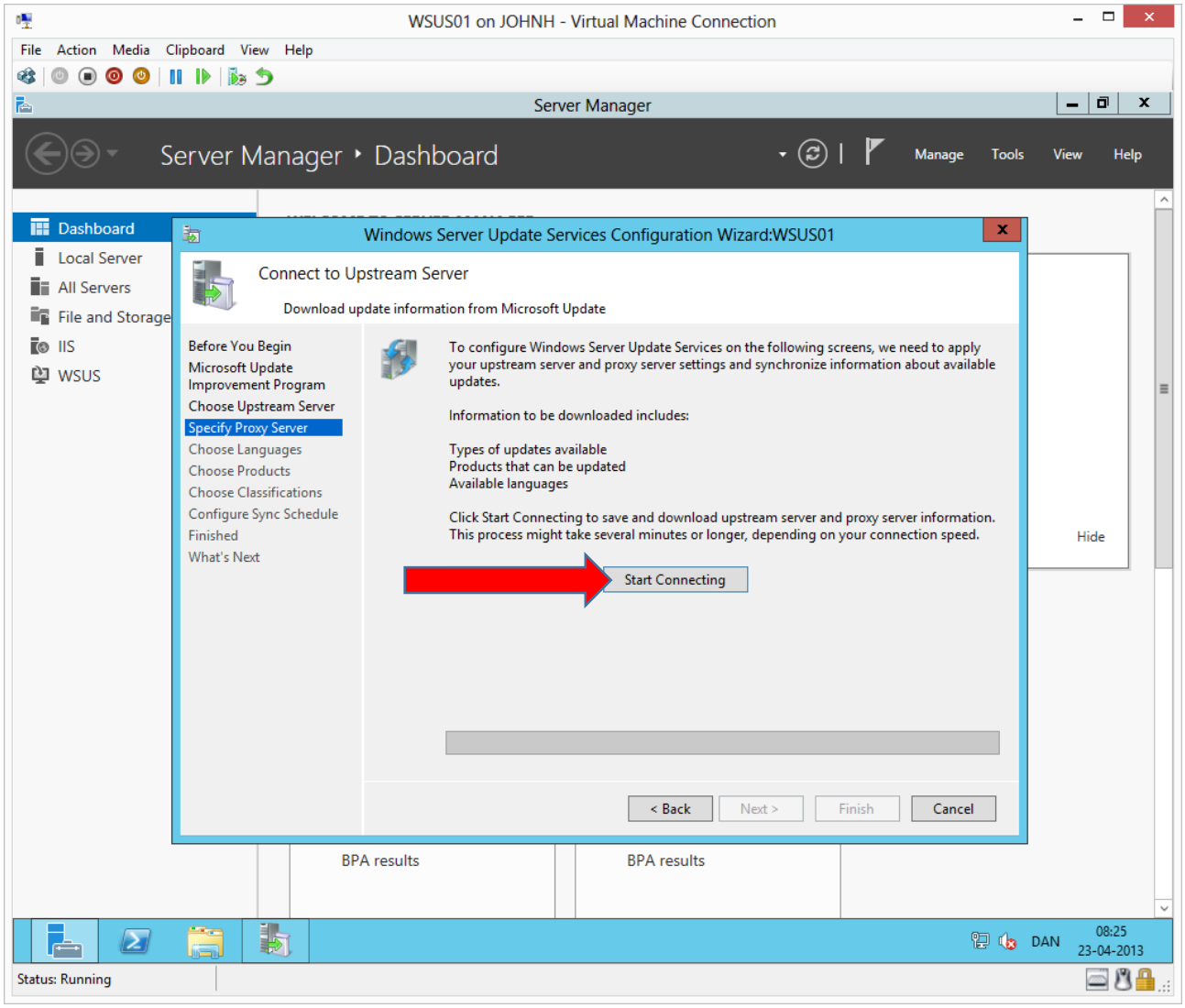

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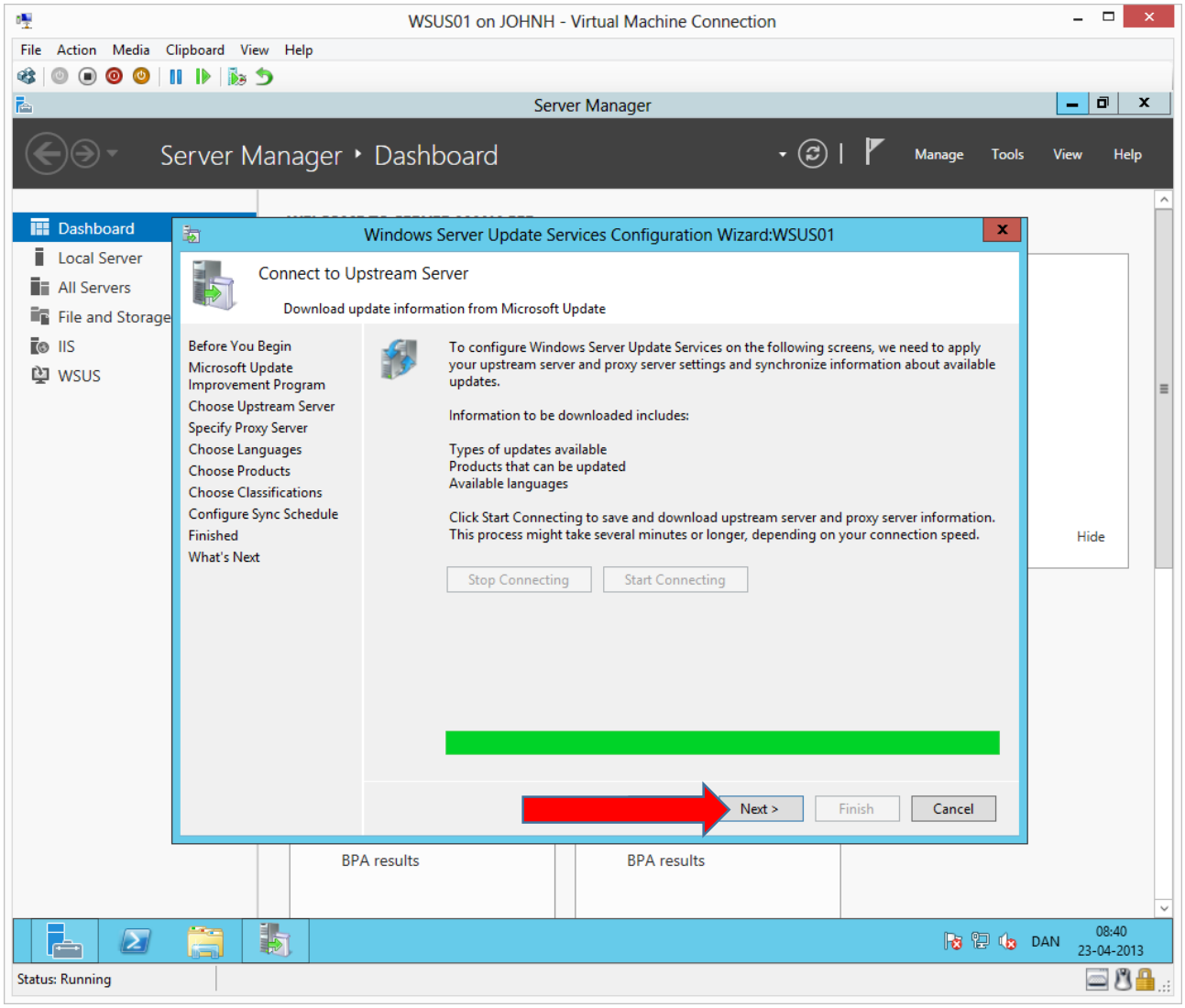

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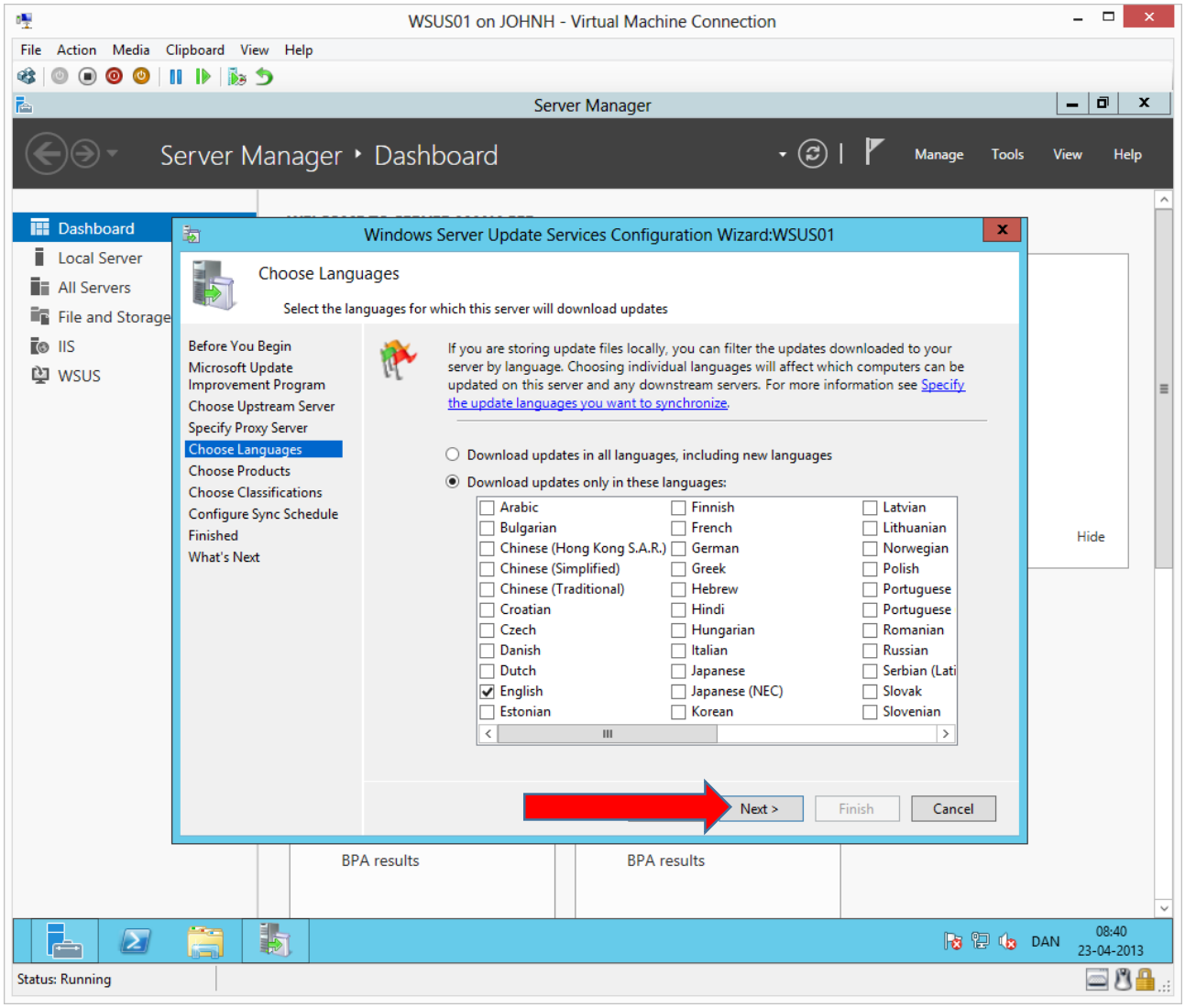

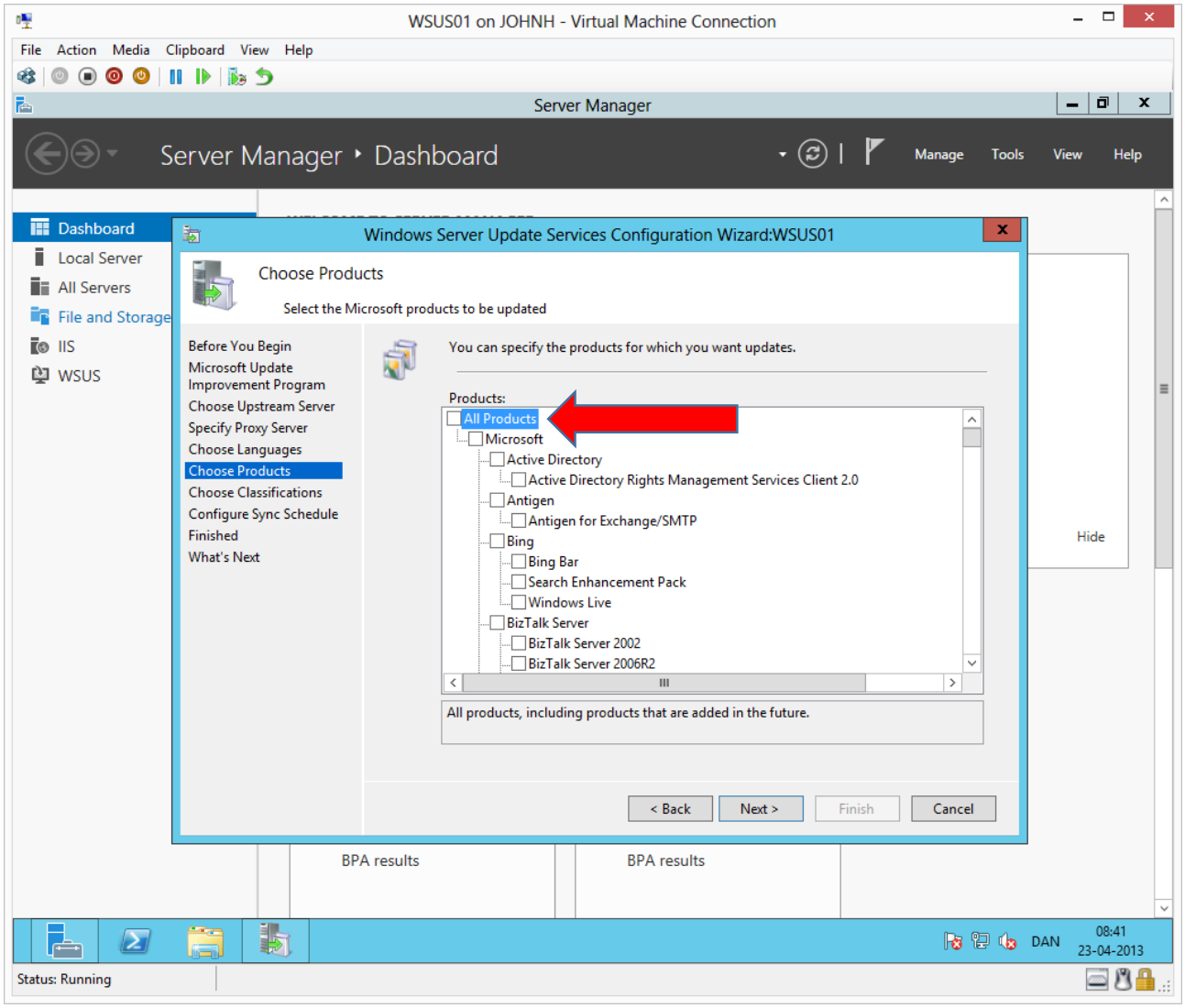

First put a check mark in **All Products** then remove it again. This way we have removed all below check marks including Microsoft Office updates, that we do not need in this environment.

