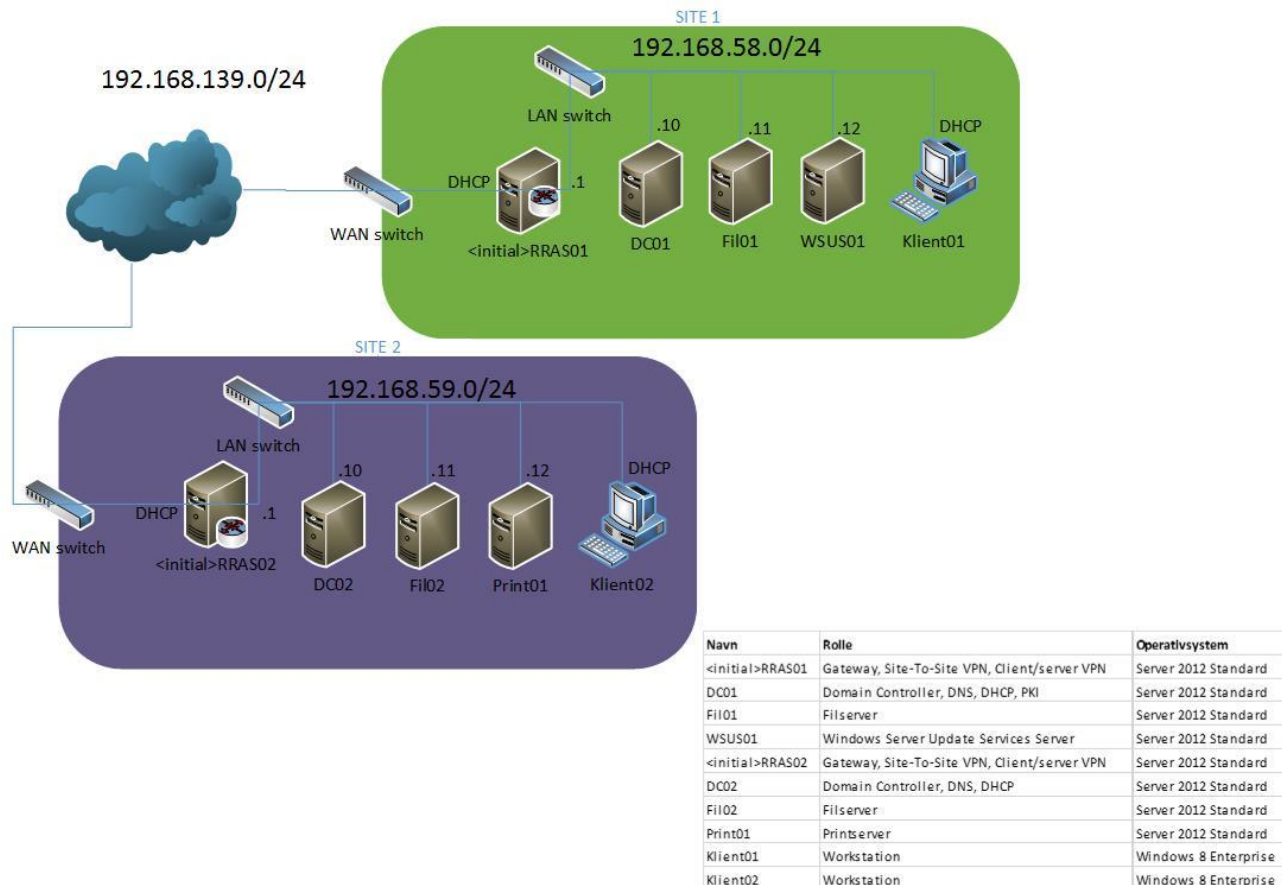


## Installing and configuring DHCP on DC01



In this guide we will install and configure the DHCP service on DC01 in site 1. The server will only offer DHCP services in site 1 as the gateway RRAS01 will block the DHCP broadcast packets.

We will configure that the DHCP clients in site 1 automatically get an IP address in the site subnet. We will also configure DHCP scope options, giving the DHCP clients a DNS server and a gateway so they can access and browse the internet.

As DC01 is also the local DNS server in site 1, we will use it as the primary DNS server and we will use DC02 as the secondary DNS server. A connection to the secondary DNS server will not be available before a site-to-site VPN connection has been established between RRAS01 and RRAS02.

## Installation and configuration of the DHCP role on DC01

DC01 on JOHNH - Virtual Machine Connection

Server Manager

Server Manager Dashboard

WELCOME TO SERVER MANAGER

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

ROLES AND SERVER GROUPS

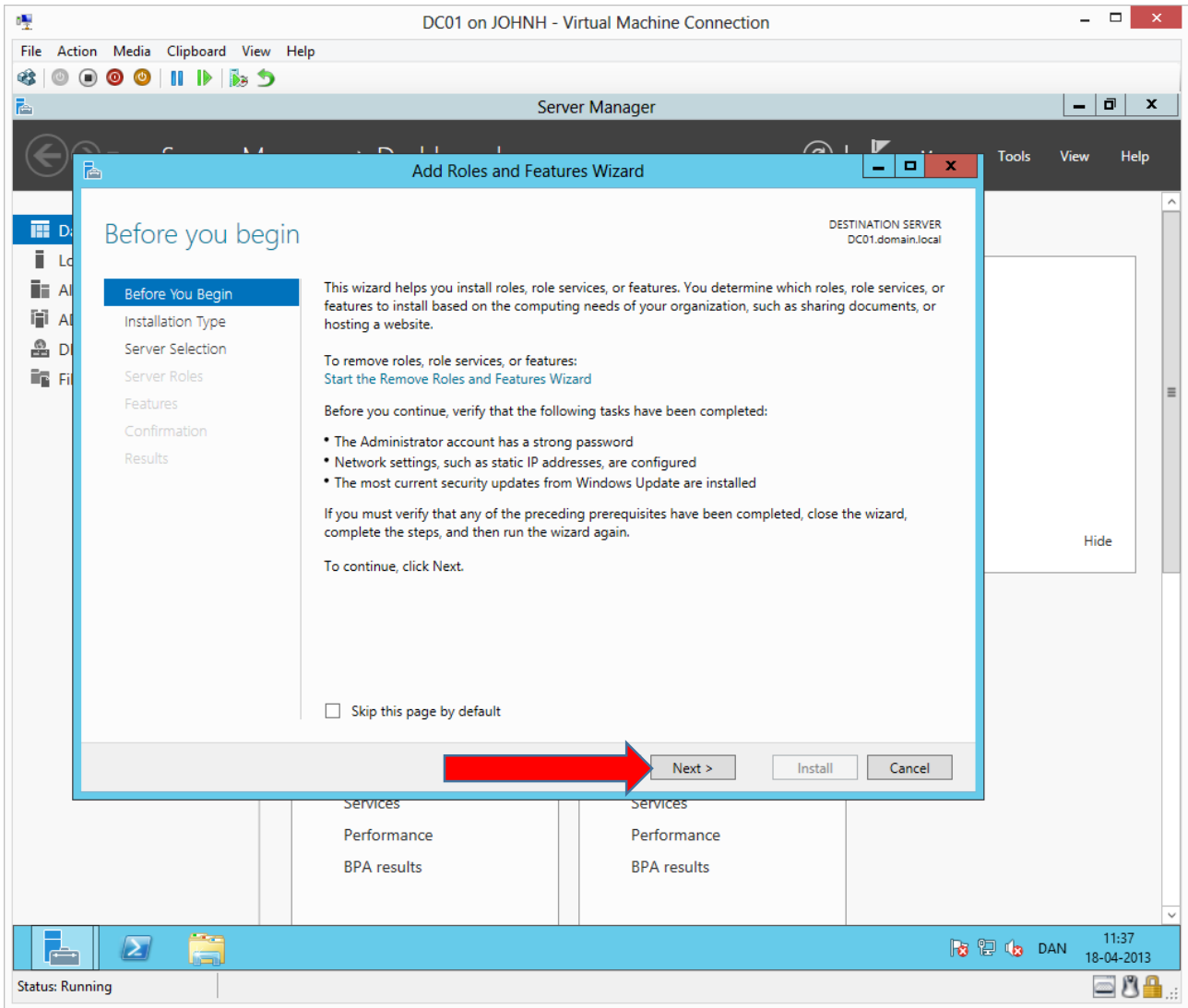
Roles: 3 | Server groups: 1 | Servers total: 1

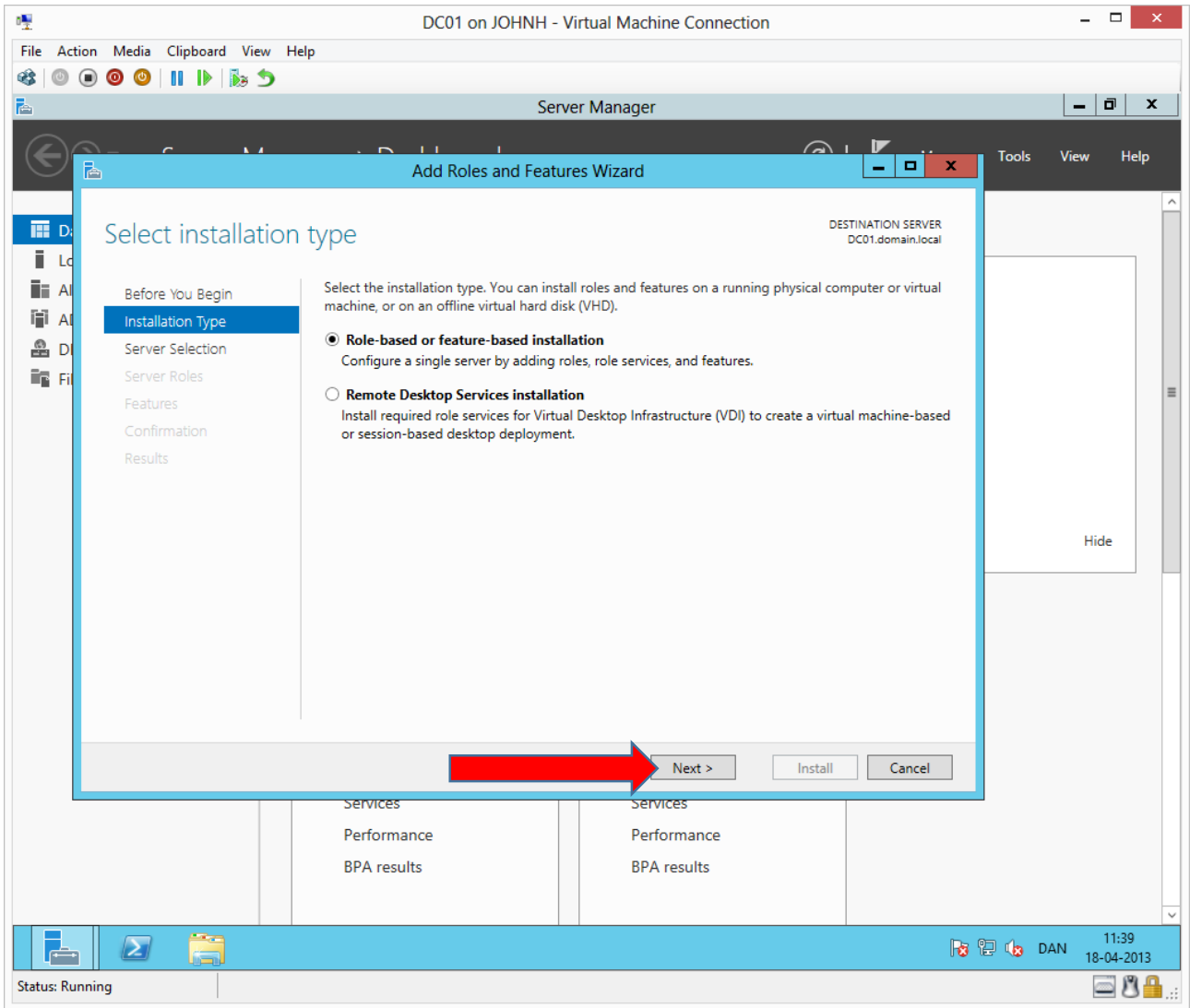
Role	Count
AD DS	1
DNS	1

File Explorer

Status: Running

11:33  
18-04-2013





The screenshot shows the 'Add Roles and Features Wizard' in Server Manager. The wizard is titled 'Add Roles and Features Wizard' and is currently at the 'Server Selection' step. The 'Destination Server' is 'DC01.domain.local'. The wizard prompts the user to 'Select a server or a virtual hard disk on which to install roles and features.' There are two radio buttons: 'Select a server from the server pool' (which is selected) and 'Select a virtual hard disk'. Below this, there is a 'Server Pool' section with a 'Filter' input field and a table of servers. The table has columns for 'Name', 'IP Address', and 'Operating System'. One server is listed: 'DC01.domain.local' with IP '192.168.58.10' and OS 'Microsoft Windows Server 2012 Standard Evaluation'. Below the table, it says '1 Computer(s) found'. A red arrow points to the 'Next >' button at the bottom of the wizard. The background shows the Server Manager interface with a sidebar on the left and a main pane on the right. The taskbar at the bottom shows the system tray with the date '18-04-2013' and time '11:39'.