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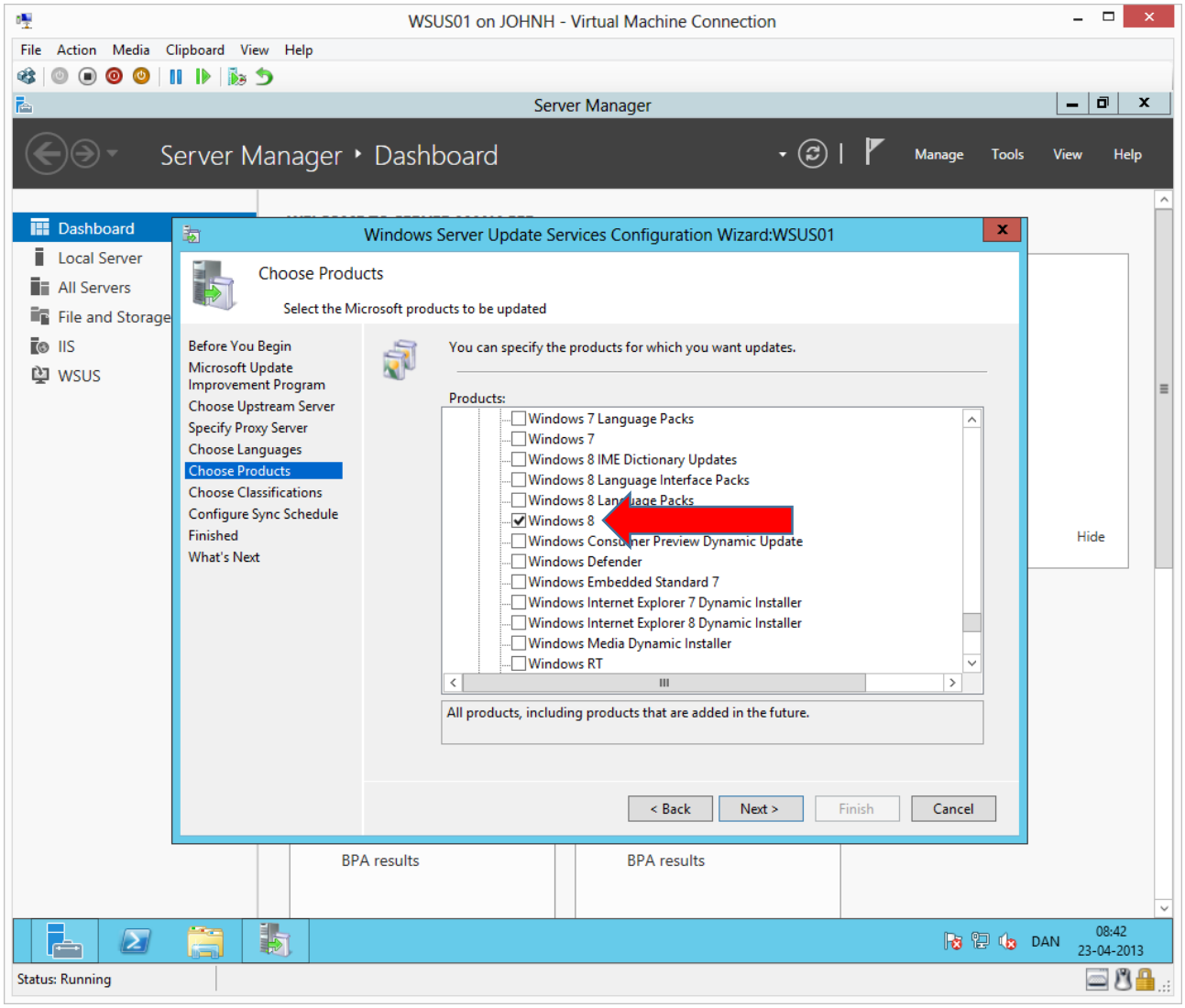

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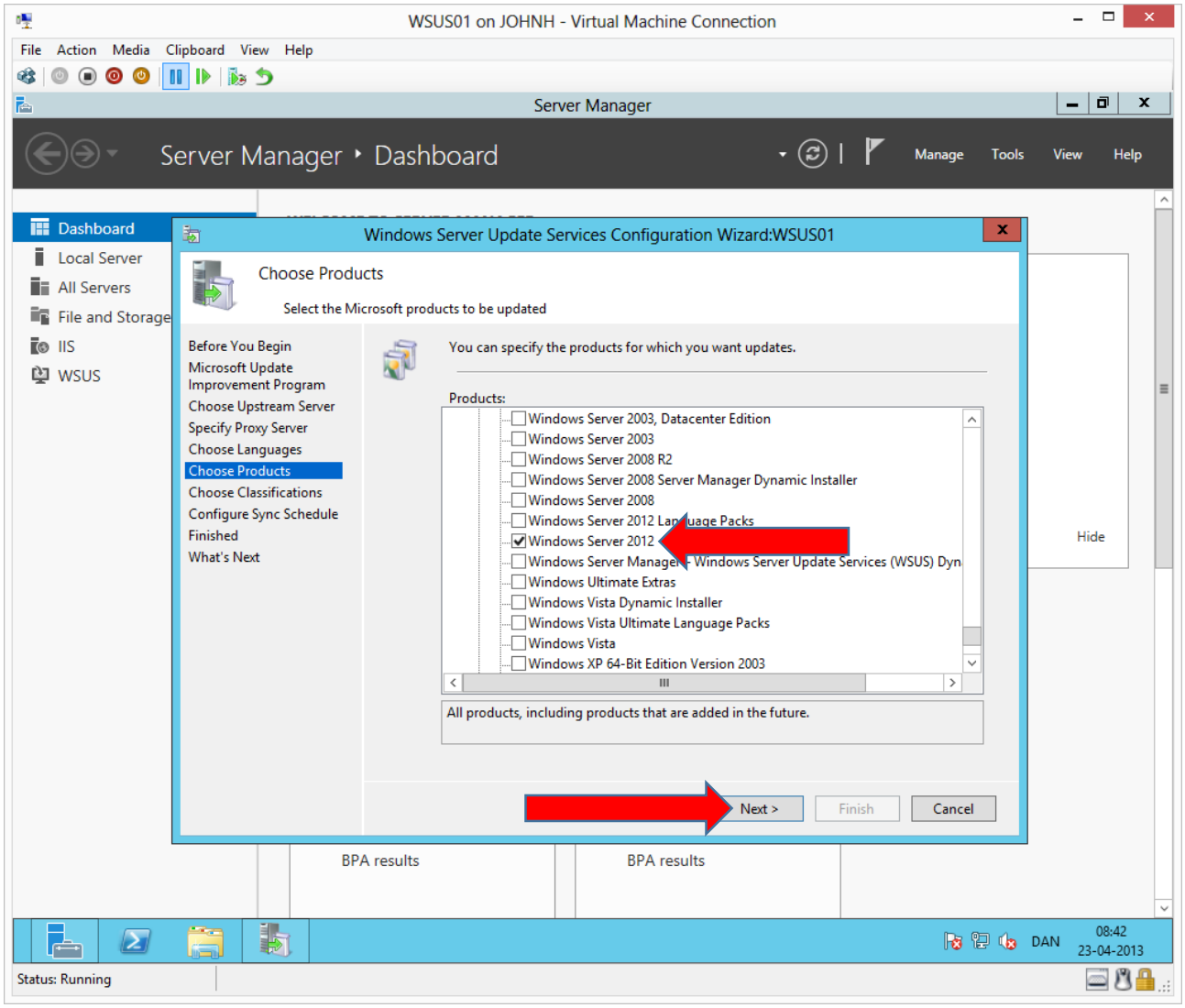

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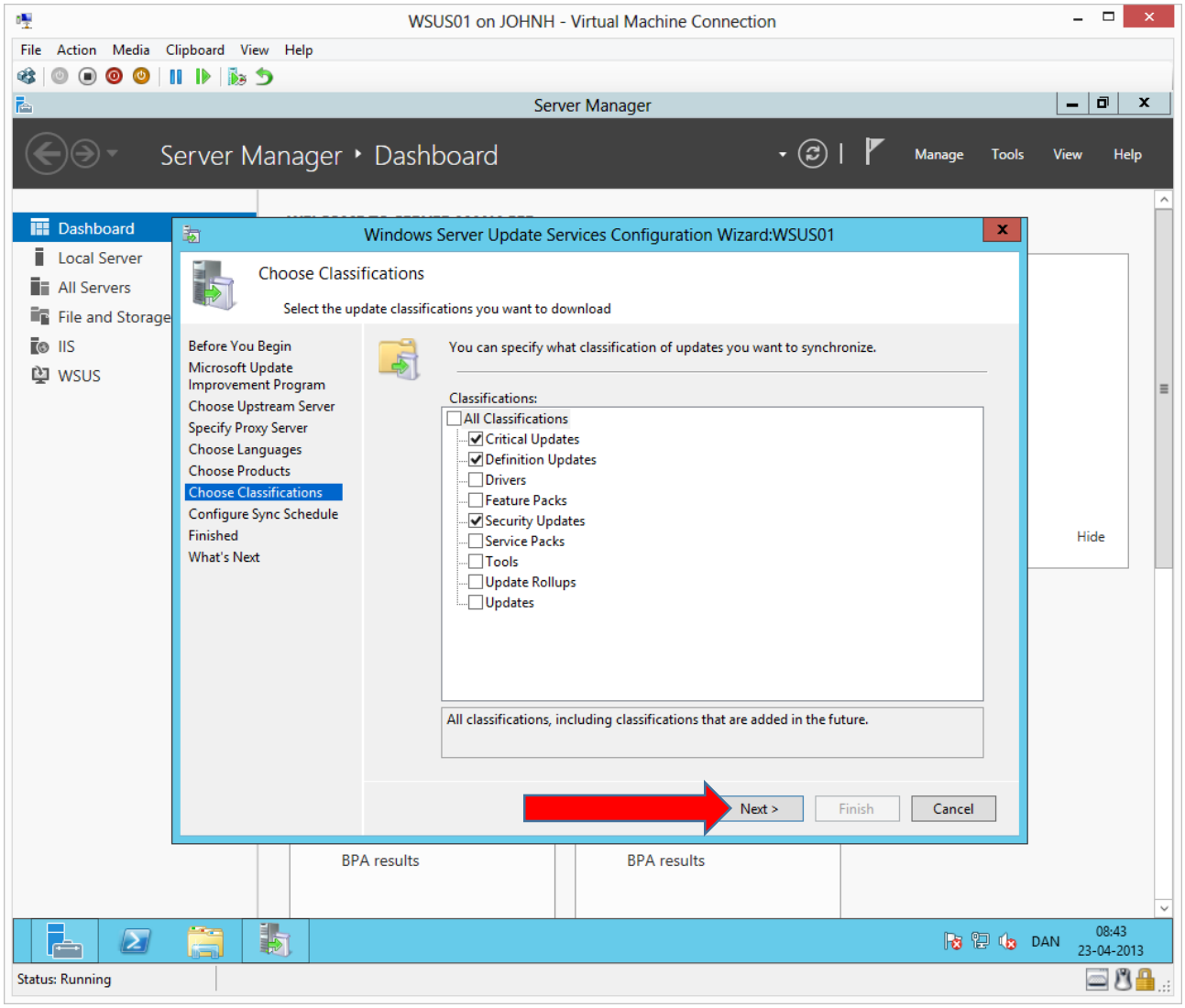

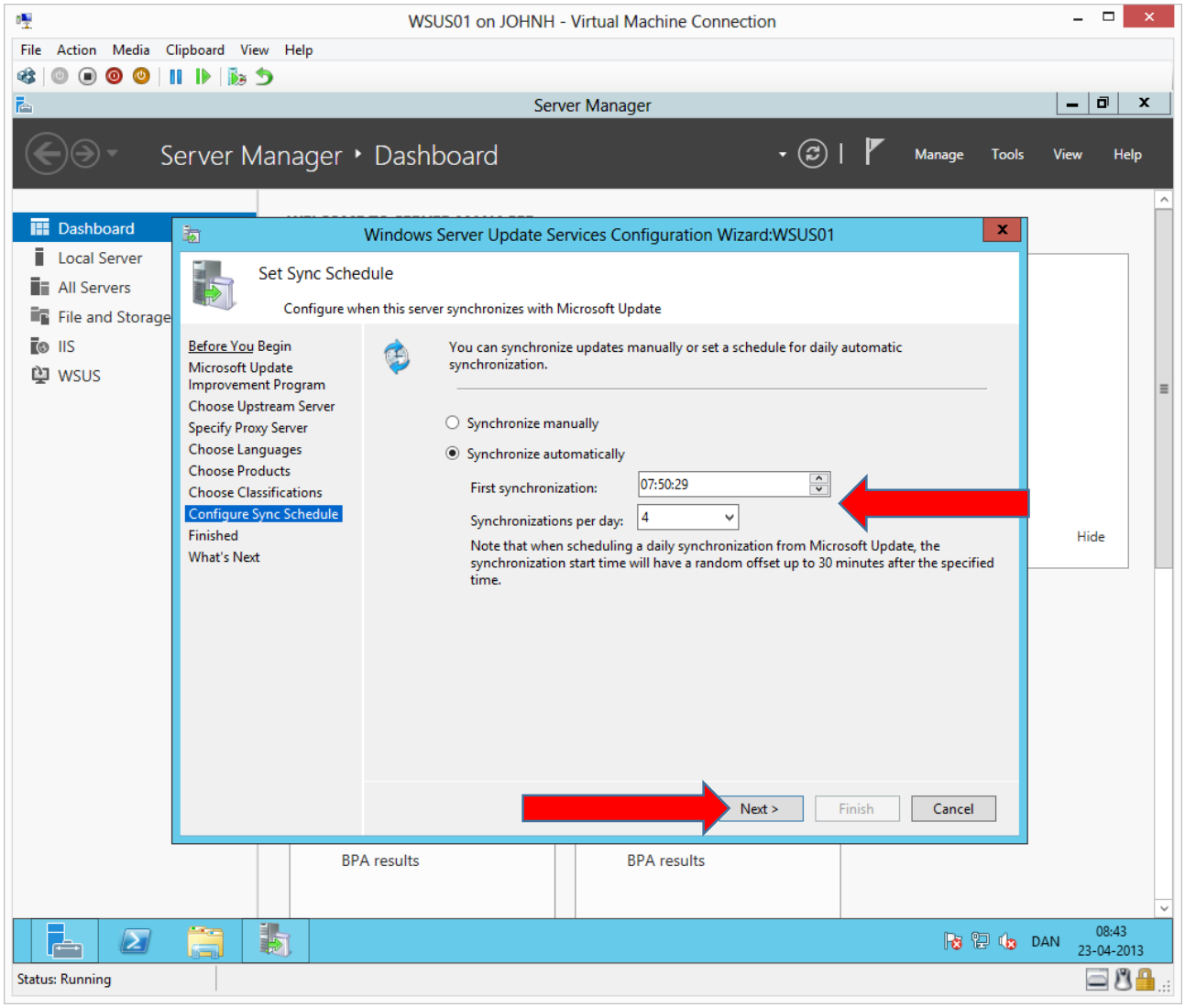

How often must WSUS01 check the public Microsoft Update servers for new updates.

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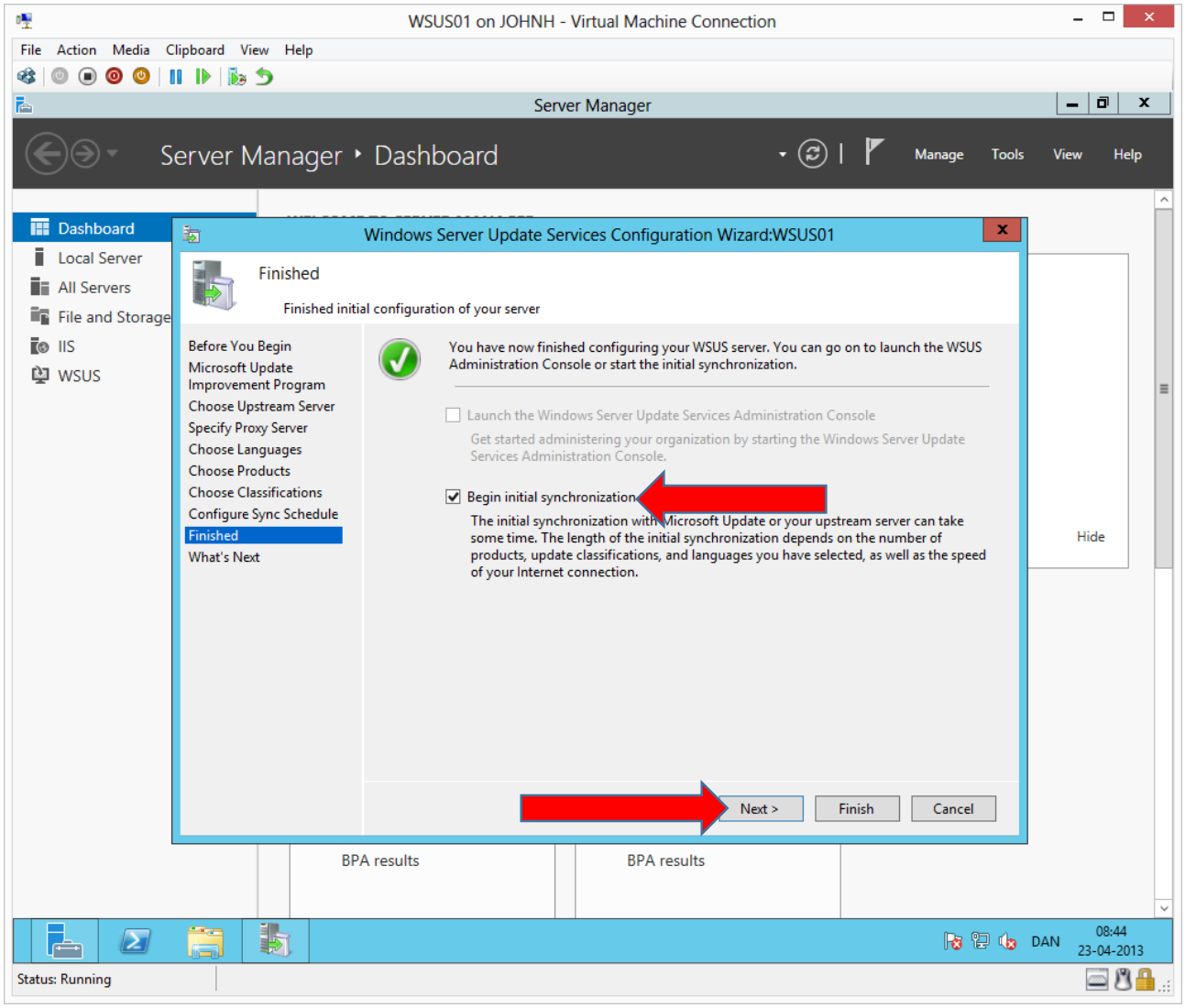
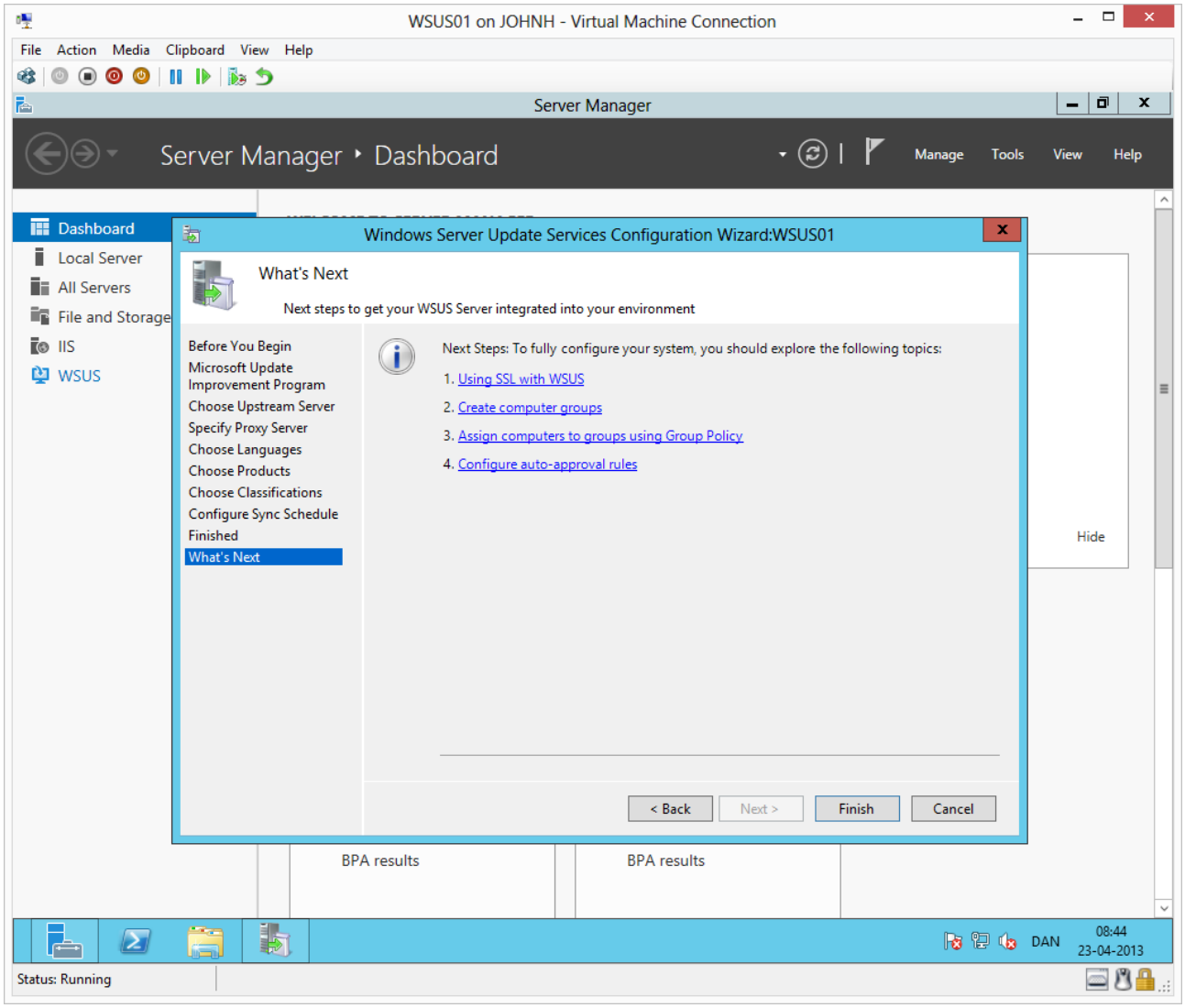
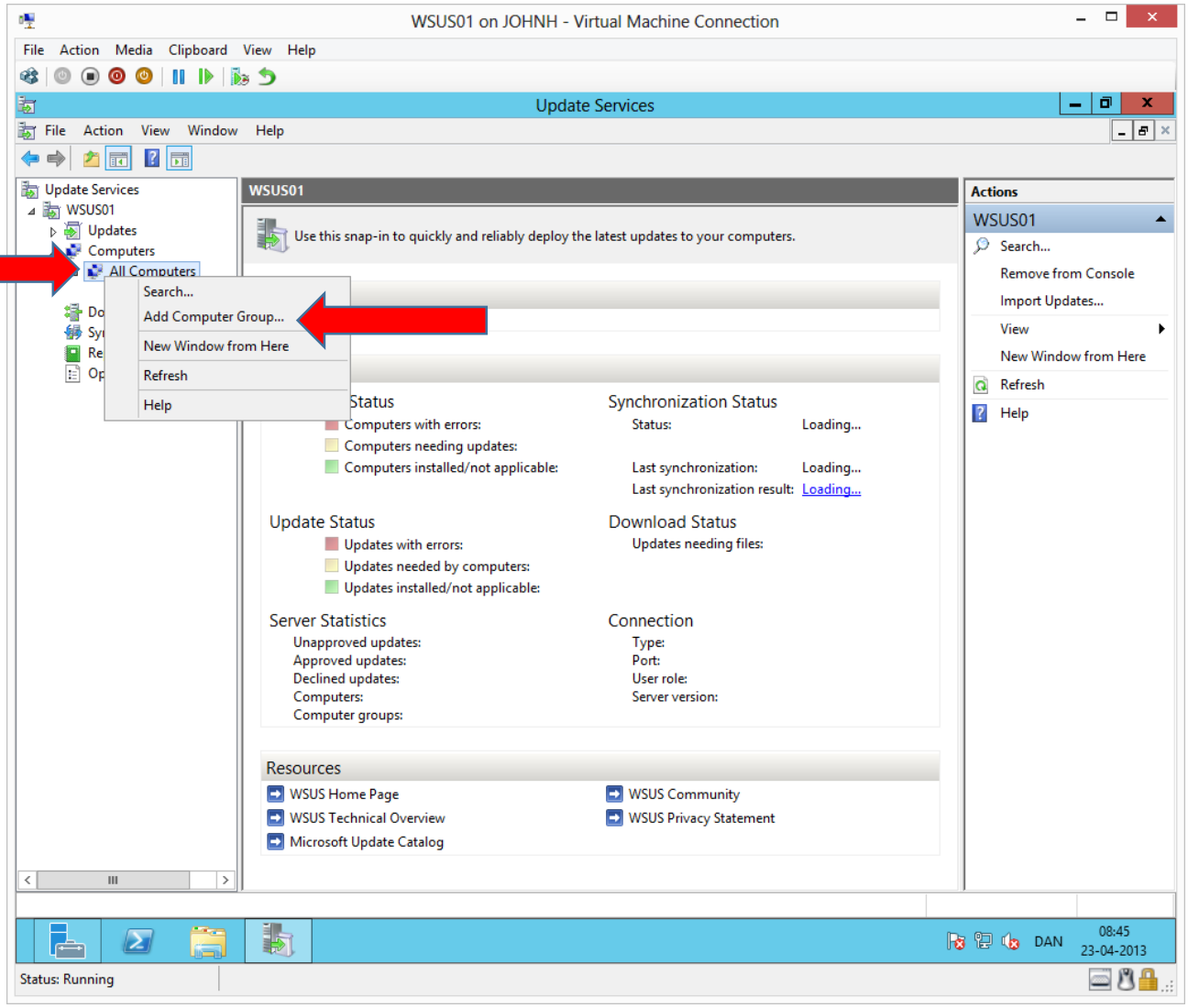




Help page for WSUS configuration (If you did not have this guide).



We will create WSUS computer groups by right clicking **All Computers→Add Computer Group…**