File Action Media Clipboard View Help

Server Manager

Add Roles and Features Wizard

Select destination server

DESTINATION SERVER  
DC01.domain.local

Before You Begin  
Installation Type  
Server Selection  
Server Roles  
Features  
Confirmation  
Results

Select a server or a virtual hard disk on which to install roles and features.

Select a server from the server pool  
 Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
DC01.domain.local	192.168.58.10	Microsoft Windows Server 2012 Standard Evaluation

1 Computer(s) found

This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

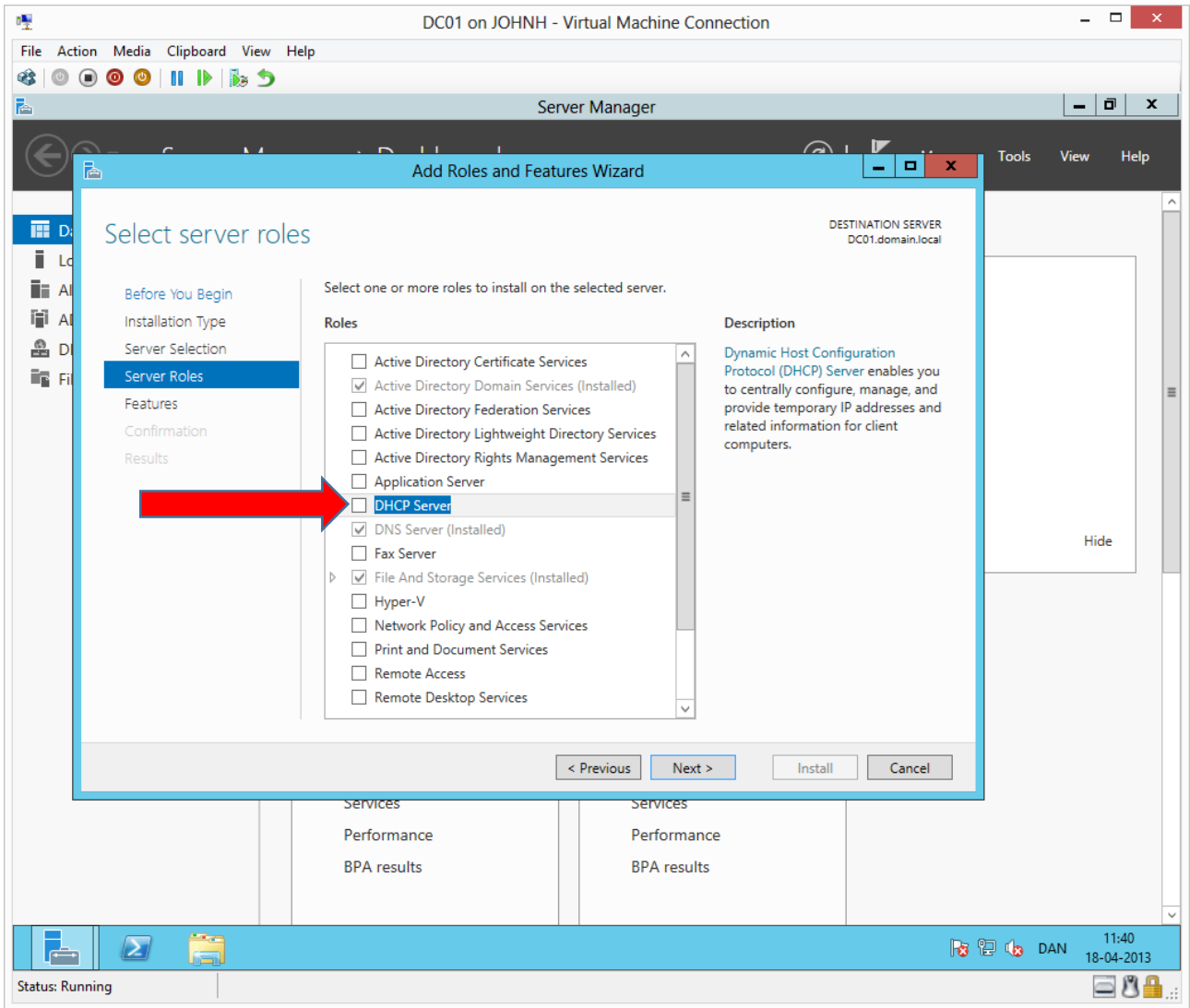
Next > Install Cancel

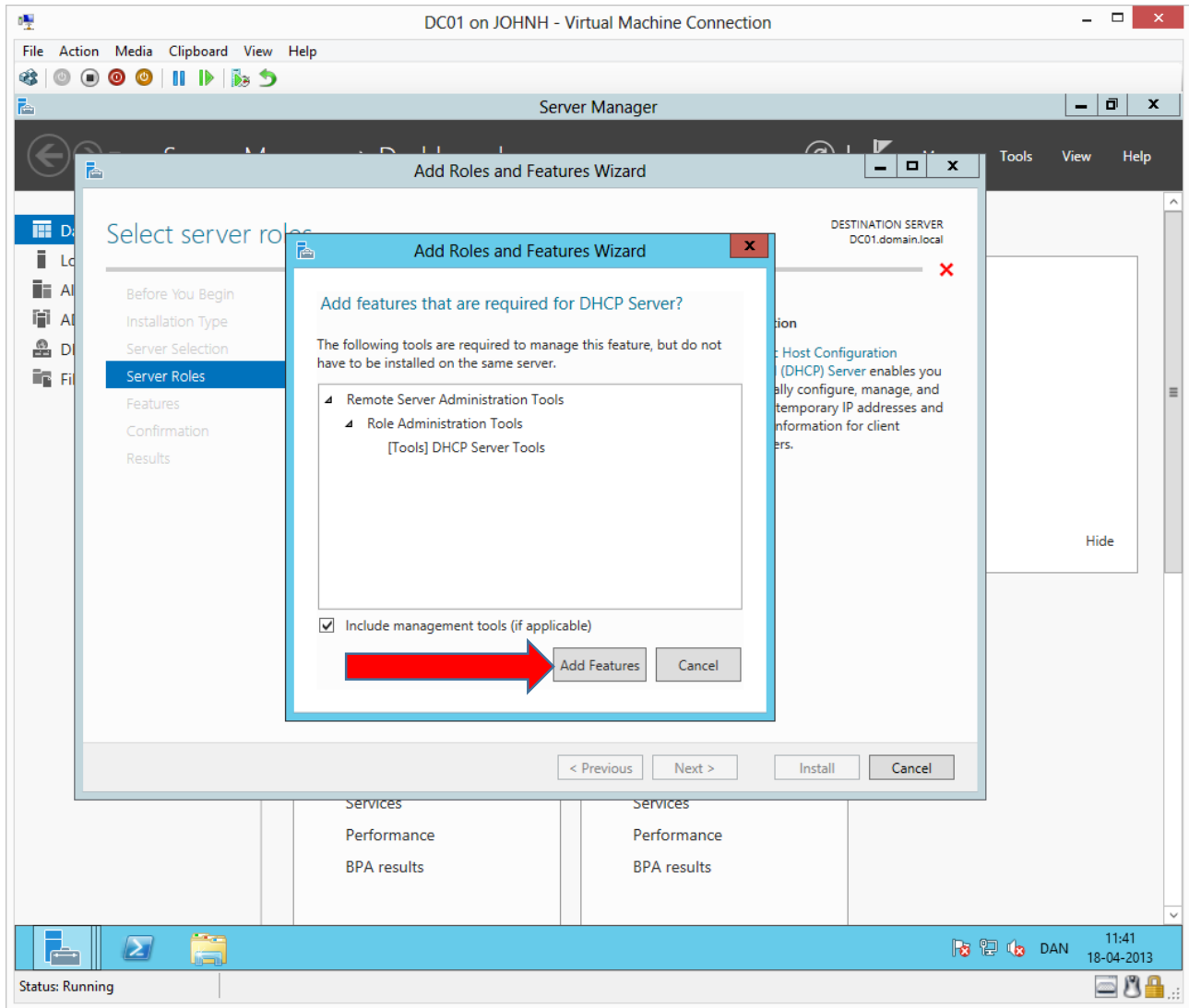
Services Performance BPA results

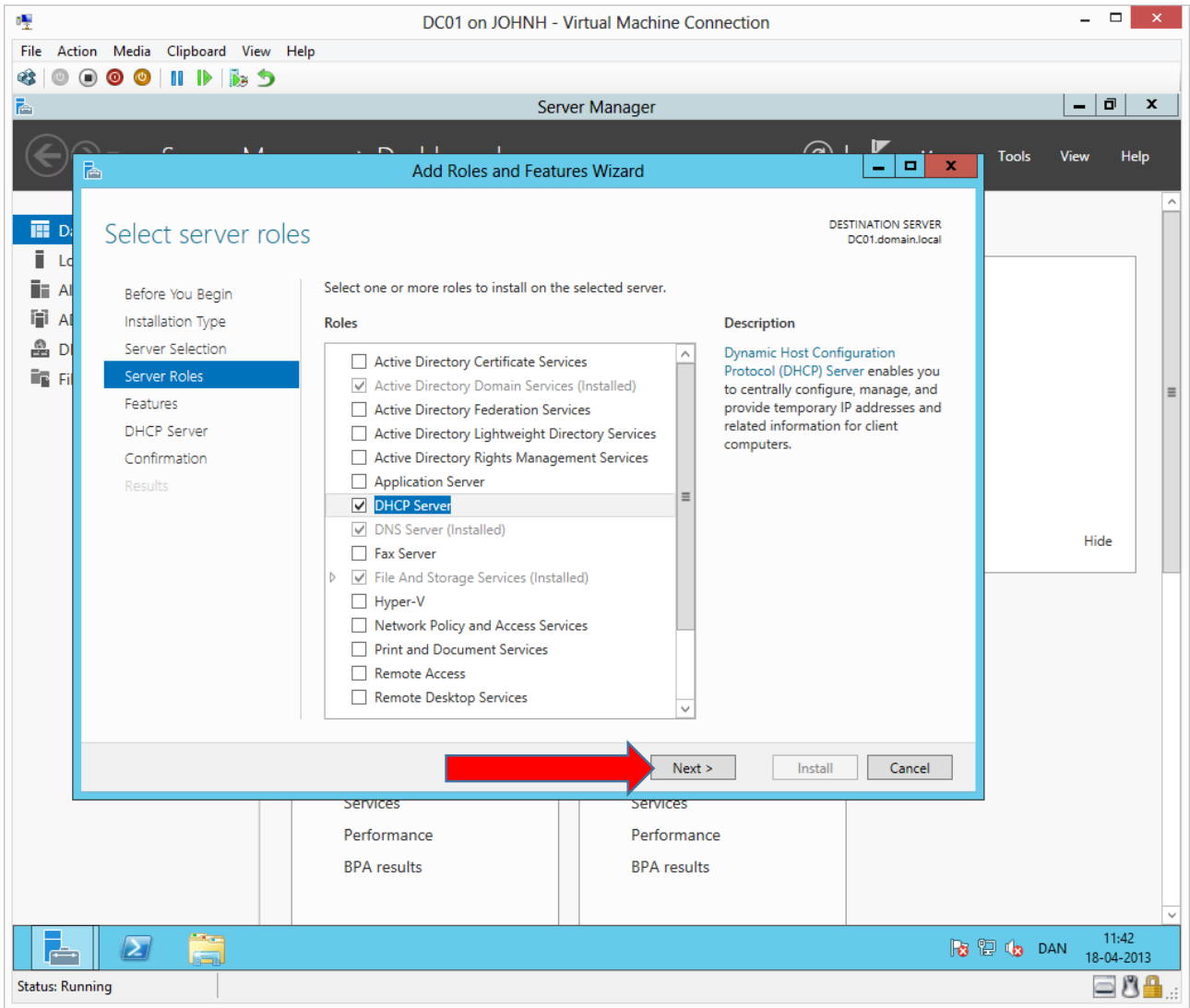
Services Performance BPA results

Status: Running

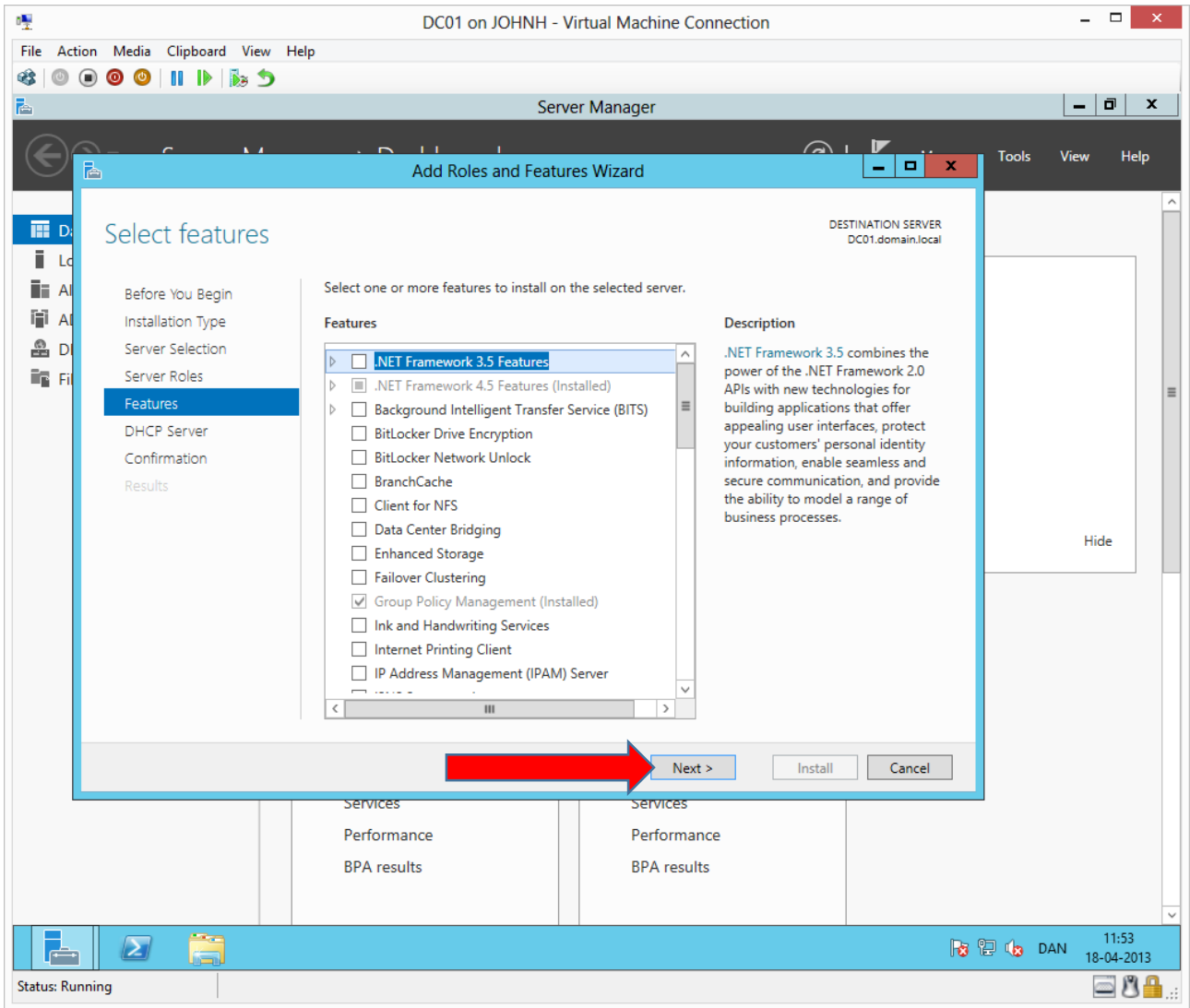
11:39  
18-04-2013

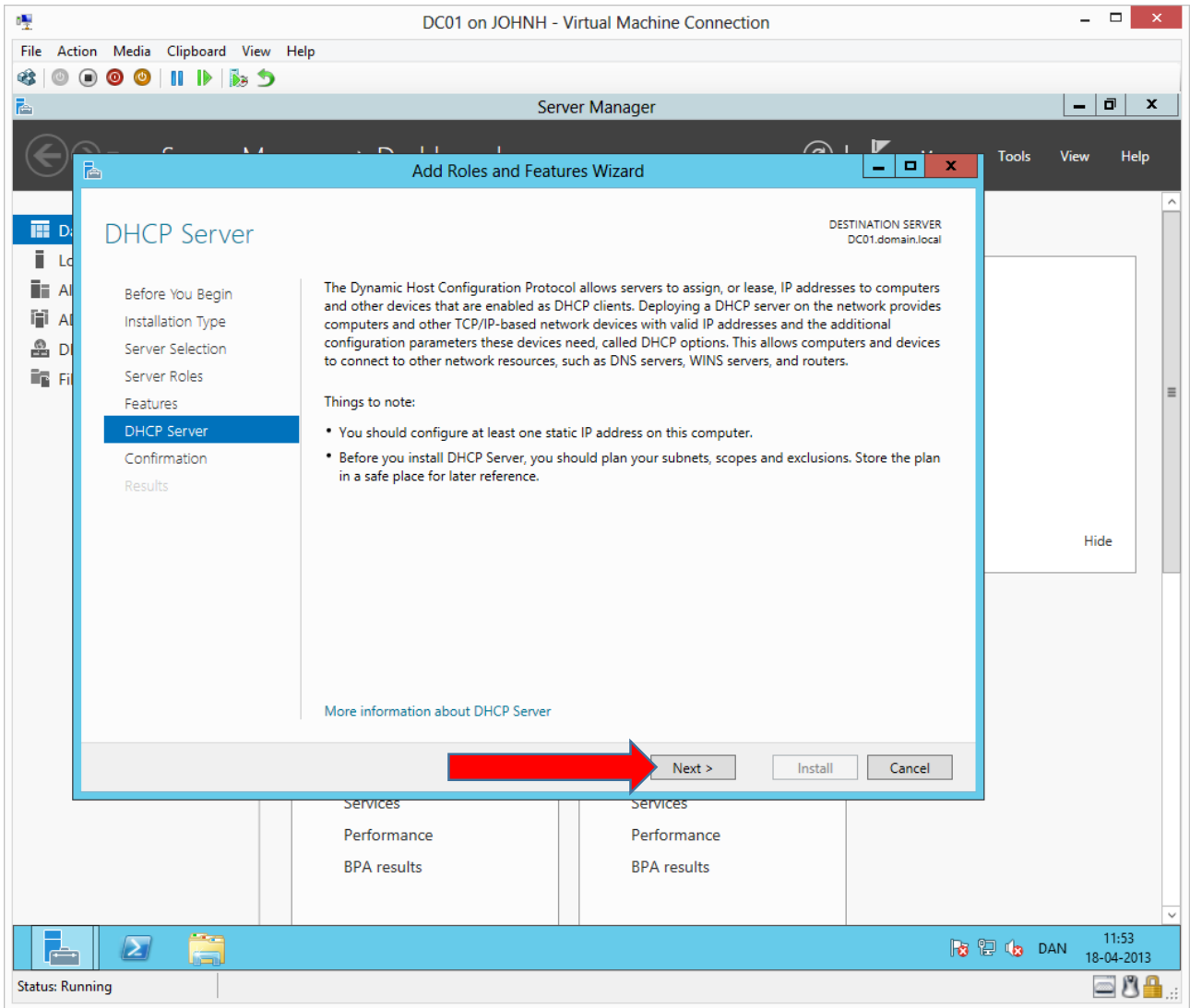


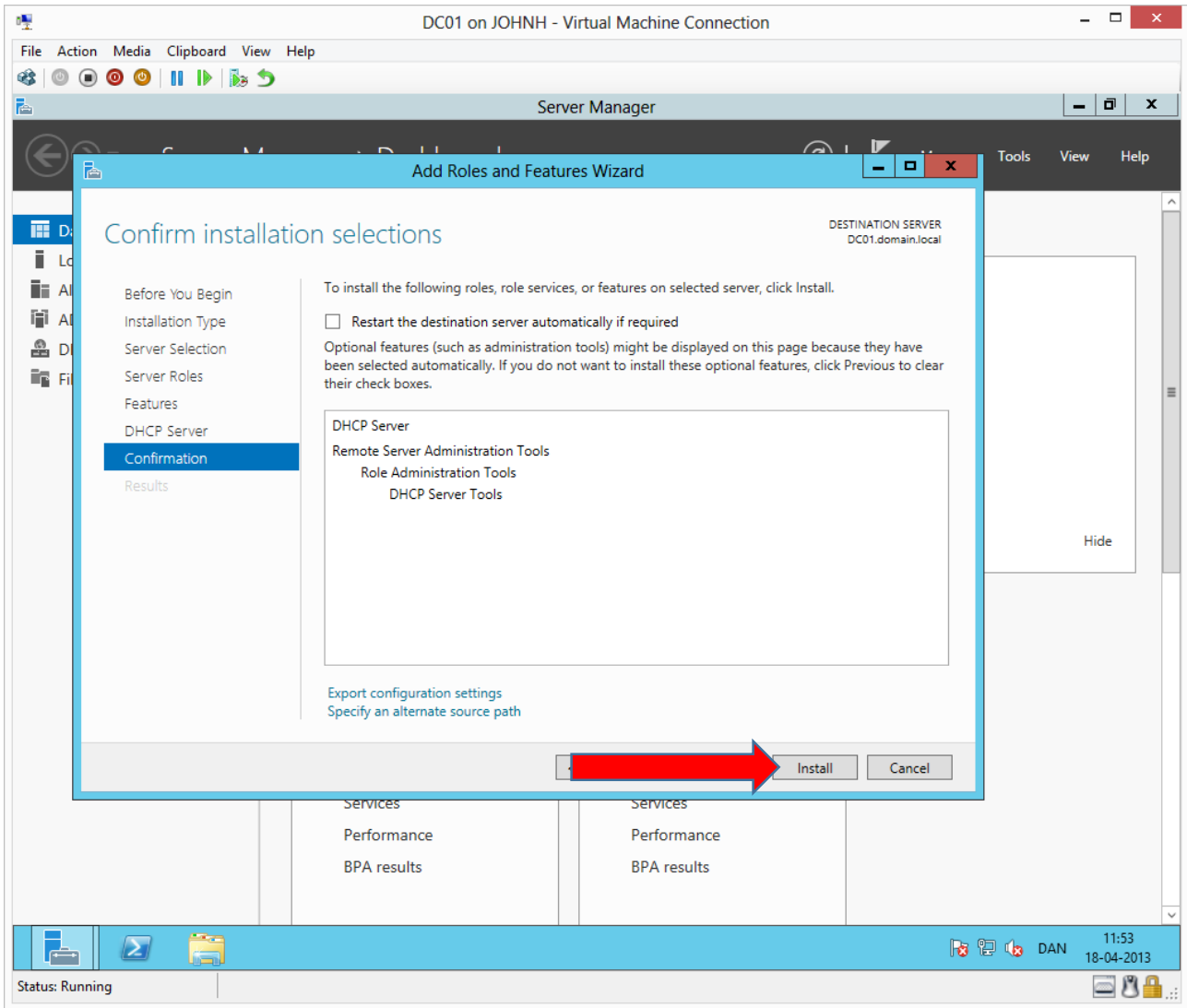


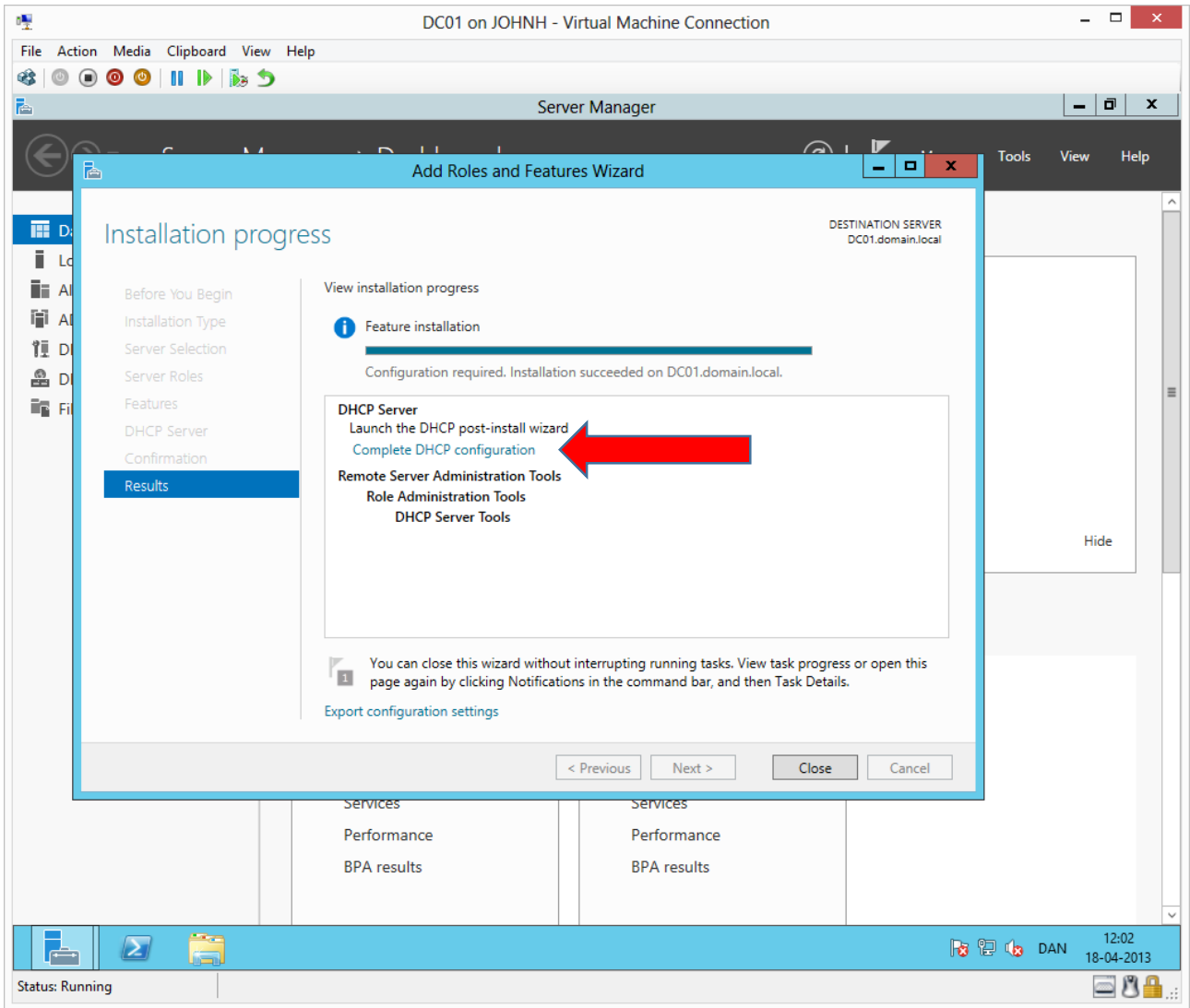


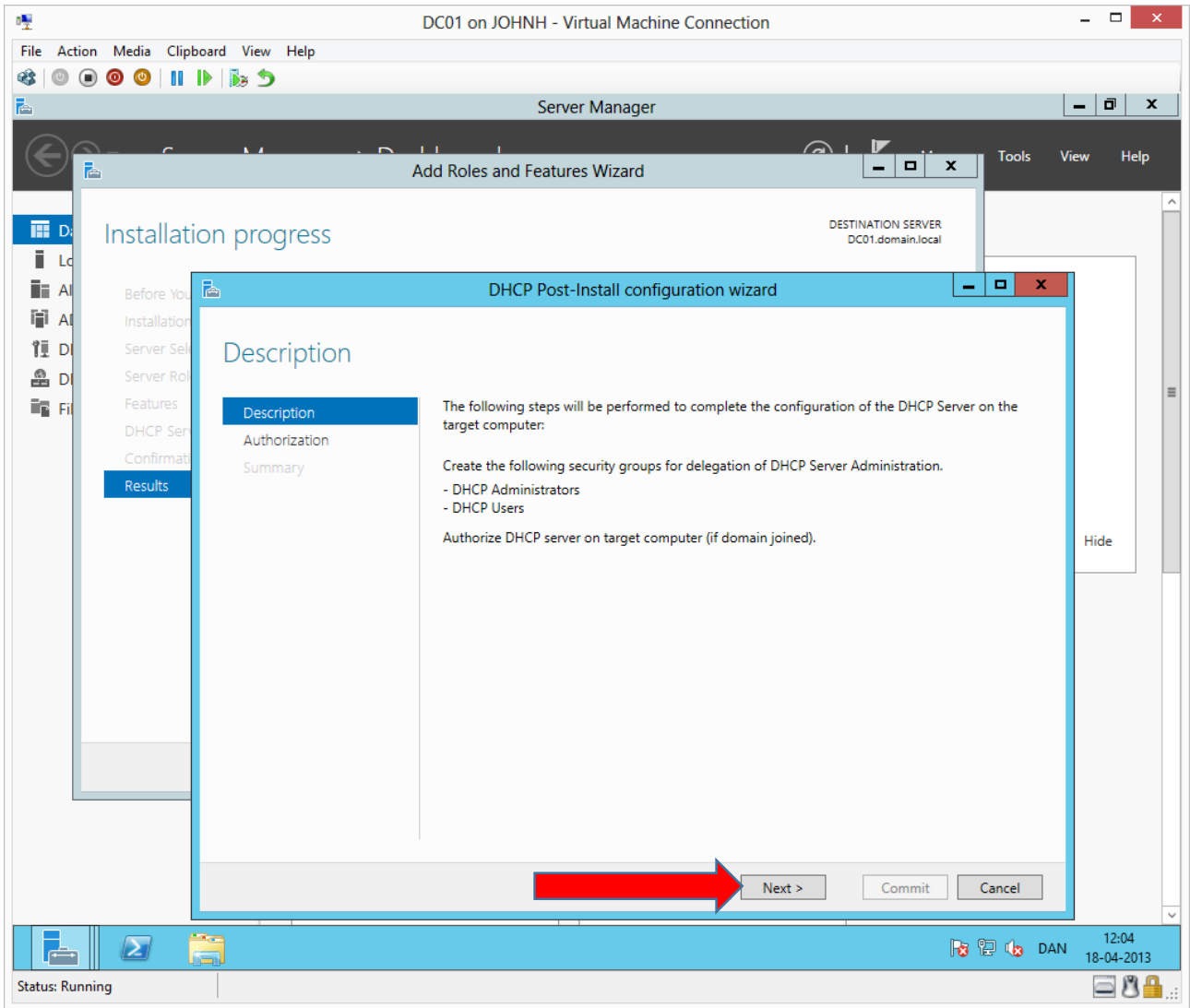


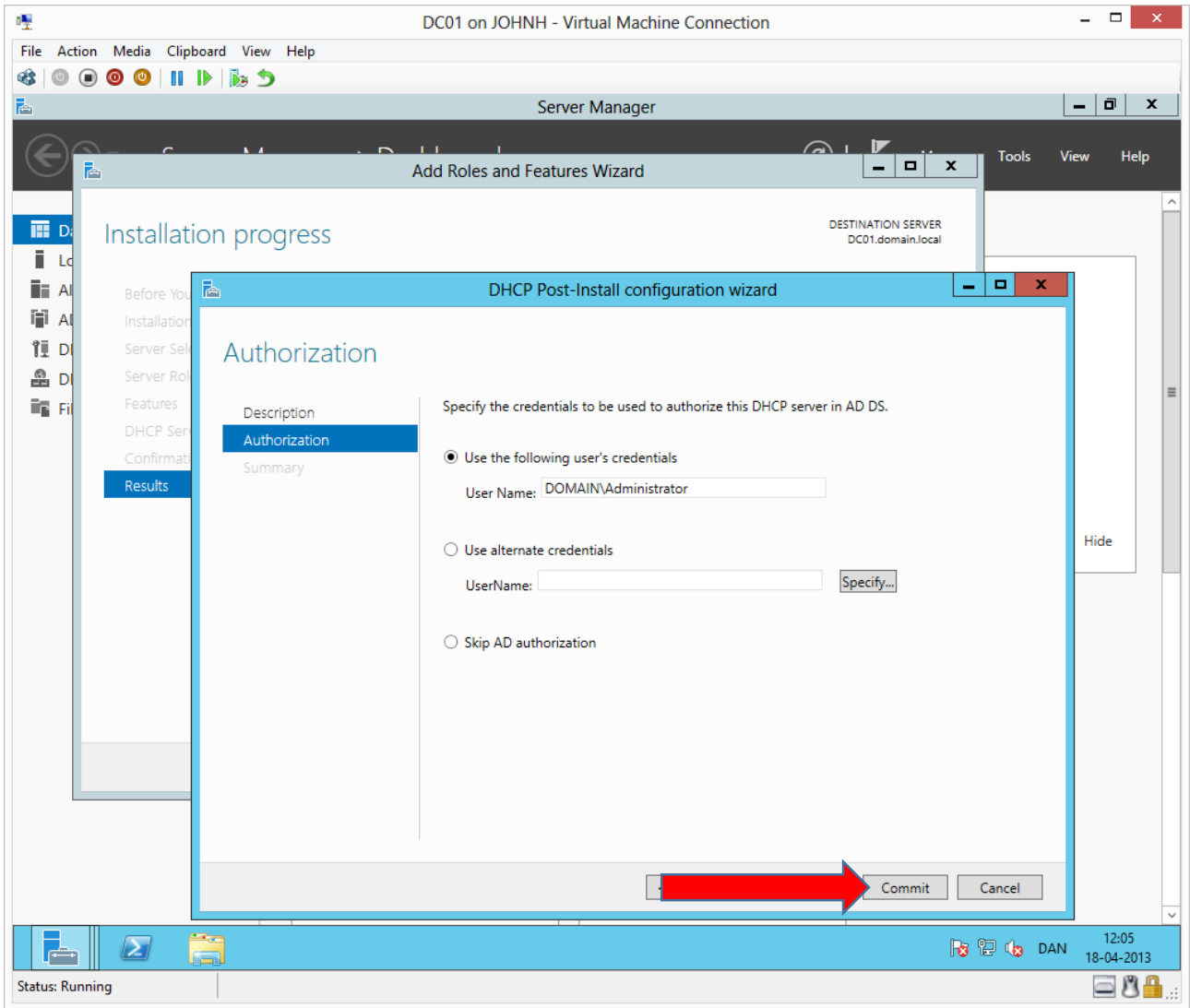