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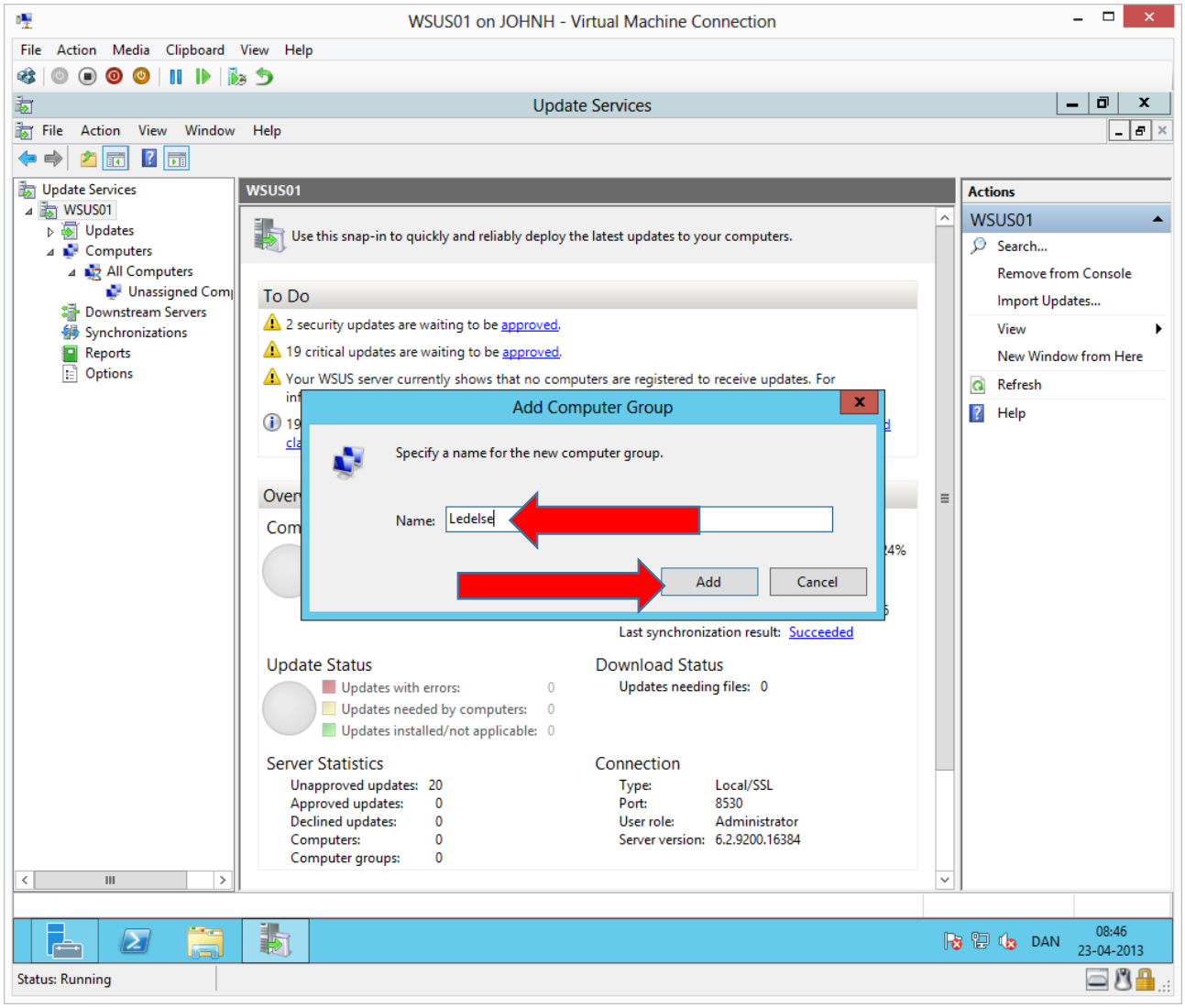
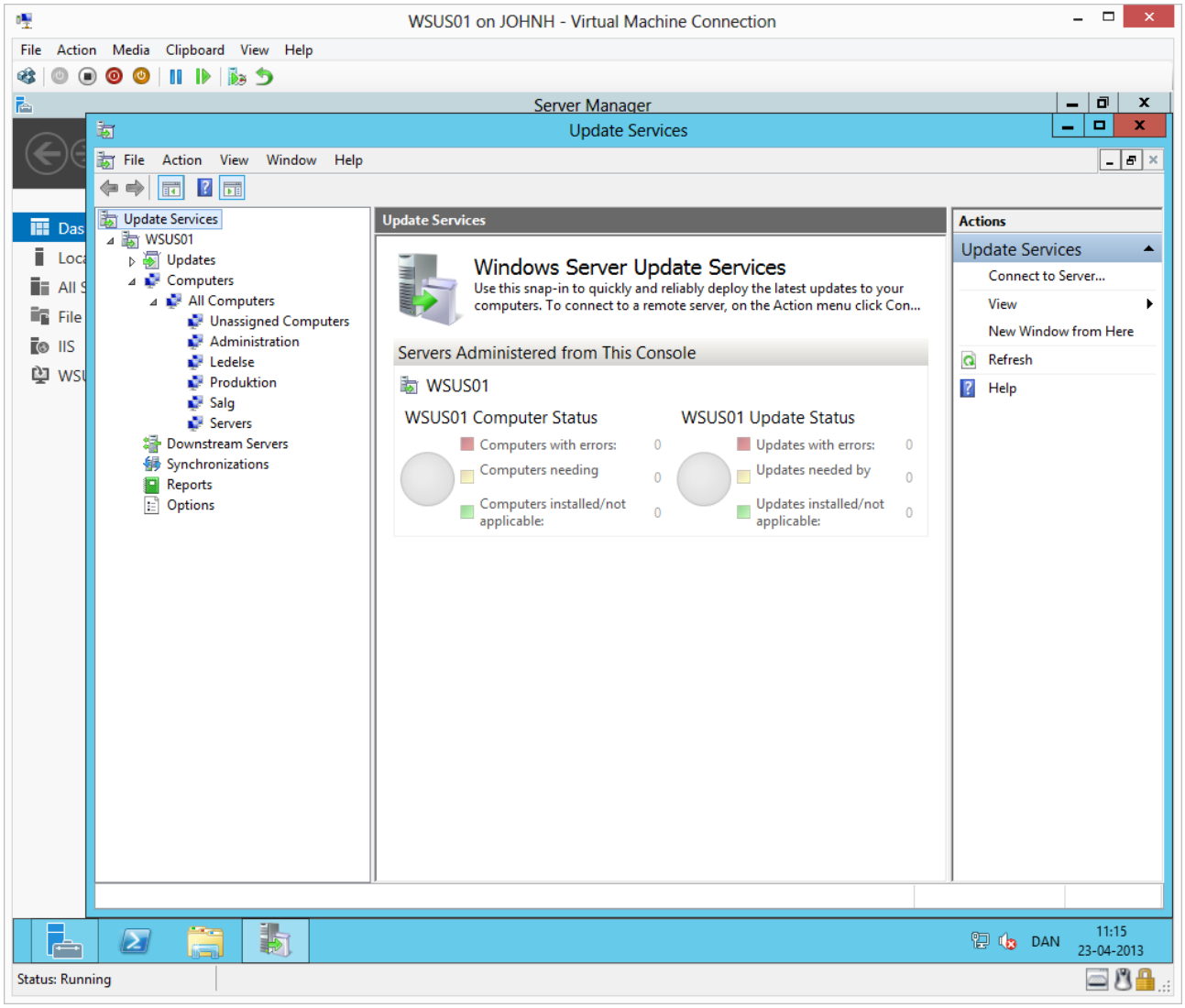
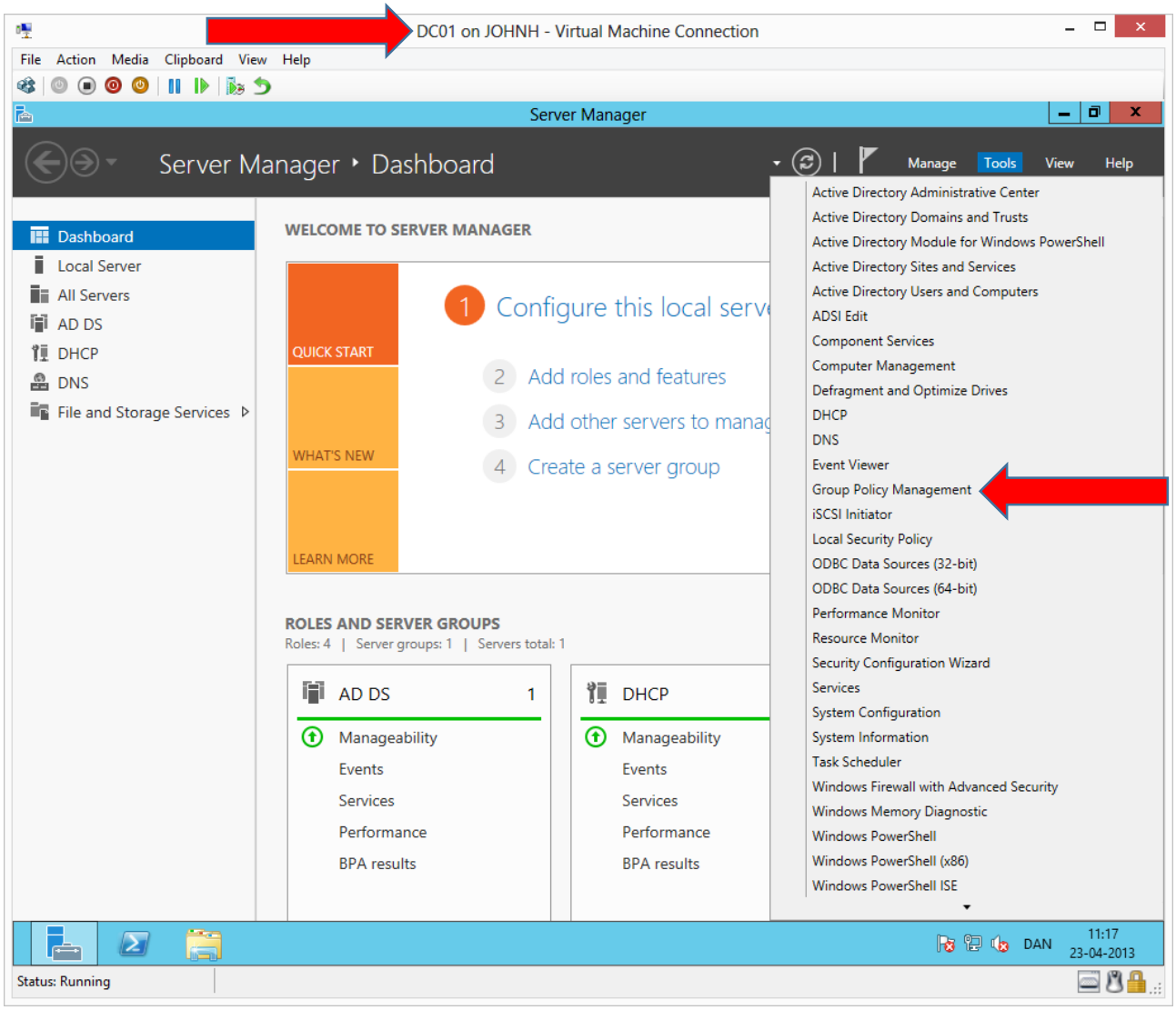


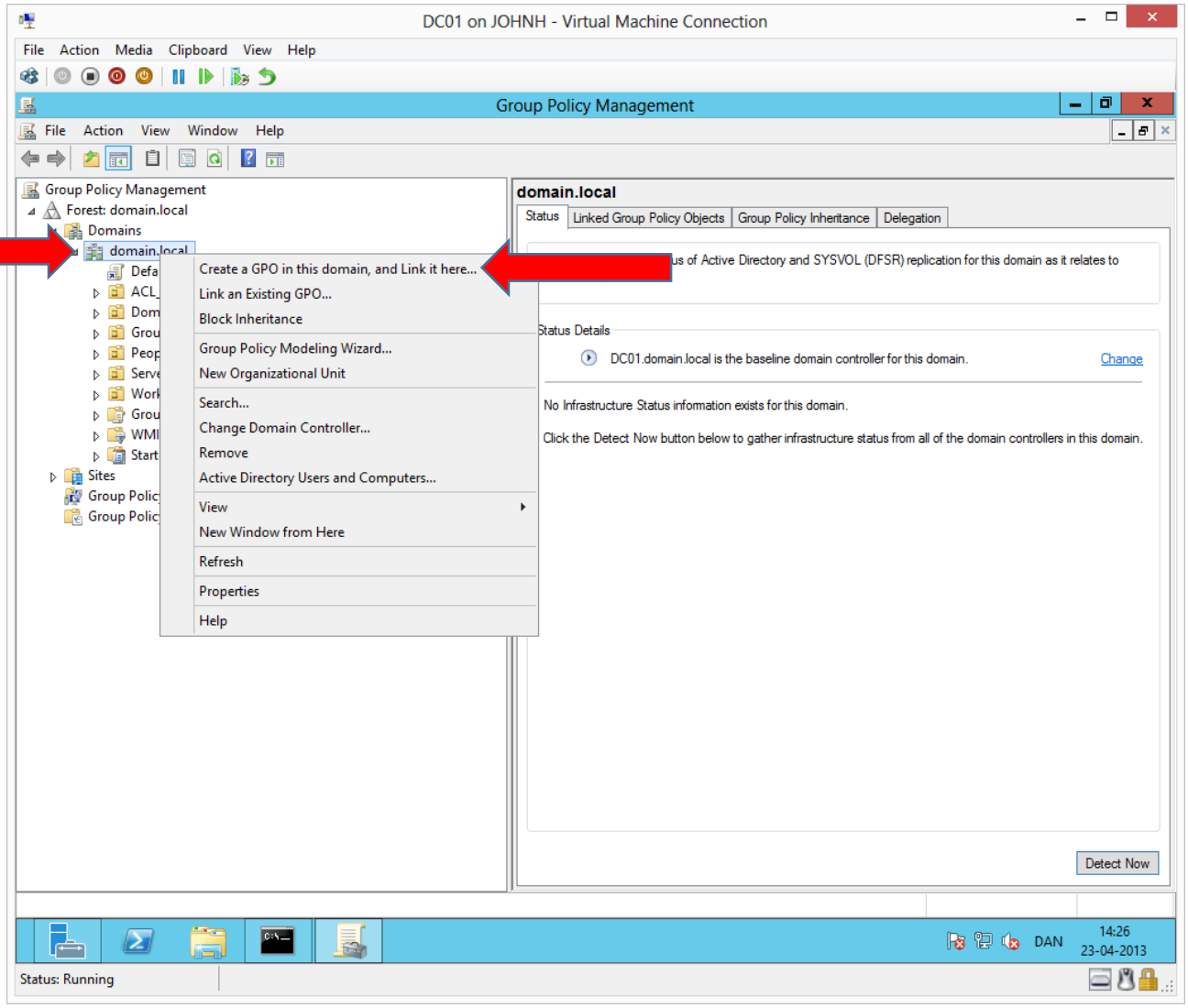


Create the remaining computer groups above.

Configuration with Group Policy Object (GPO)

In this part we create a GPO, that configures our workstations and servers to use our own WSUS server for Microsoft Updates.


DC01 on JOHNH - Virtual Machine Connection
File Action Media Clipboard View Help
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storage Services
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local serv
2 Add roles and features
3 Add other servers to manag
4 Create a server group
ROLES AND SERVER GROUPS
Roles: 4 | Server groups: 1 | Servers total: 1
AD DS 1
Manageability
Events
Services
Performance
BPA results
DHCP
Manageability
Events
Services
Performance
BPA results
Active Directory Administrative Center
Active Directory Domains and Trusts
Active Directory Module for Windows PowerShell
Active Directory Sites and Services
Active Directory Users and Computers
ADSI Edit
Component Services
Computer Management
Defragment and Optimize Drives
DHCP
DNS
Event Viewer
Group Policy Management
iSCSI Initiator
Local Security Policy
ODBC Data Sources (32-bit)
ODBC Data Sources (64-bit)
Performance Monitor
Resource Monitor
Security Configuration Wizard
Services
System Configuration
System Information
Task Scheduler
Windows Firewall with Advanced Security
Windows Memory Diagnostic
Windows PowerShell
Windows PowerShell (x86)
Windows PowerShell ISE
DAN
11:17
23-04-2013
Status: Running