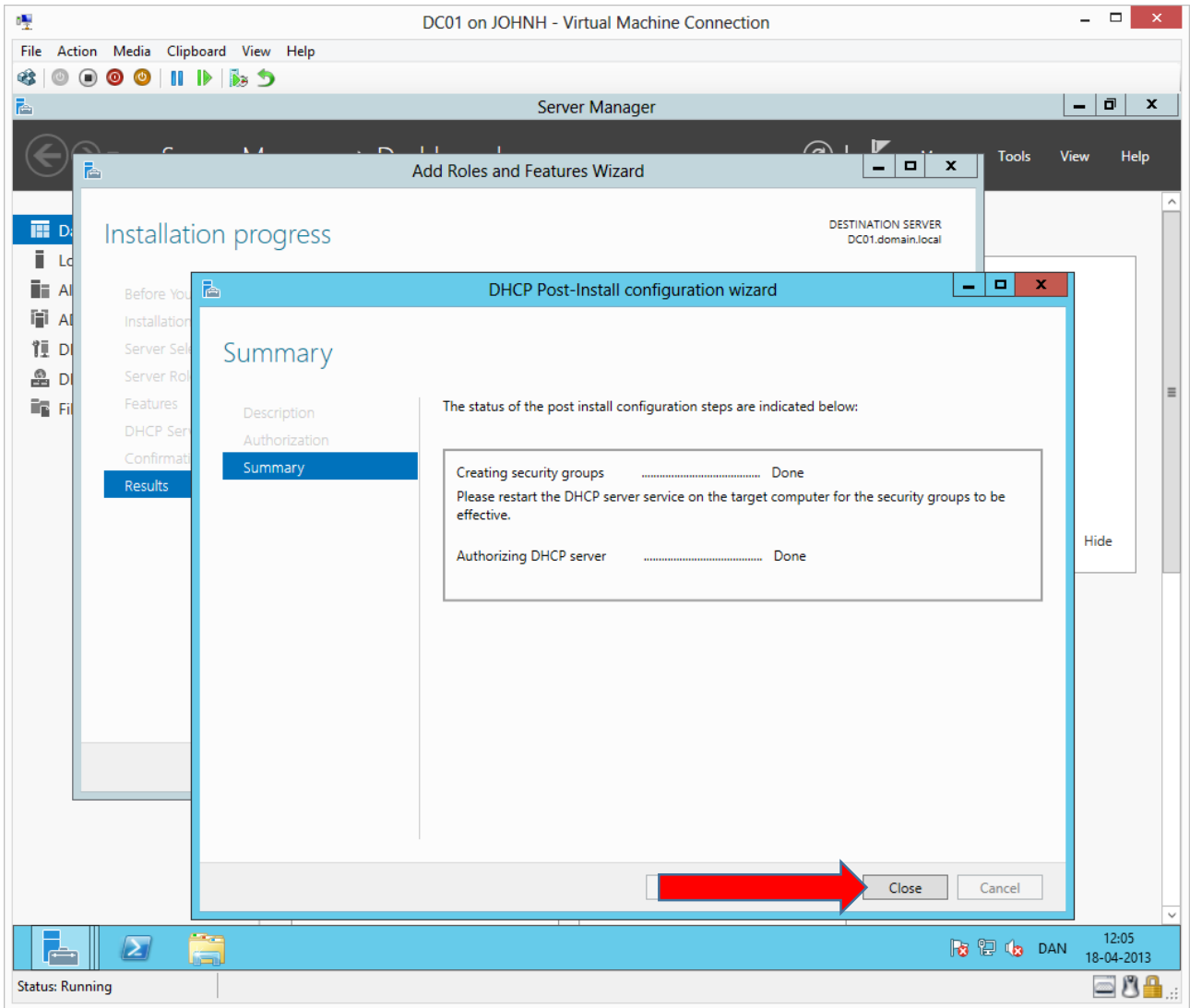


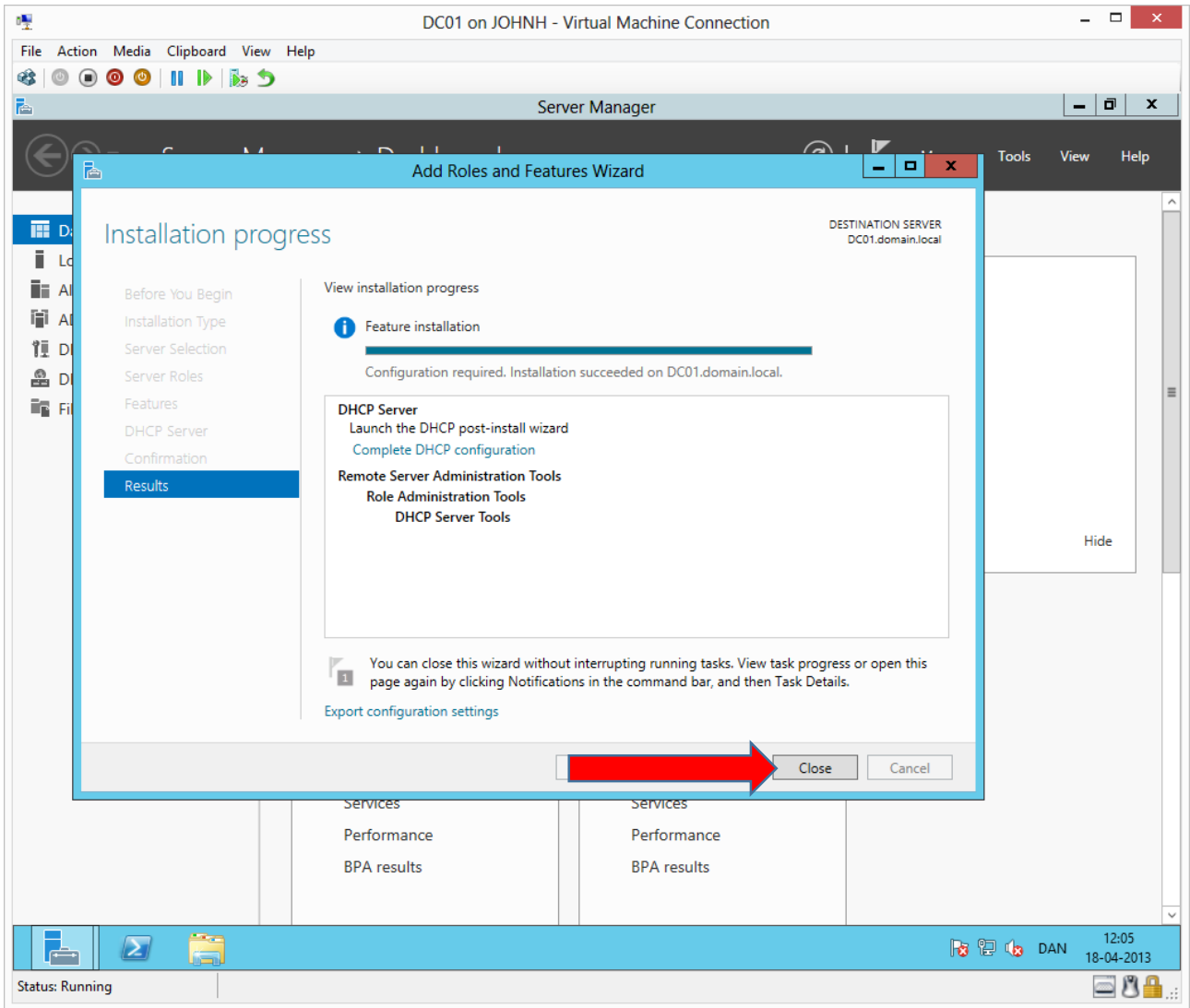














The screenshot shows the Windows Server Manager interface for a virtual machine named 'DC01 on JOHNNH'. The main window title is 'Server Manager' and the current view is 'Dashboard'. The interface includes a navigation pane on the left with options like 'Local Server', 'All Servers', 'AD DS', 'DHCP', 'DNS', and 'File and Storage Services'. The main content area displays a 'WELCOME TO SERVER MANAGER' section with a 'QUICK START' guide containing four steps: 1. Configure this local server, 2. Add roles and features, 3. Add other servers to manage, and 4. Create a server group. Below this is a 'ROLES AND SERVER GROUPS' section showing 'AD DS' and 'DHCP' roles, each with sub-items for Manageability, Events, Services, Performance, and BPA results. A 'Tools' menu is open on the right, listing various administrative tools. A red arrow points to the 'Tools' menu, and another red arrow points to 'DHCP' in the list. The taskbar at the bottom shows the system tray with the time '12:06' and date '18-04-2013', and the status 'Status: Running'.

Server Manager Dashboard

WELCOME TO SERVER MANAGER

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

ROLES AND SERVER GROUPS

Roles: 4 | Server groups: 1 | Servers total: 1

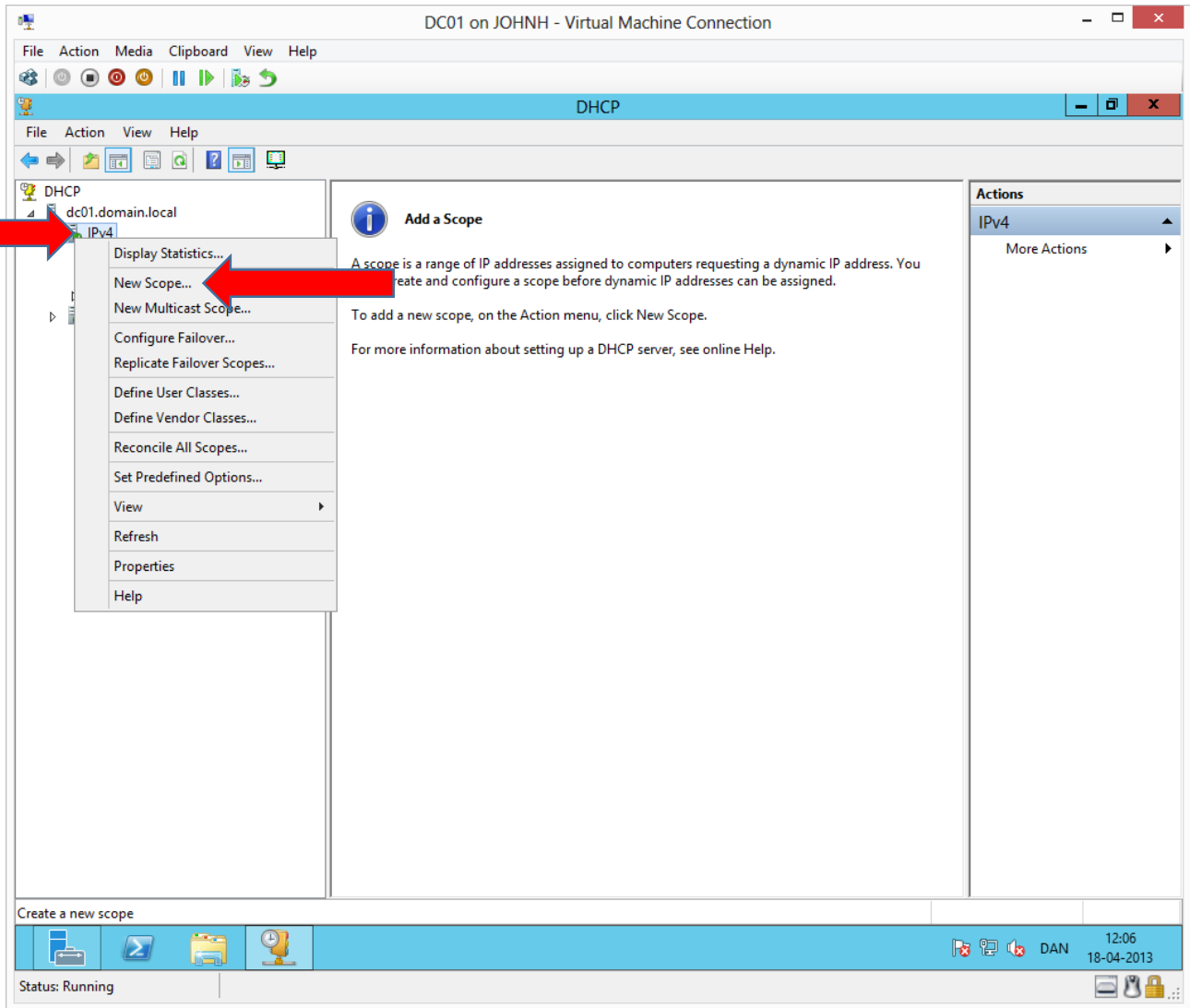
Role	Count
AD DS	1
DHCP	1

Tools

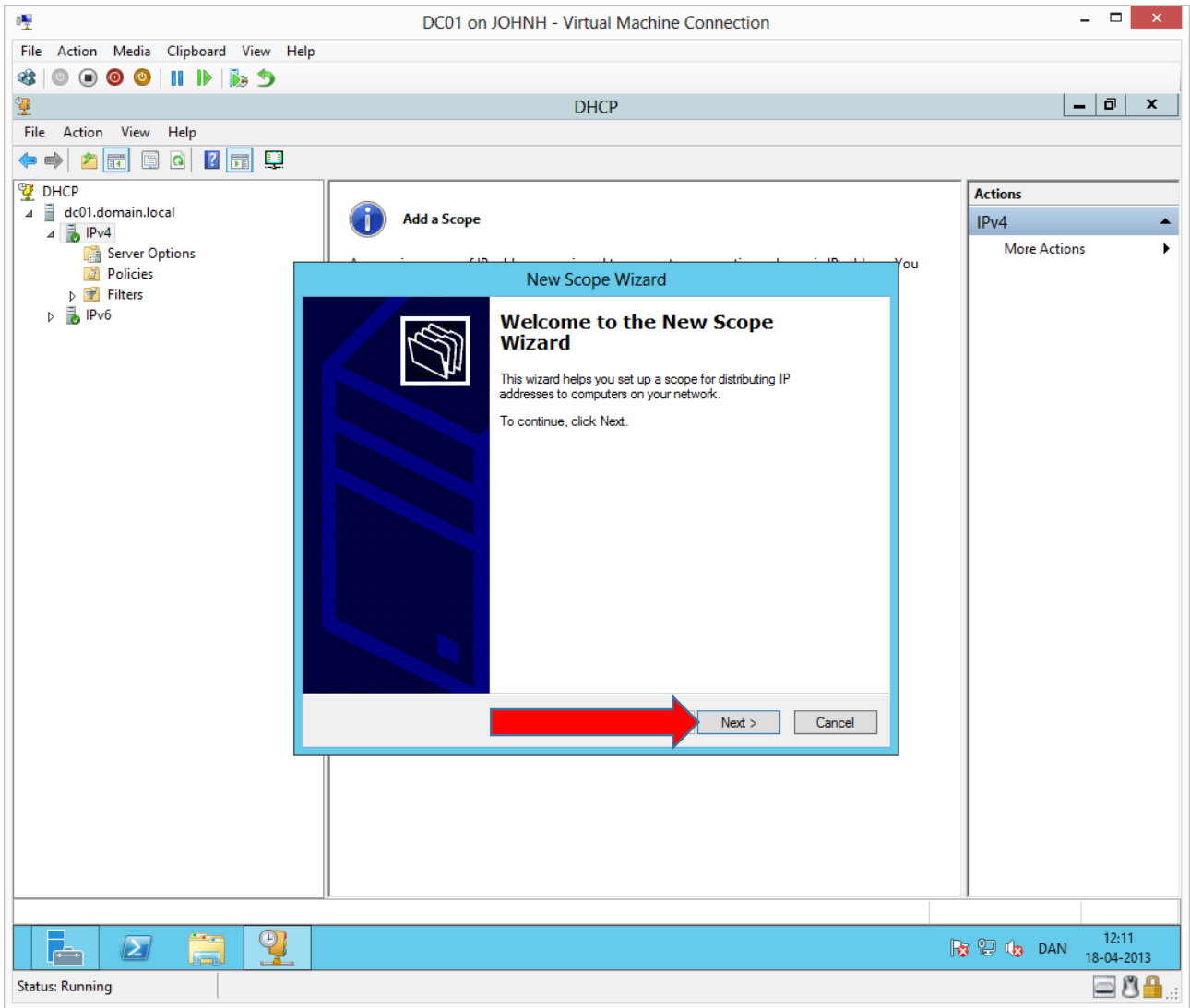
- Active Directory Administrative Center
- Active Directory Domains and Trusts
- Active Directory Module for Windows PowerShell
- Active Directory Sites and Services
- Active Directory Users and Computers
- ADSI Edit
- Component Services
- Computer Management
- Defragment and Optimize Drives
- DHCP
- 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