Create a new GPO by right clicking the domain name →**Create a GPO in this…**

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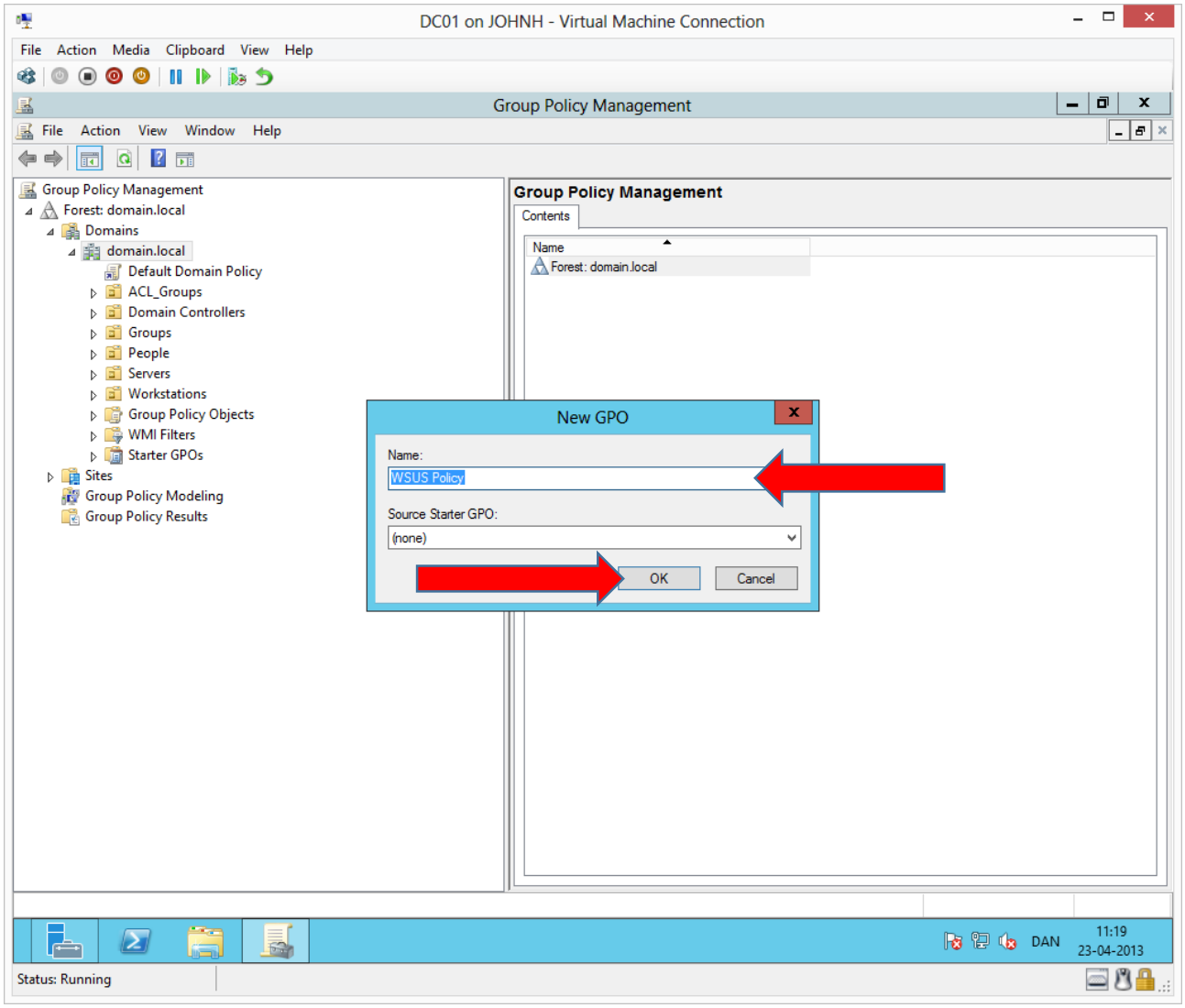
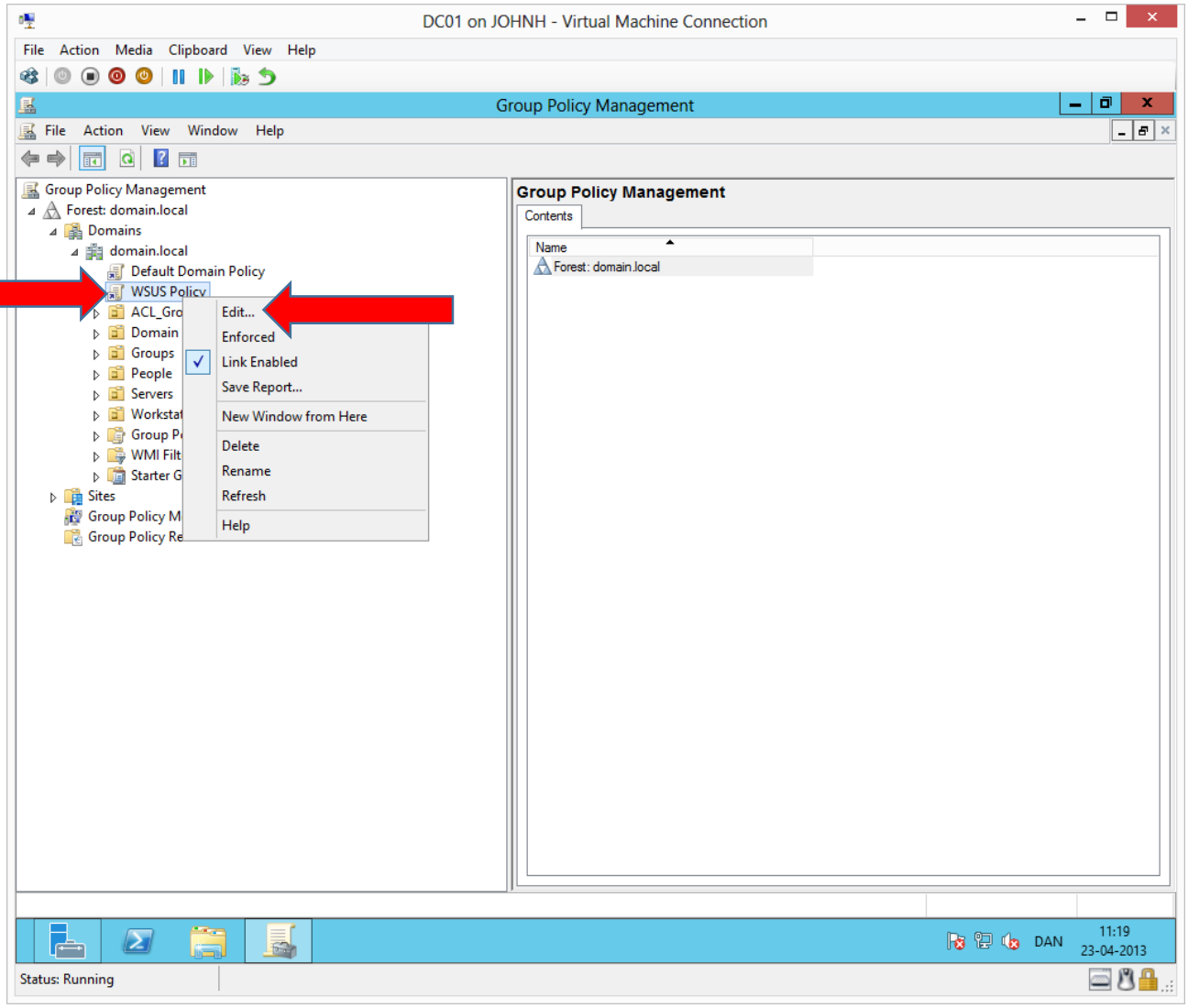
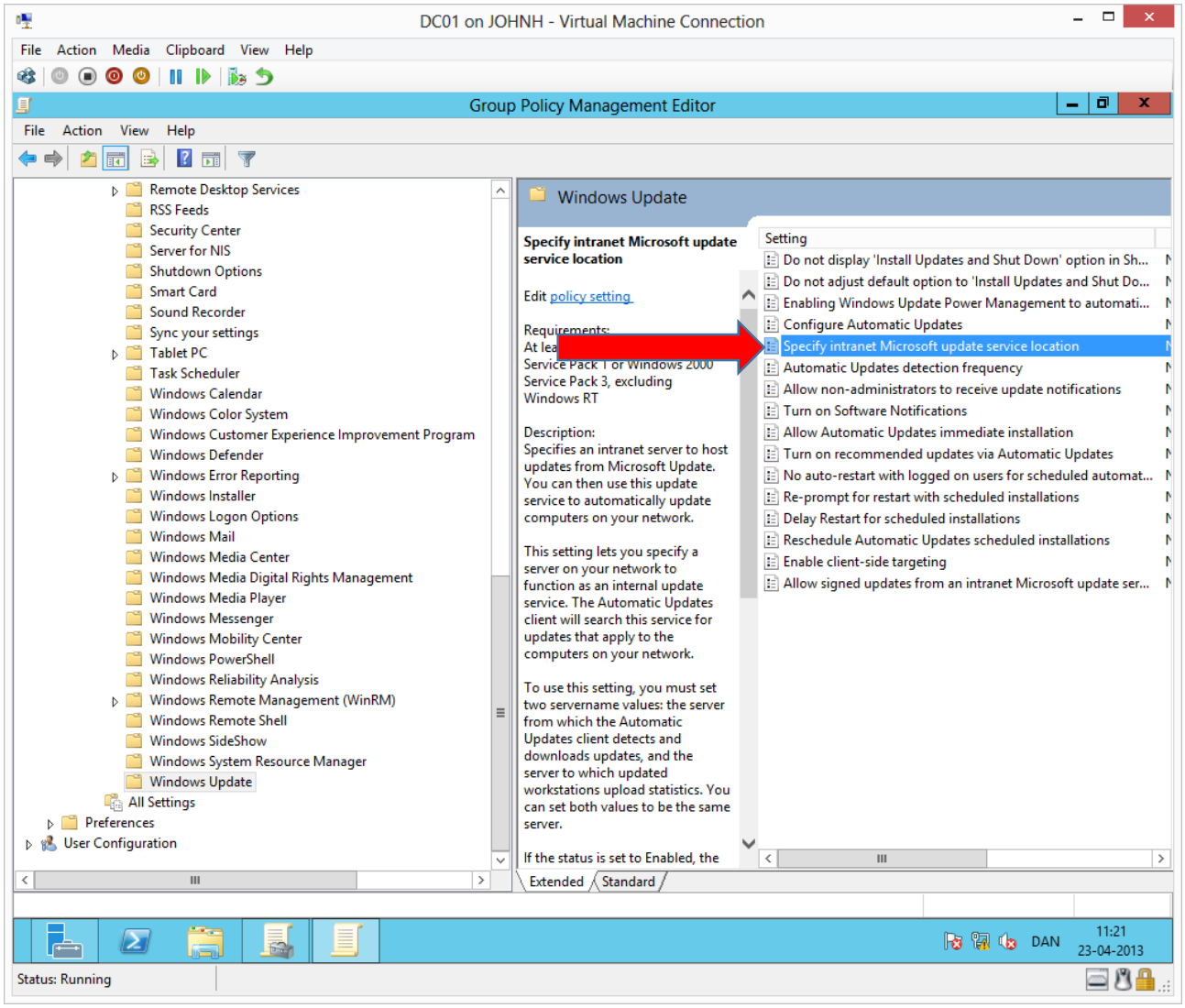
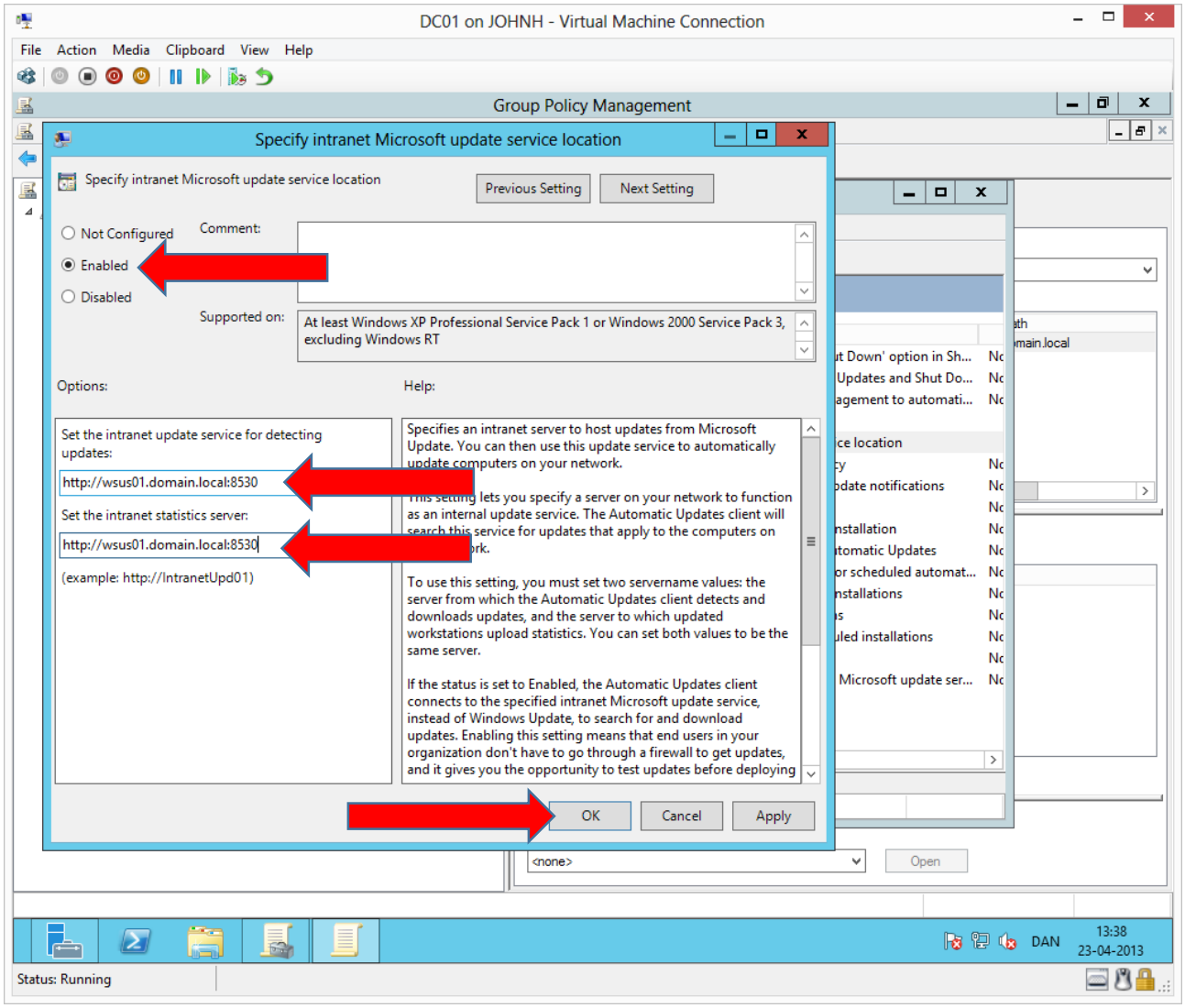




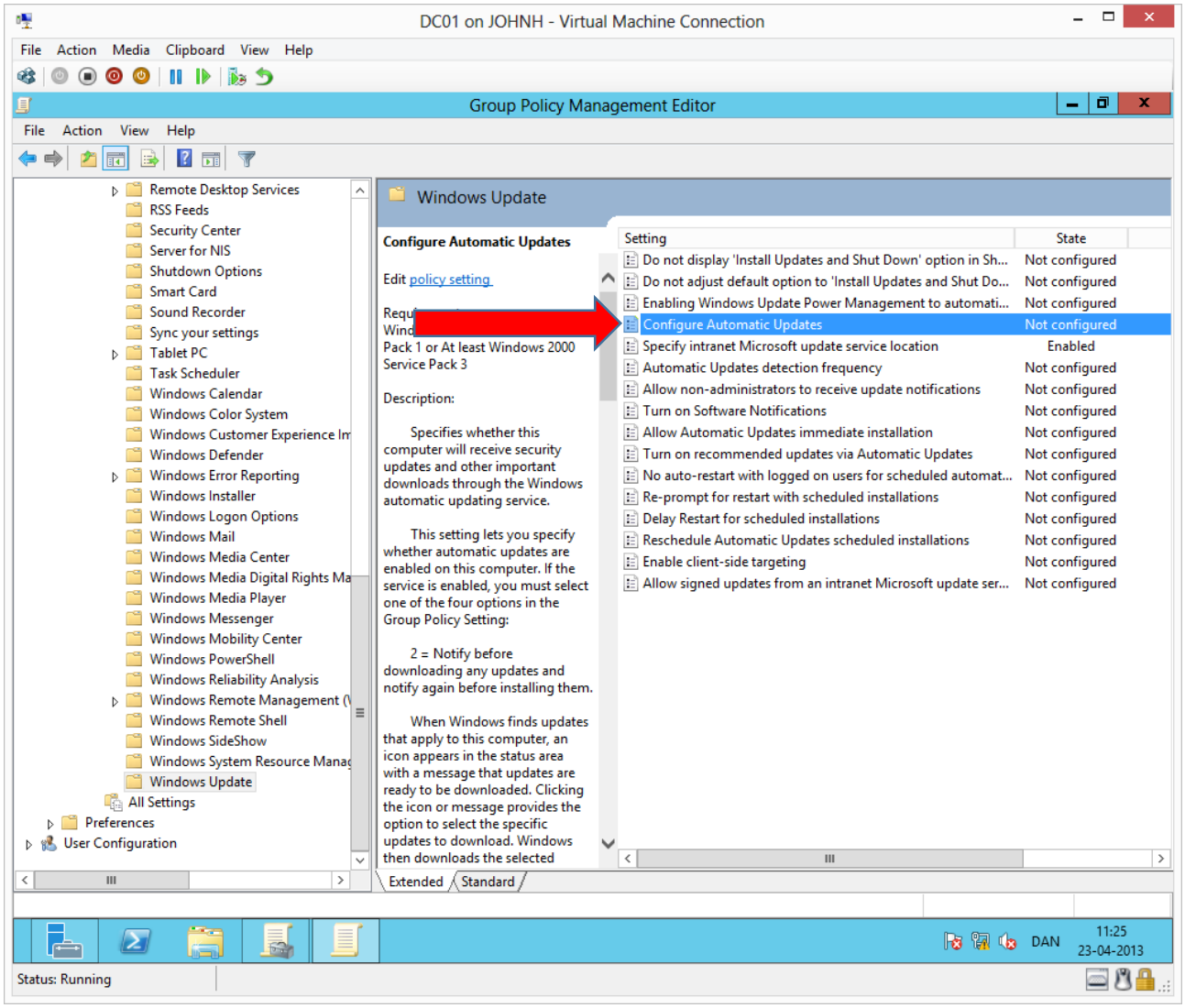
We change settings in the new policy by right cliking it →**Edit**