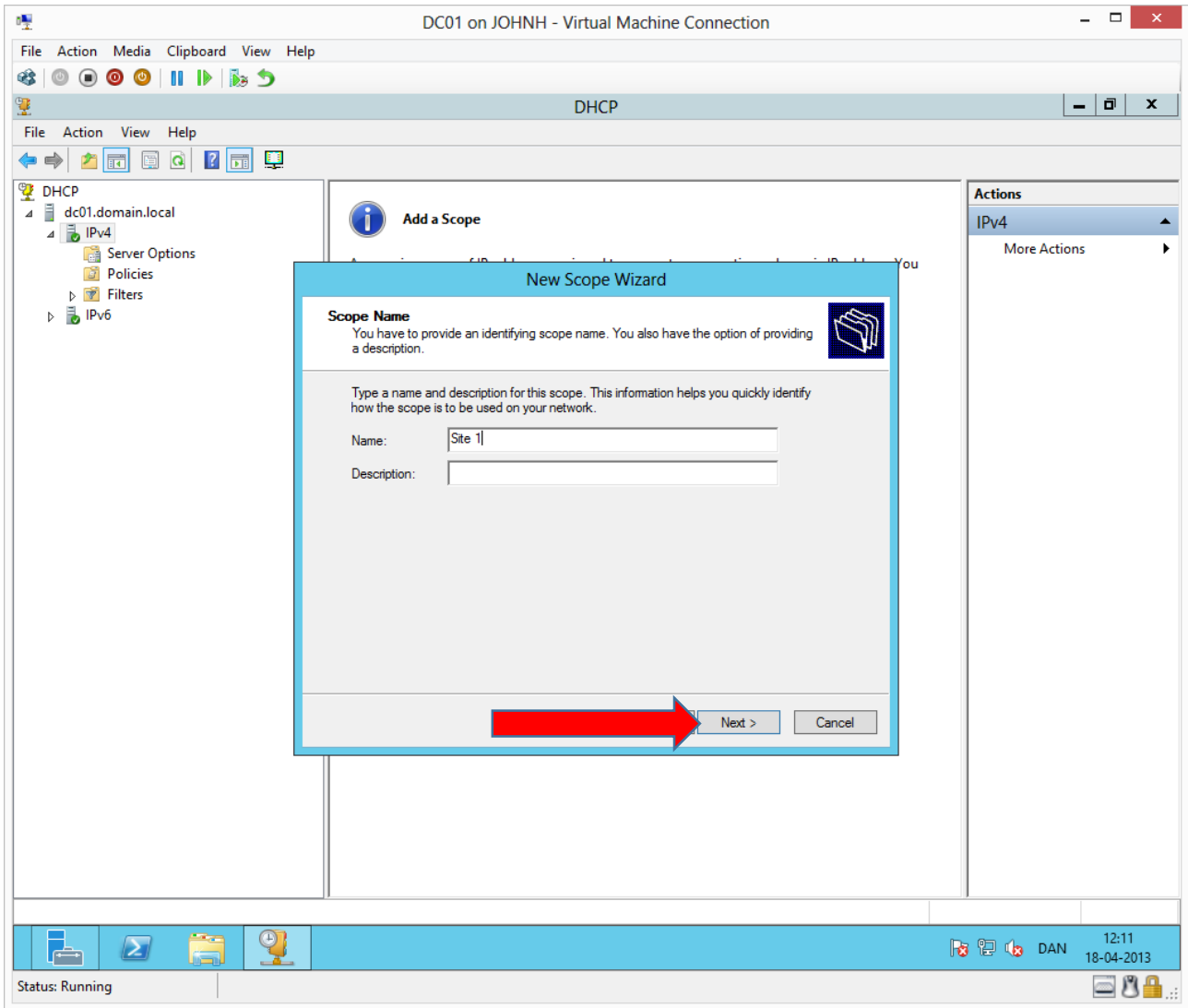
Status: Running

12:06  
18-04-2013

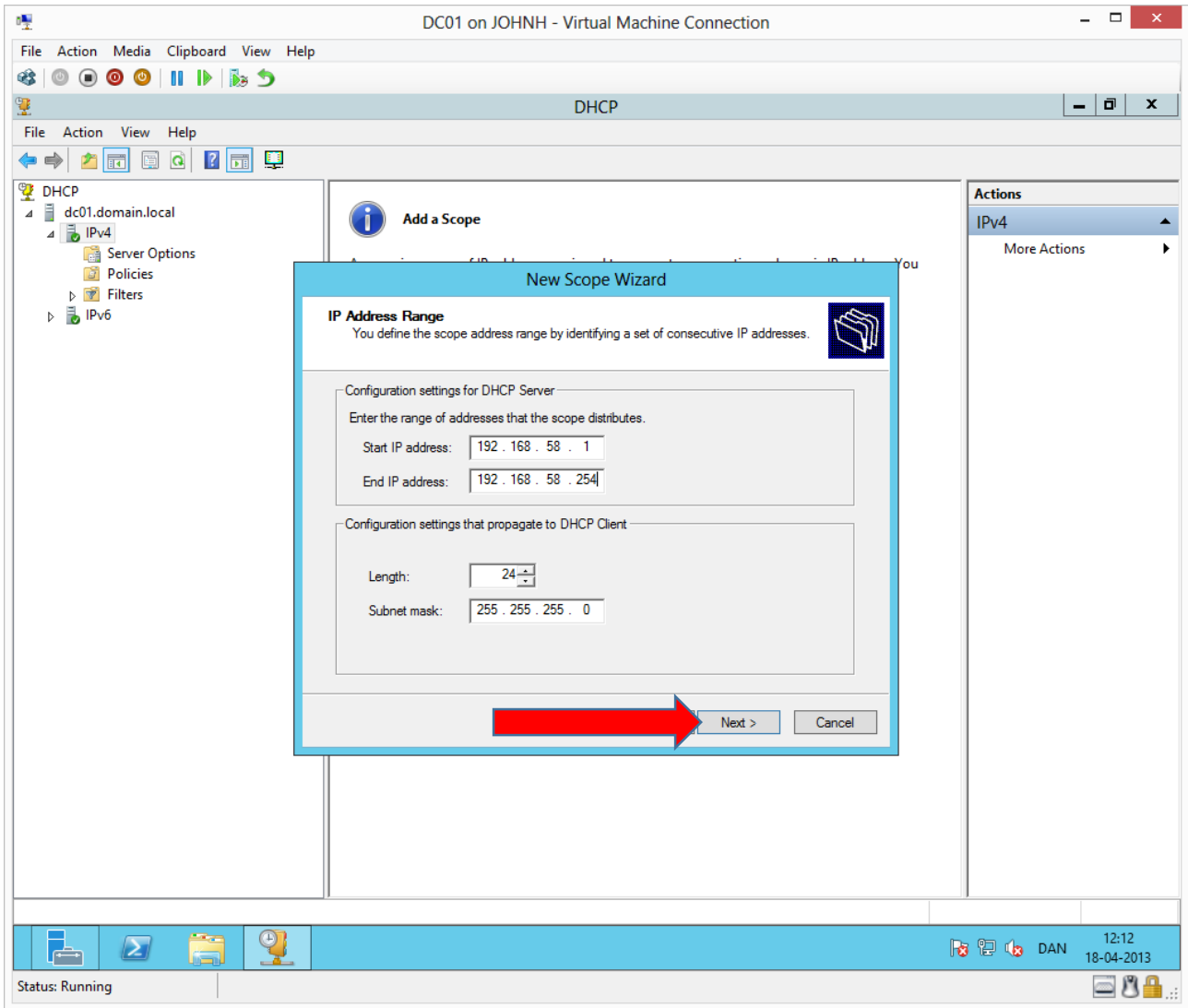


Right click on IPv4 and choose "New Scope"

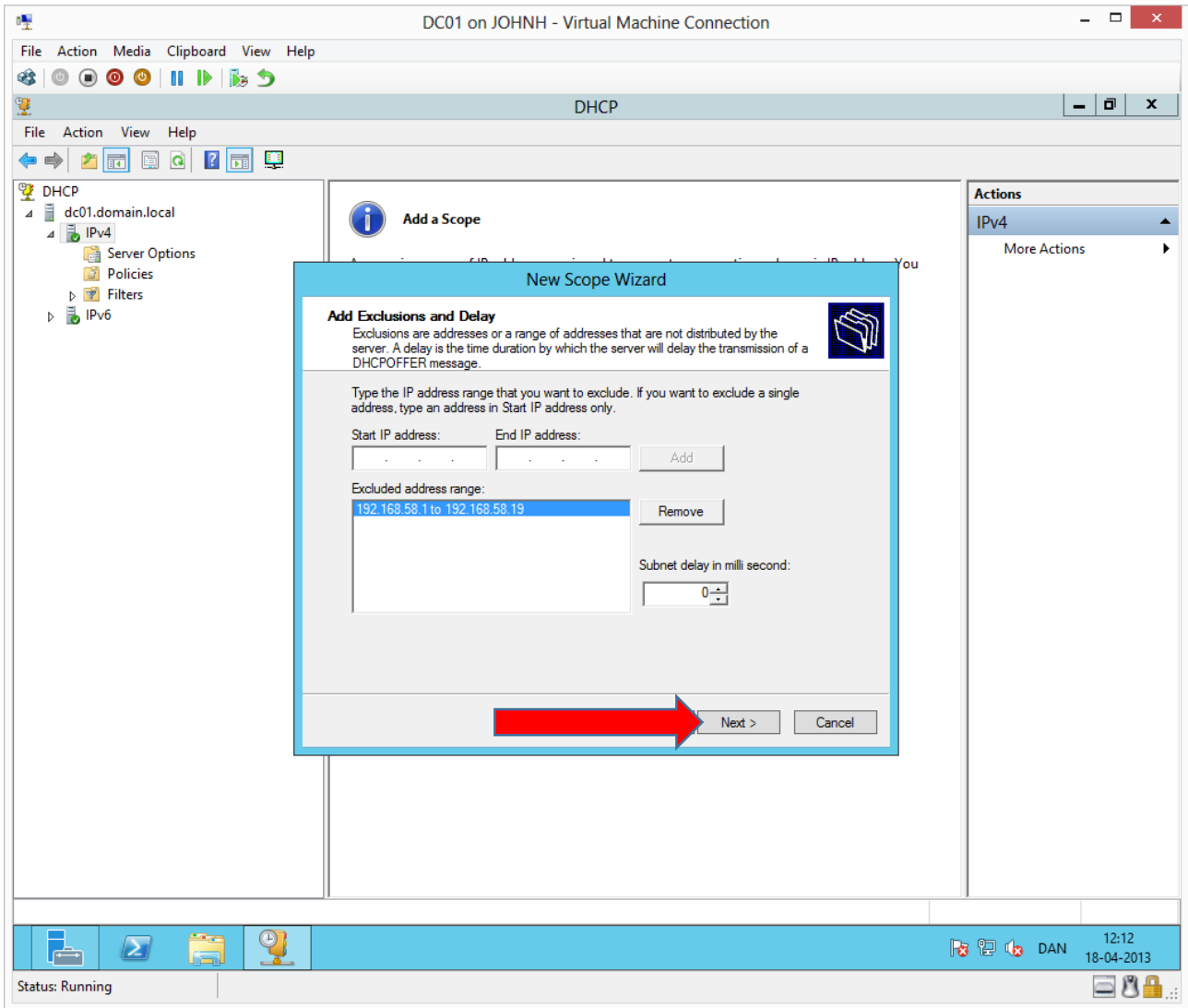




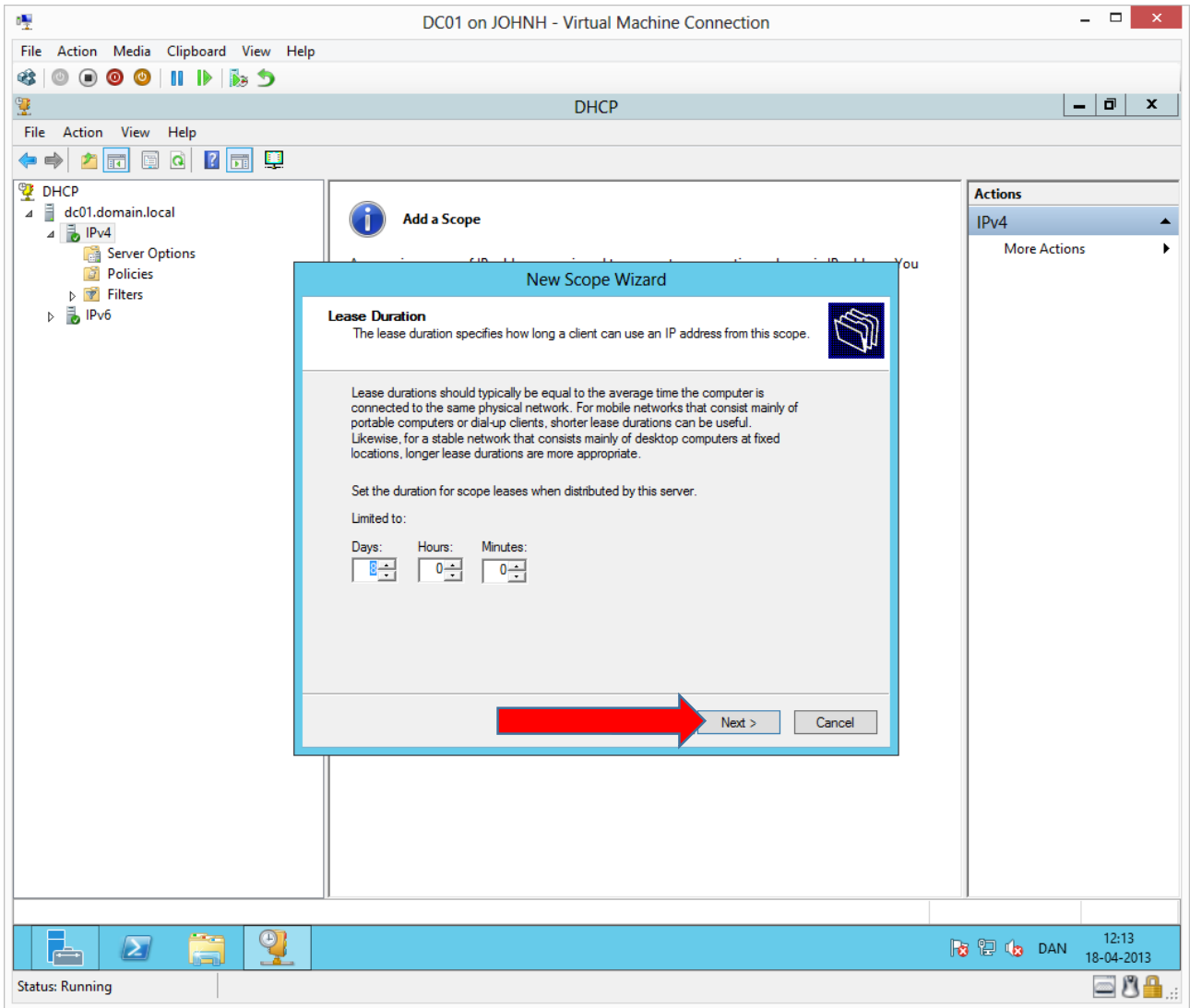
Complete as shown.