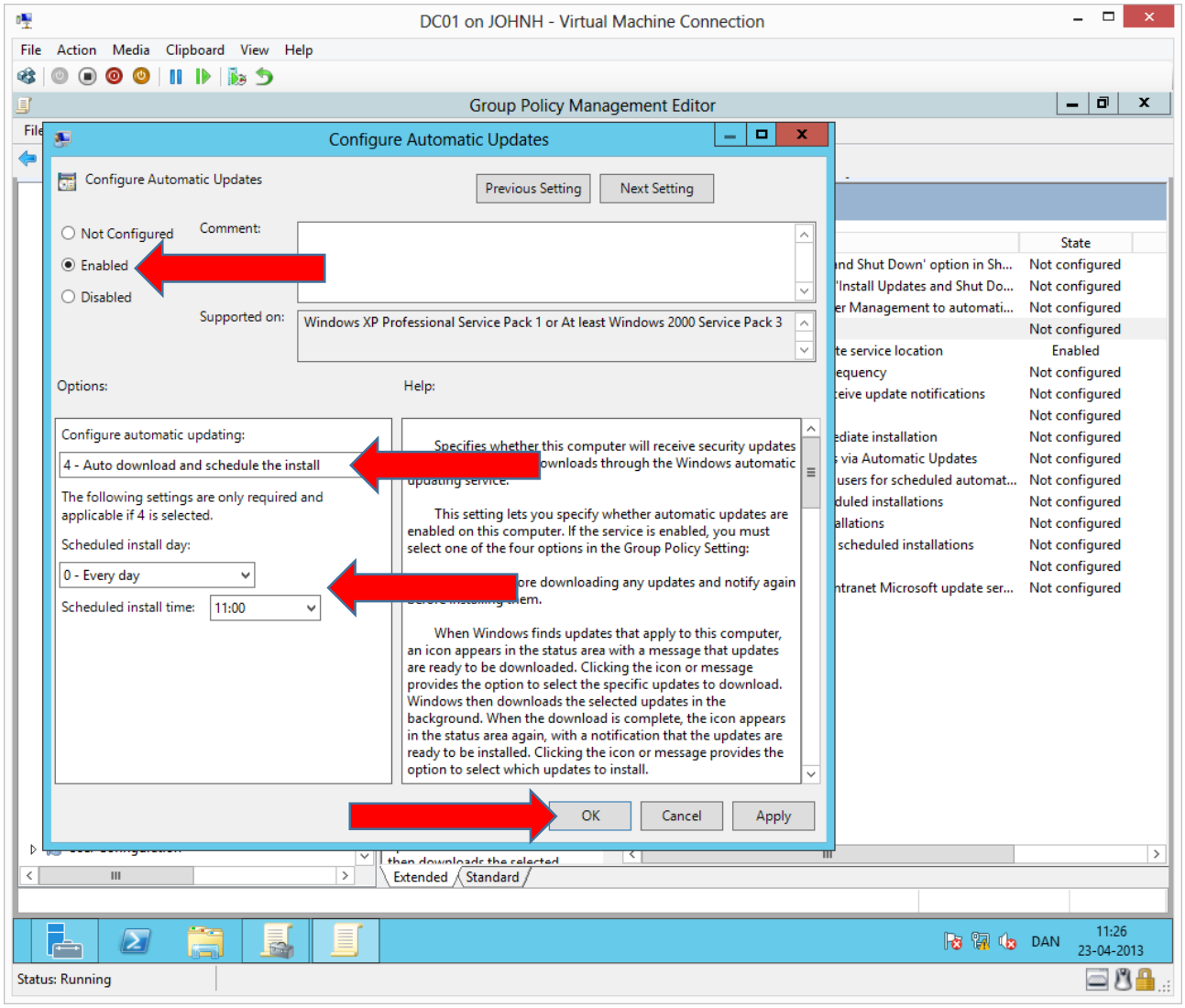
Navigate to Computer Configuration→Administrative Templates→Windows Components→Windows Update and double click **Specify intranet Microsoft Update service location**



Enable the setting and complete path + port number pointing at WSUS01.



Double click



Complete and click **OK** then close all open windows on DC01.

Notice. We just created a GPO on the highest level in our domain. Settings in this GPO will apply to **all** users, workstations, member servers and domain controllers in our domain. We have just configured member servers and domain controllers to install Microsoft Updates, which per default automatically will restart the machine, as needed. In a production environment, you should test updates first and should be very careful about which servers you let update and restart automatically. We do this in our test environment to have some machines to manage in WSUS. Our test users do not care about service downtime.

Verify WSUS configuration

We will now verify if Klient01 is managed by our WSUS settings.

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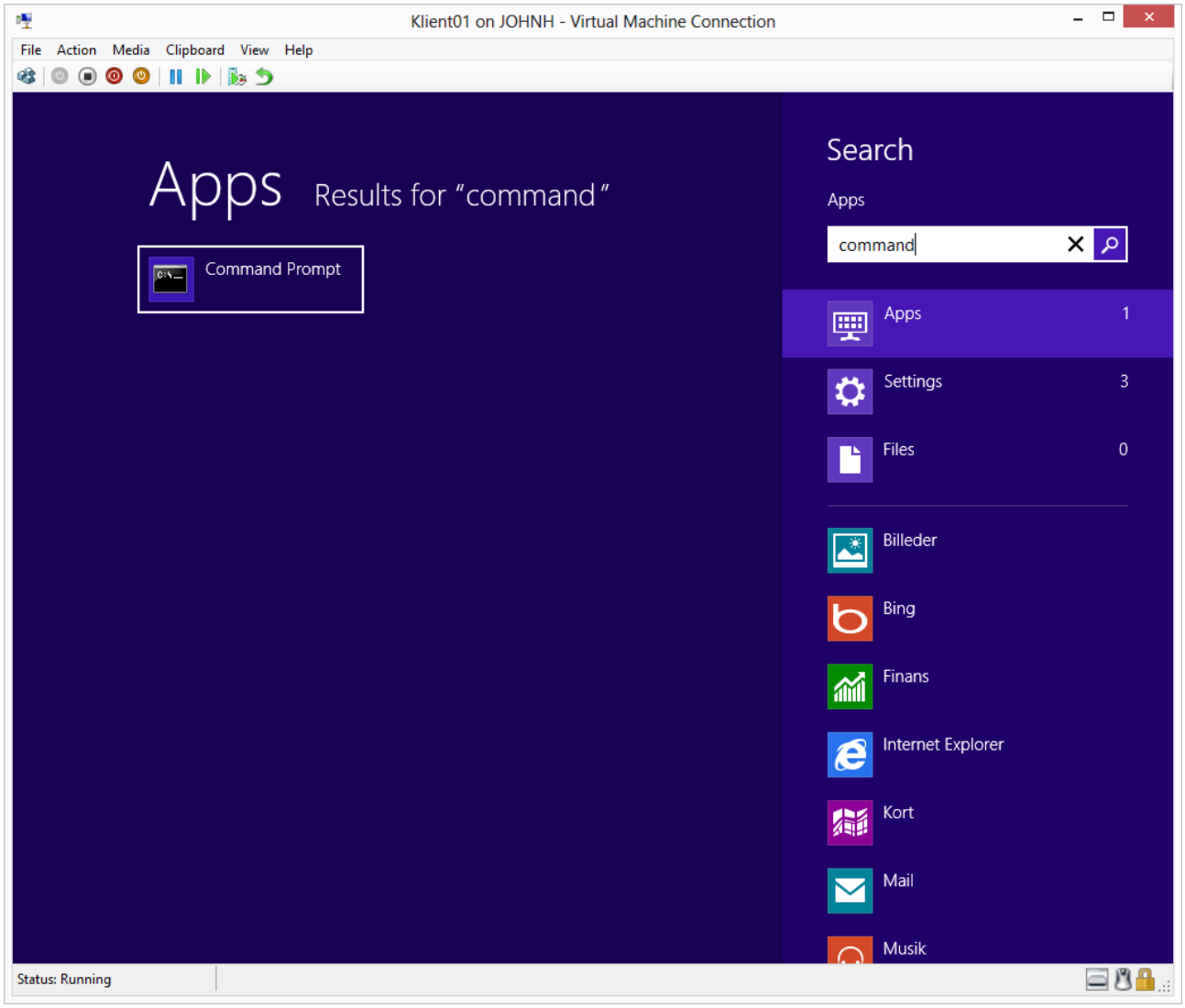
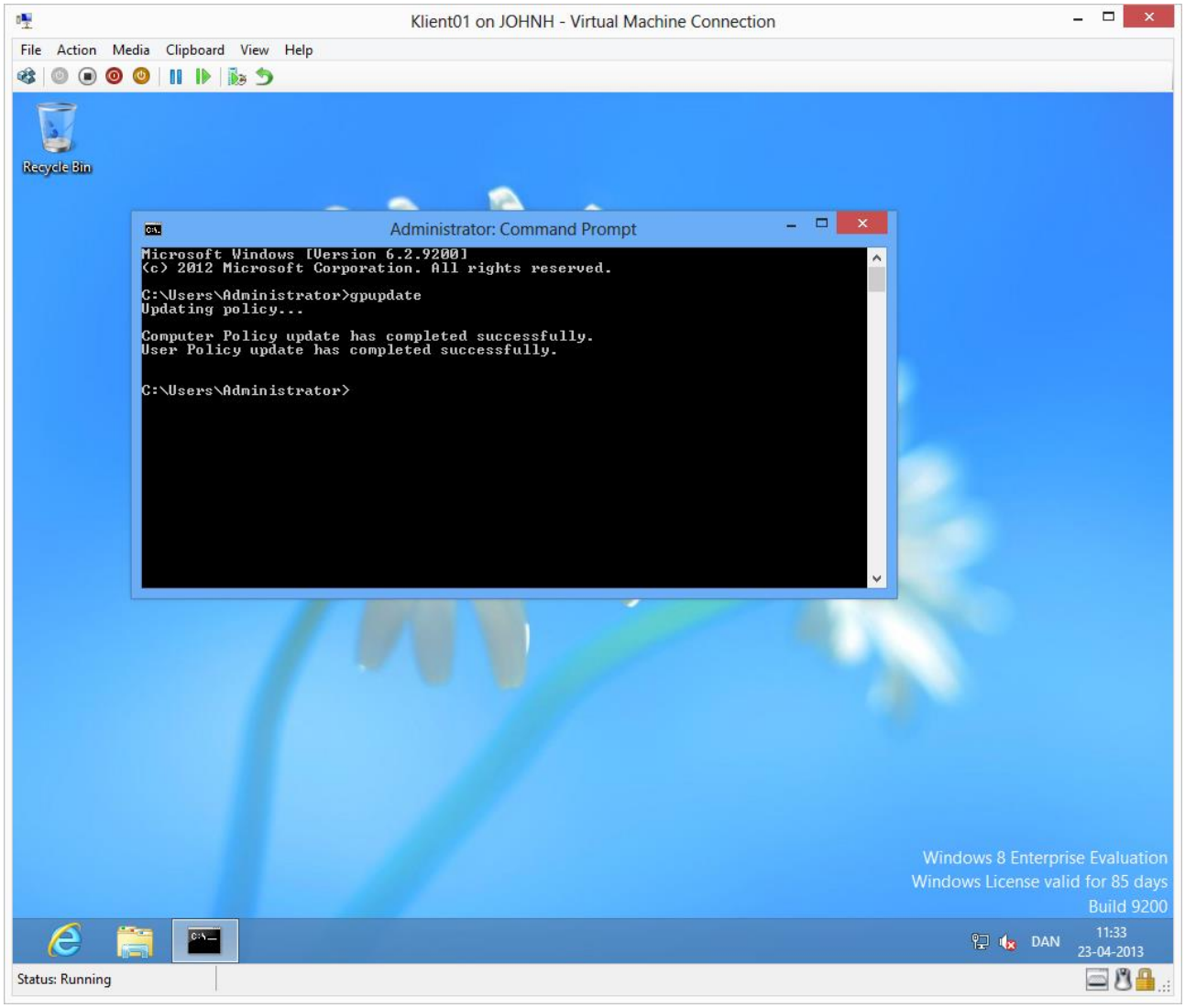
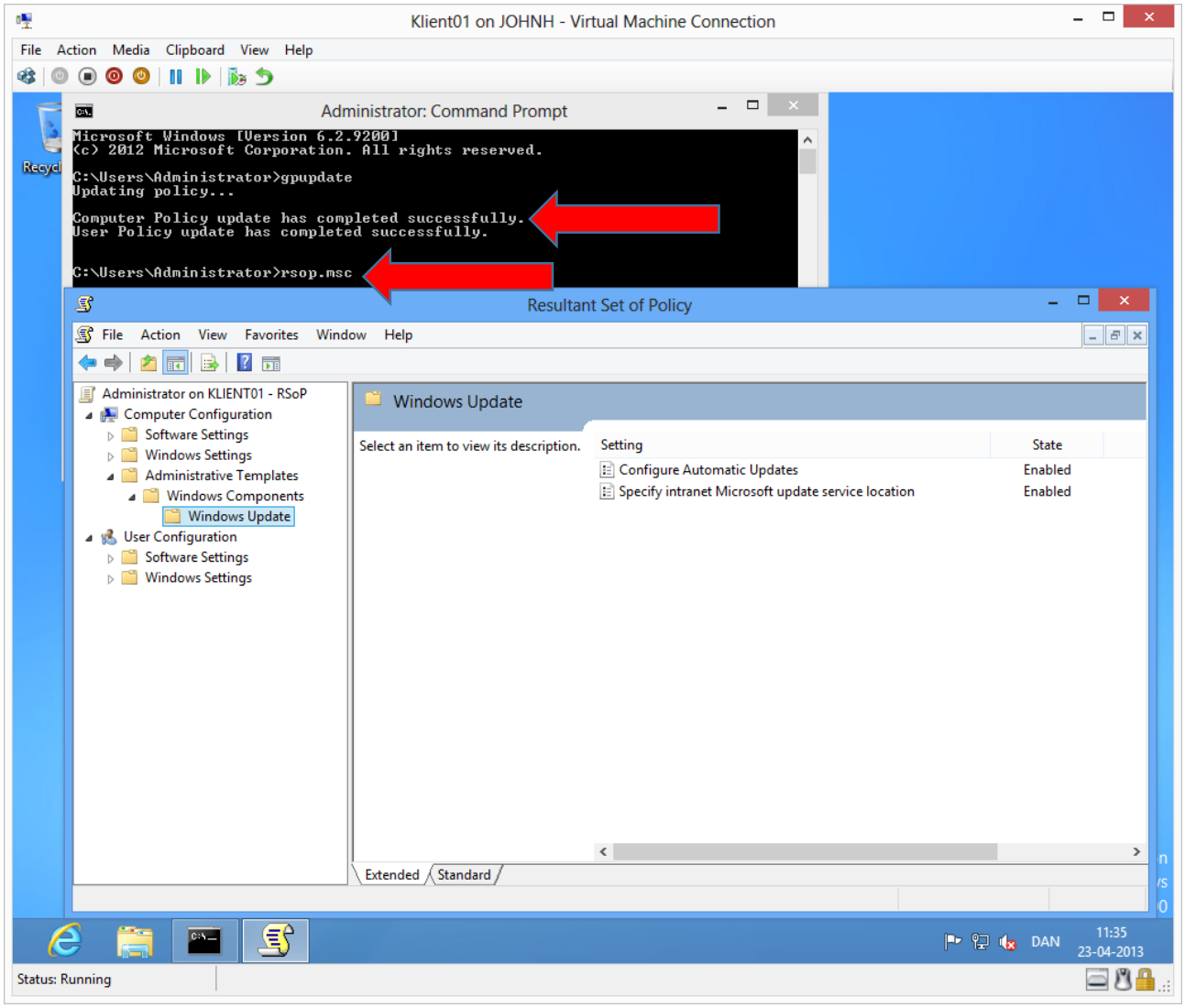


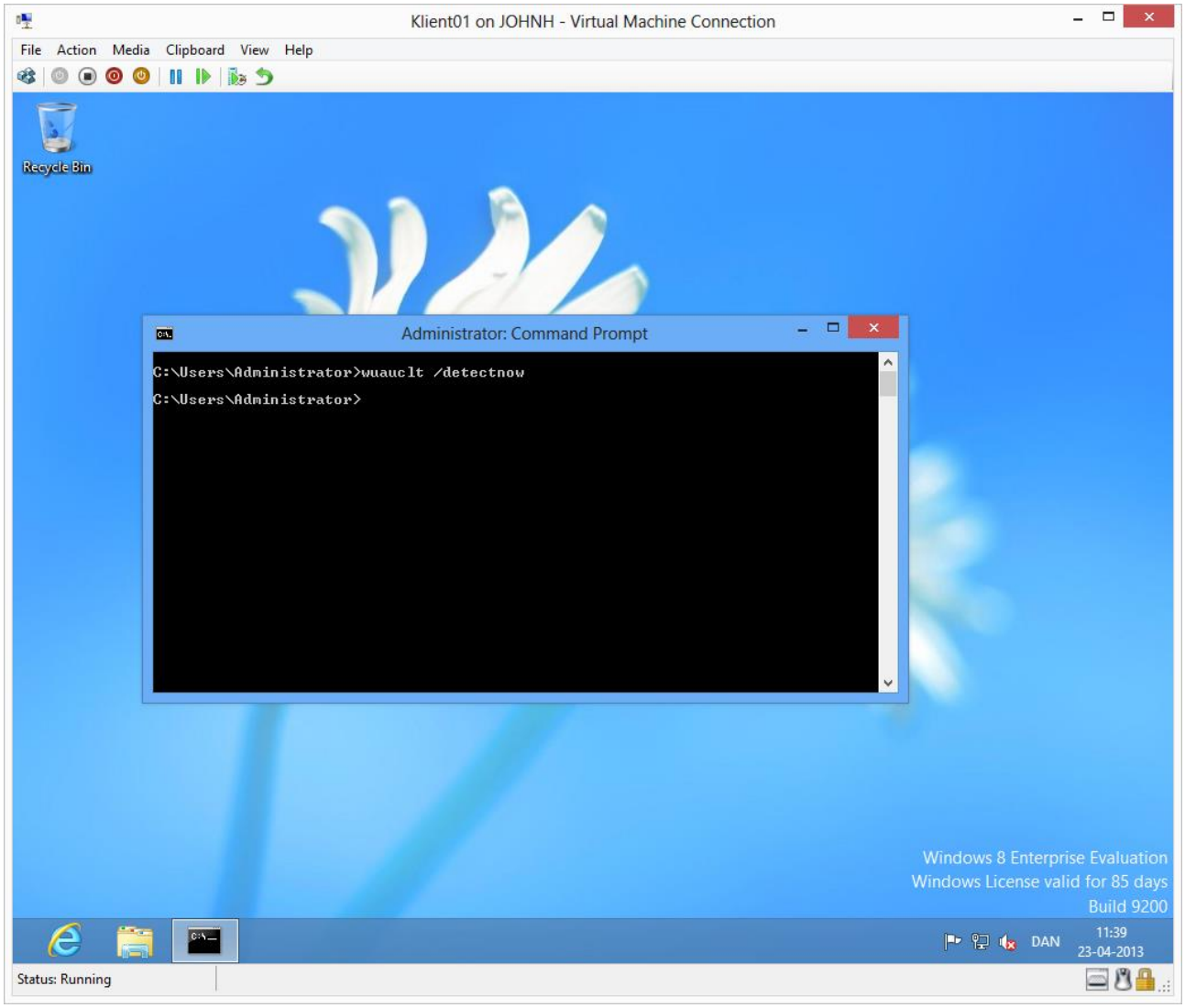
Press the **Windows key** and type **command** or **cmd**



Gpupdate forces Klient01 to look for new GPO'er and/or settings.



After the Computer Policy update has completed, we can check if the settings have been applied on Klient01. This can be done by running **rsop.msc**, which looks in the local configuration on the machine. Here we can see that the two WSUS settings are applied.



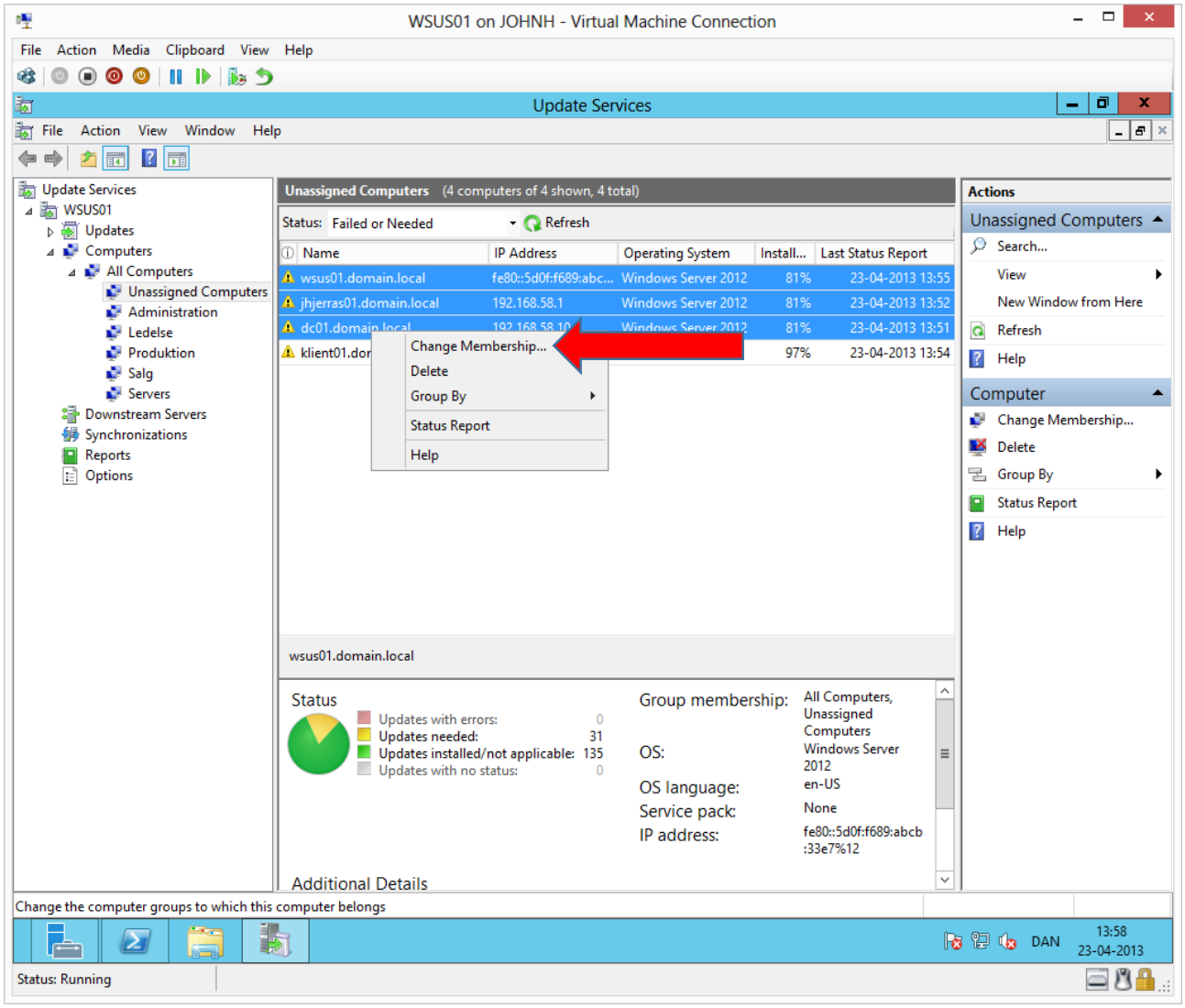
To force the computer to contact the WSUS server, you can type the above command. Notice that some time may pass before the computer is visible on the WSUS server.

Approving updates

On WSUS01, when the computers are visible in the WSUS snap in, we can add the computers to the groups, representing the various departments and approve updates on each of the groups.

Following Microsoft best practice, you should have a test computer group containing computers representing each department of the company with their various combinations of software the company uses. By approving and testing updates against the test group, you are able to find potential issues before the updates are applied to the rest of the company.

In our test environment we approve updates directly on the departments.



To add computers to groups, right click→**Change membership…**

Do this for all servers, even if it does not look like the above image.

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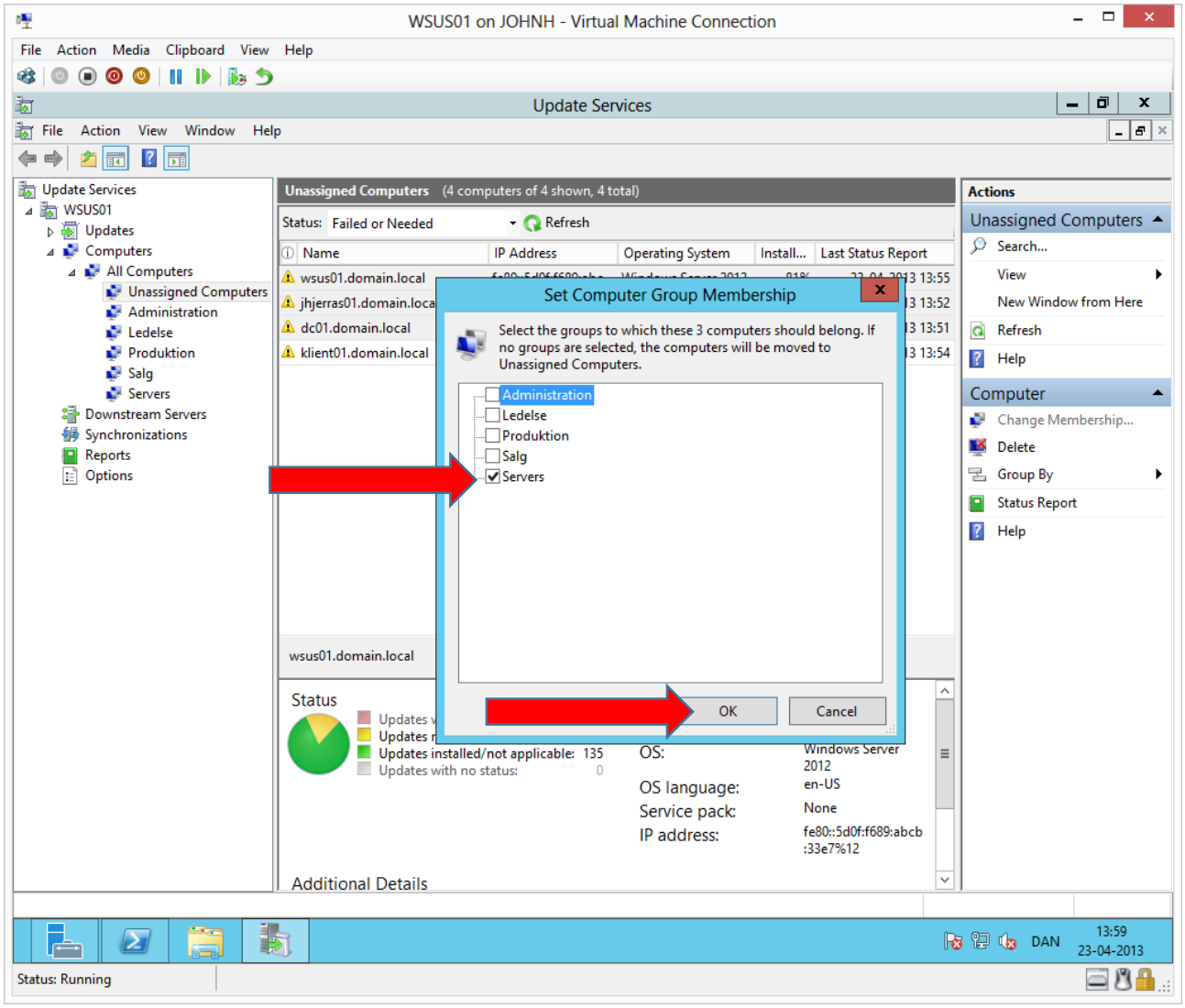

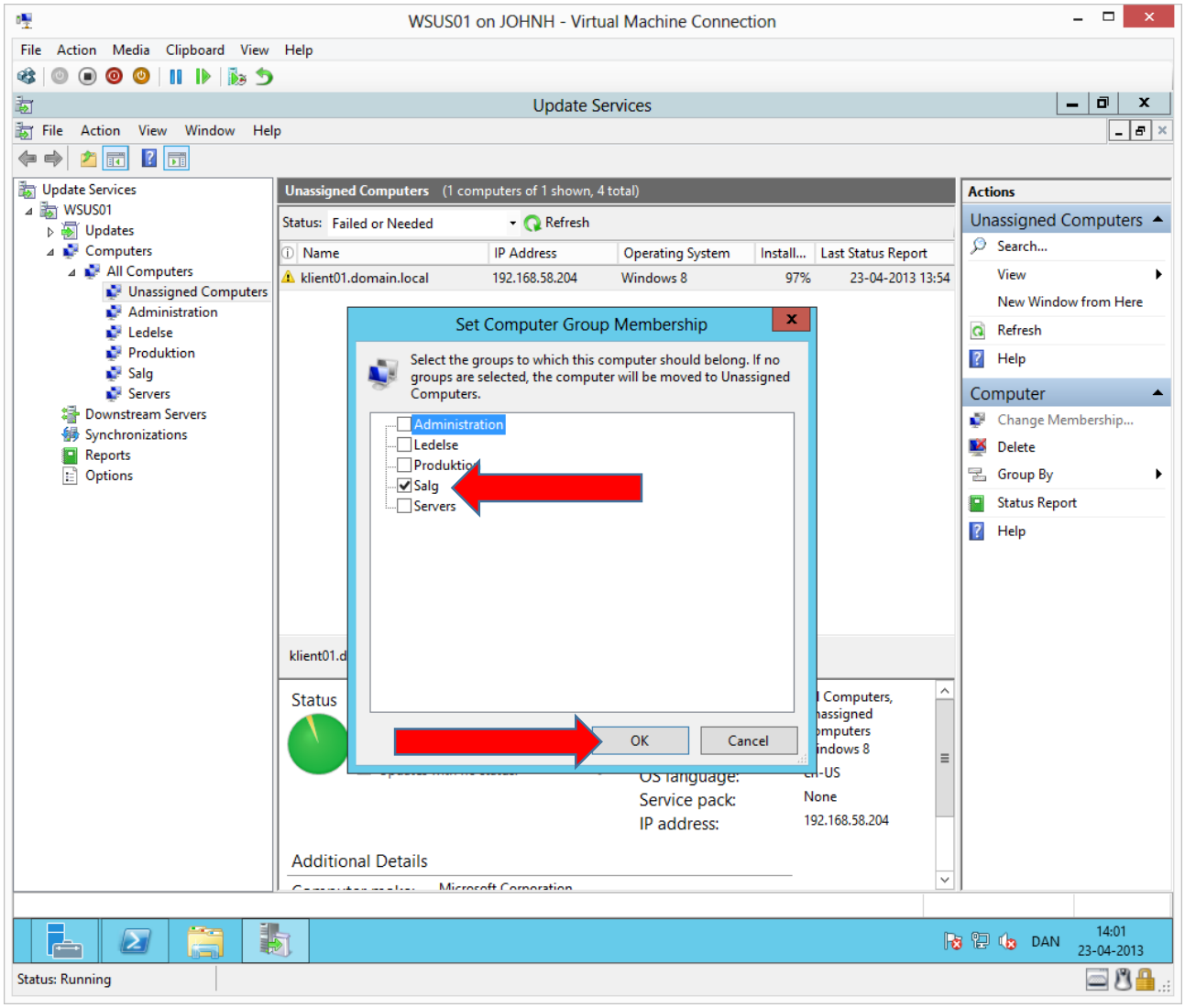

Here Klient01 is added to the sales (salg) group.

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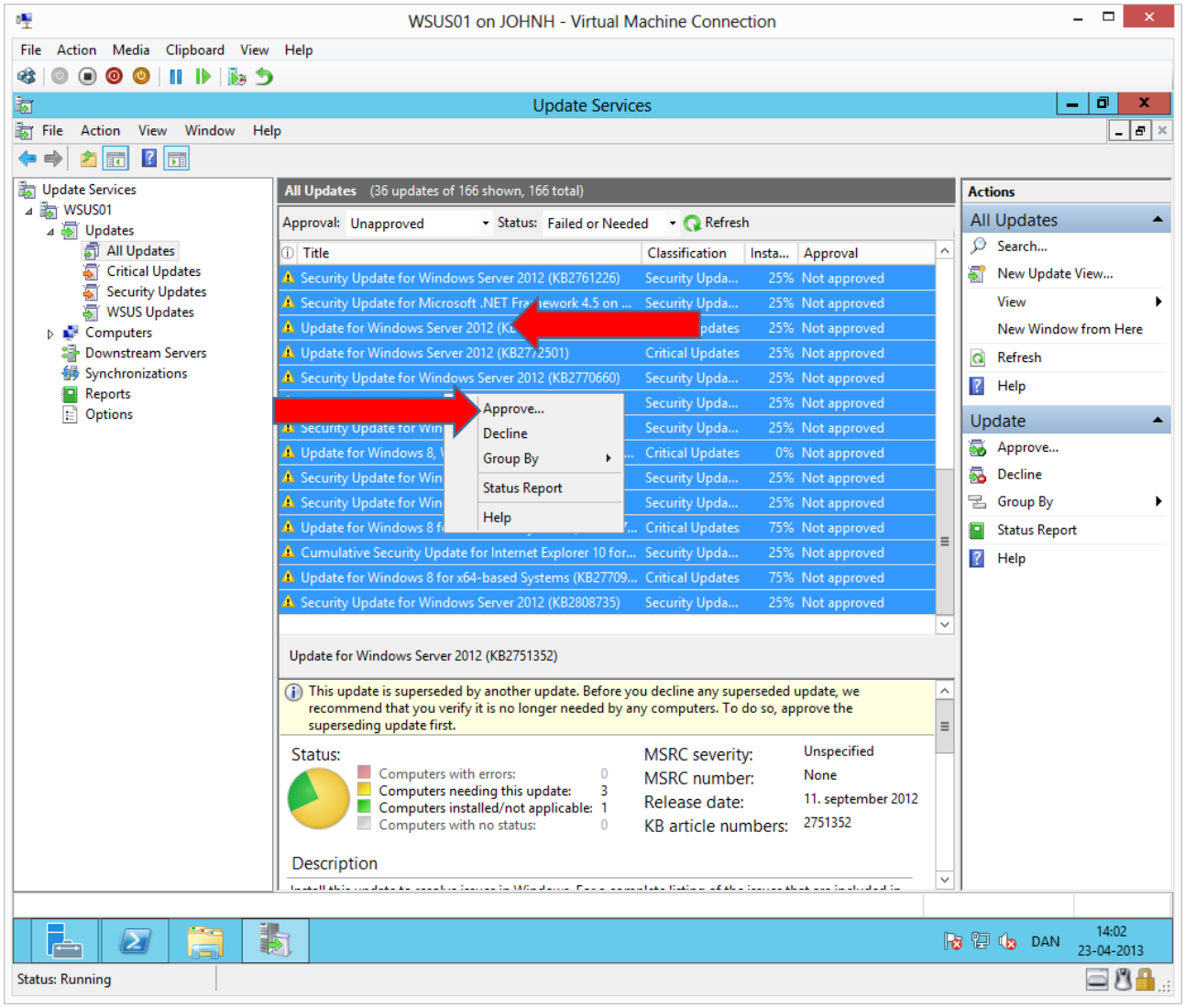
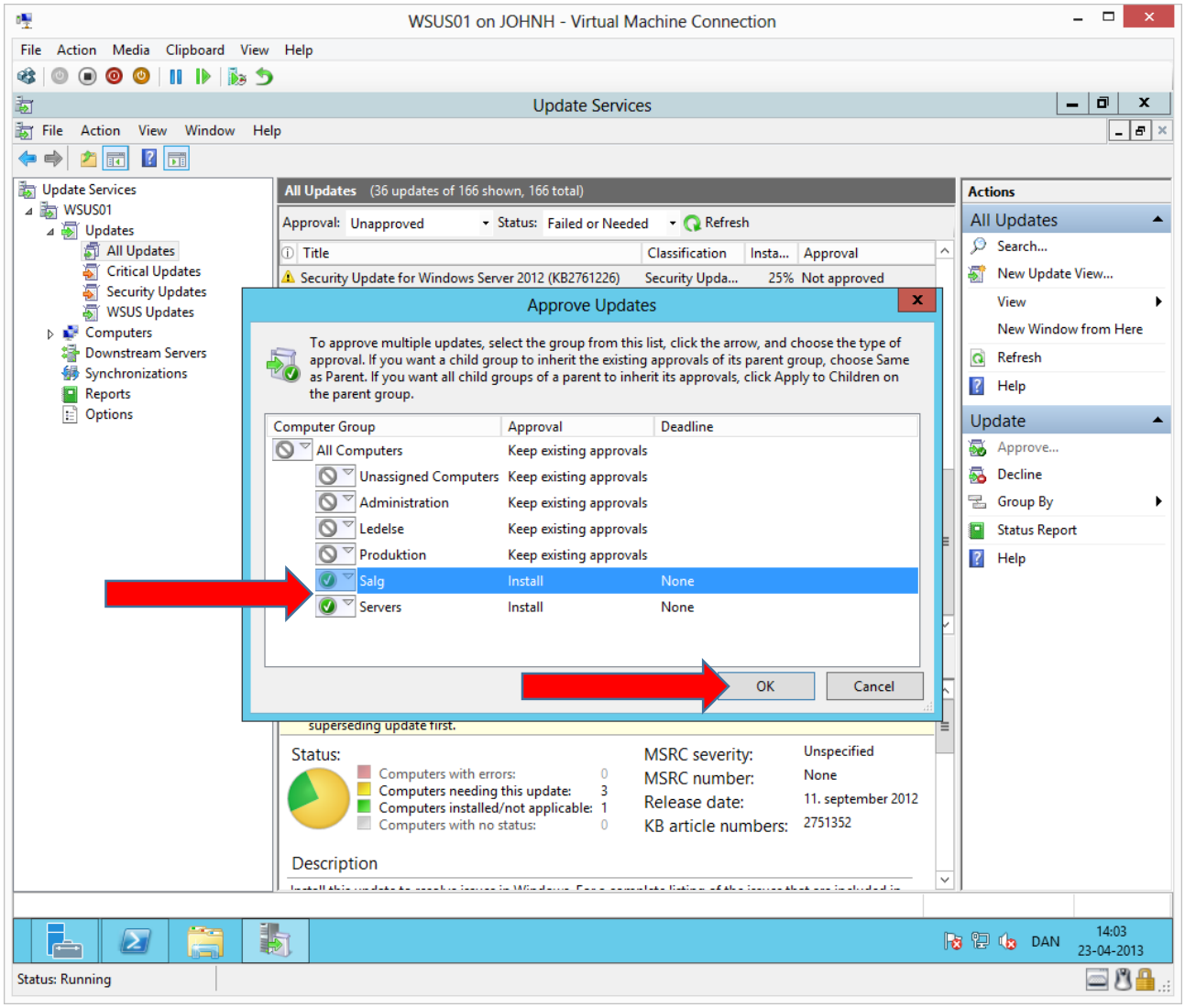


To approve updates against a computer group, mark all needed updates, right click one →**Approve…**



Install the updates for the desired groups. When new machines are joined a computer group, they will automatically install already approved updates.

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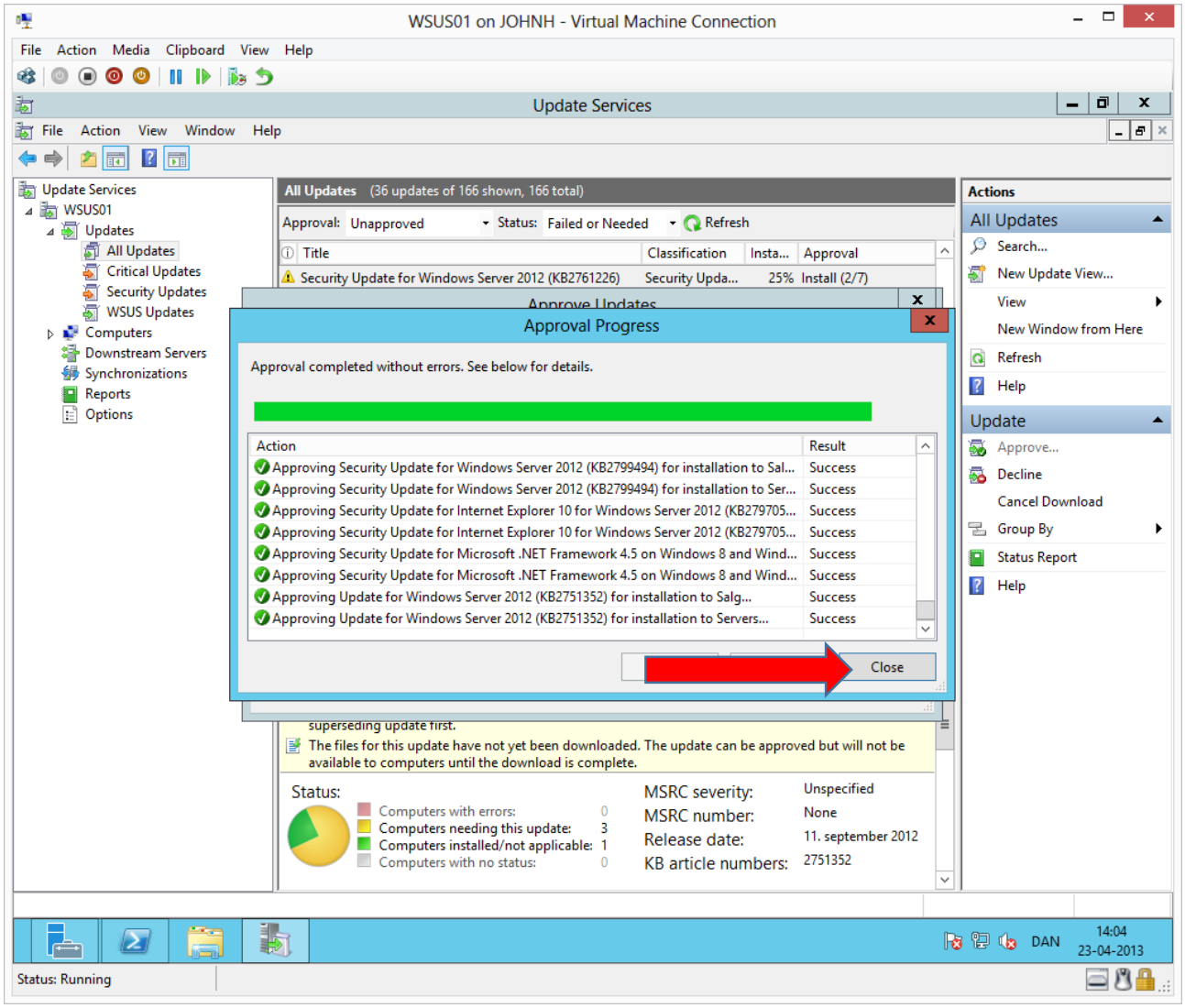

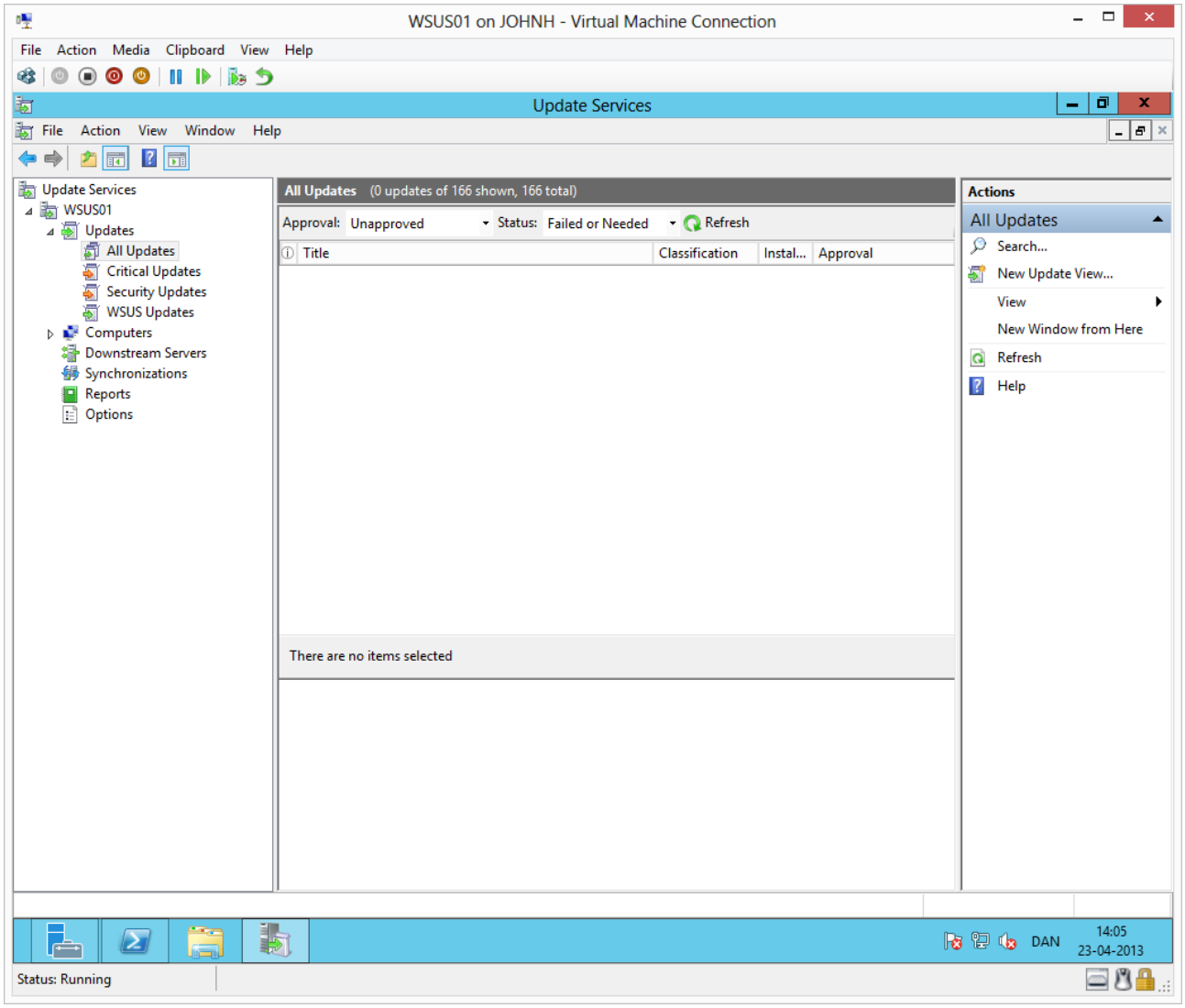

The list of missing updates is now empty until new updates are available from Microsoft or until new machines that are missing updates, contacts the WSUS server.

Computers that have been approved for updates will install the updates according to the schedule we made in our GPO (11:00 O'clock every day)