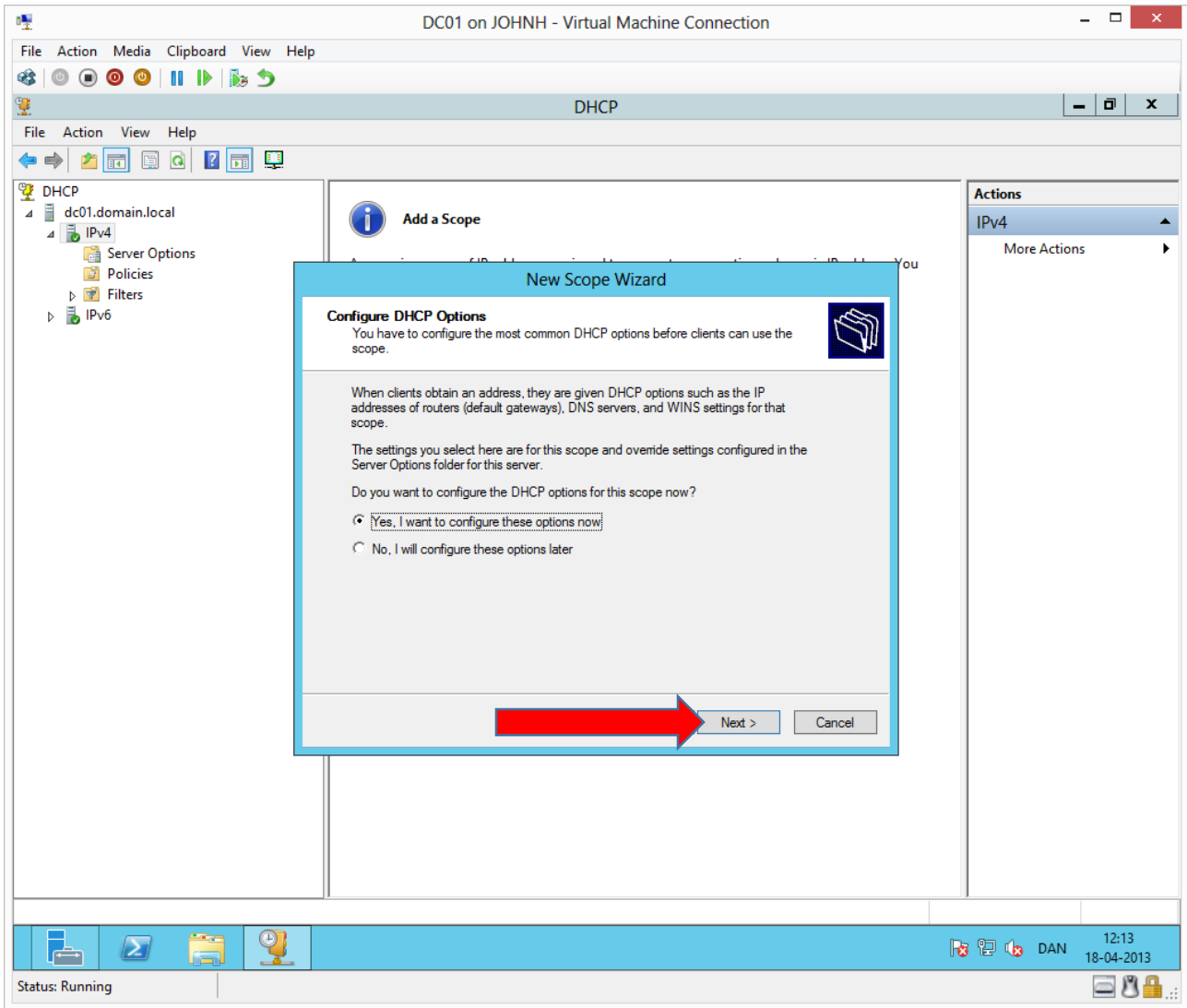


Complete as shown.



Complete as shown.







DC01 on JOHNNH - Virtual Machine Connection

File Action Media Clipboard View Help

DHCP

File Action View Help

DHCP

- dc01.domain.local
  - IPv4
    - Server Options
    - Policies
    - Filters
    - IPv6

**Add a Scope**

**New Scope Wizard**

**Router (Default Gateway)**  
You can specify the routers, or default gateways, to be distributed by this scope.

To add an IP address for a router used by clients, enter the address below.

IP address:

192.168.58.1

Add Remove Up Down

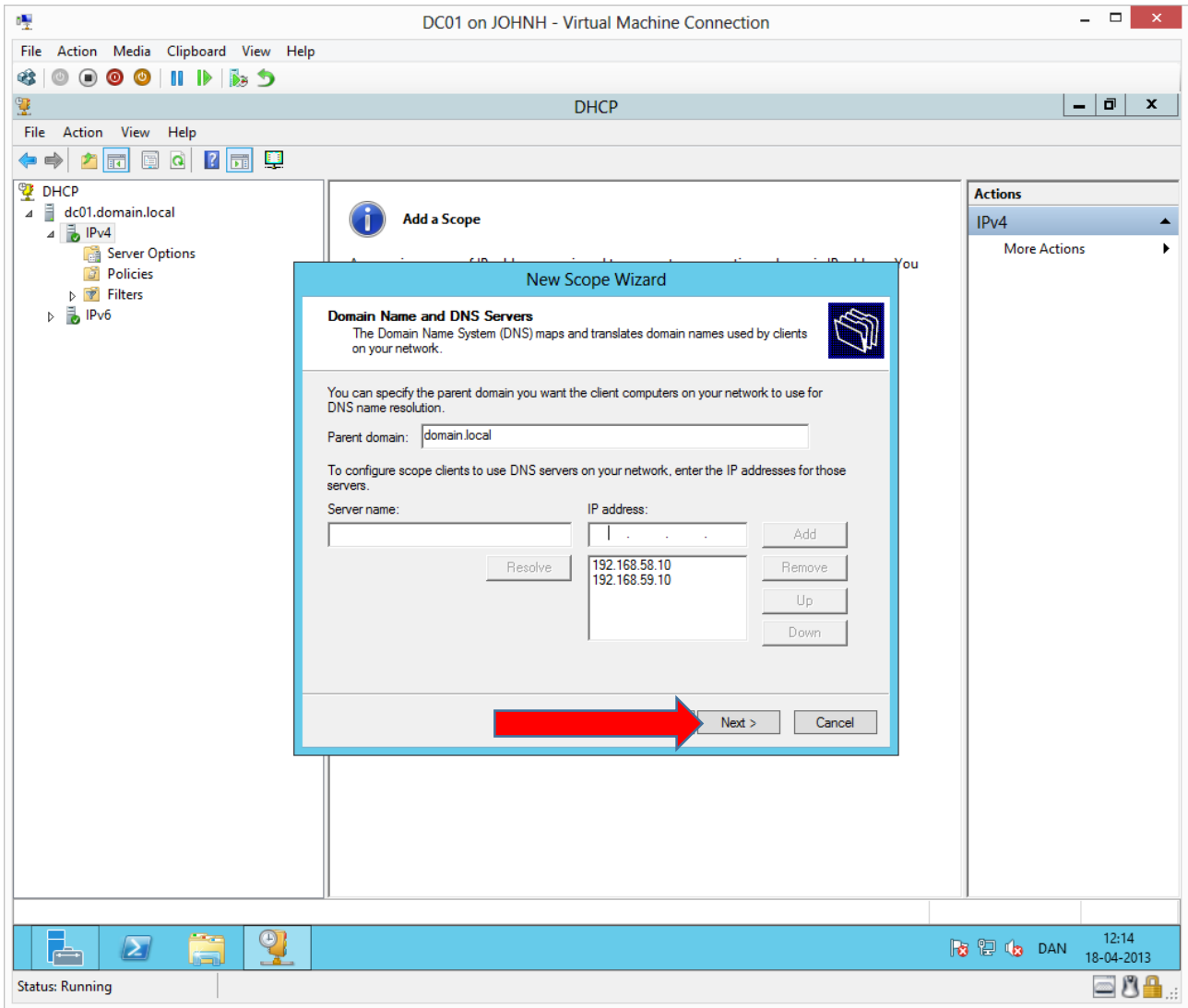
Next > Cancel

Actions

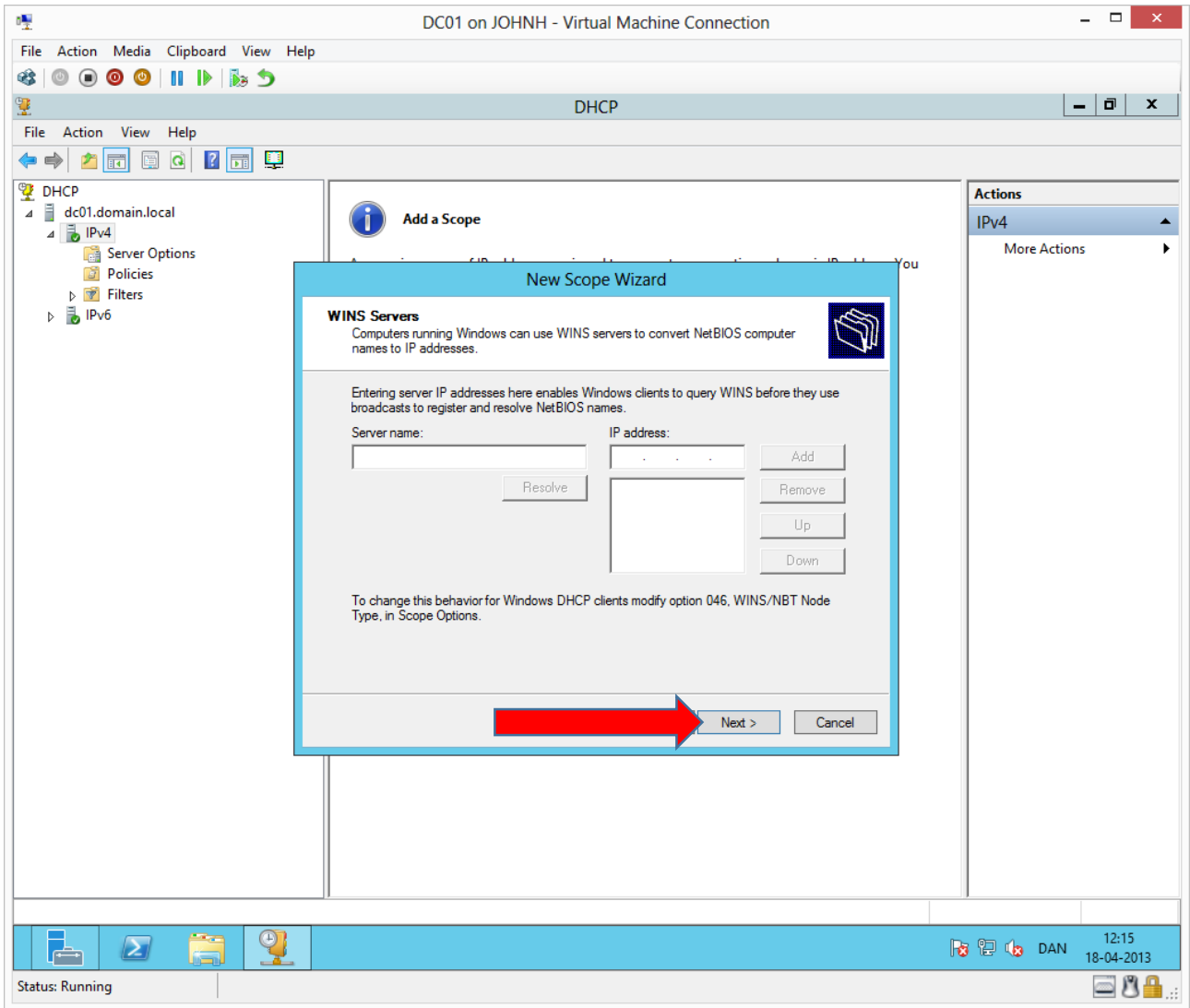
- IPv4
  - More Actions

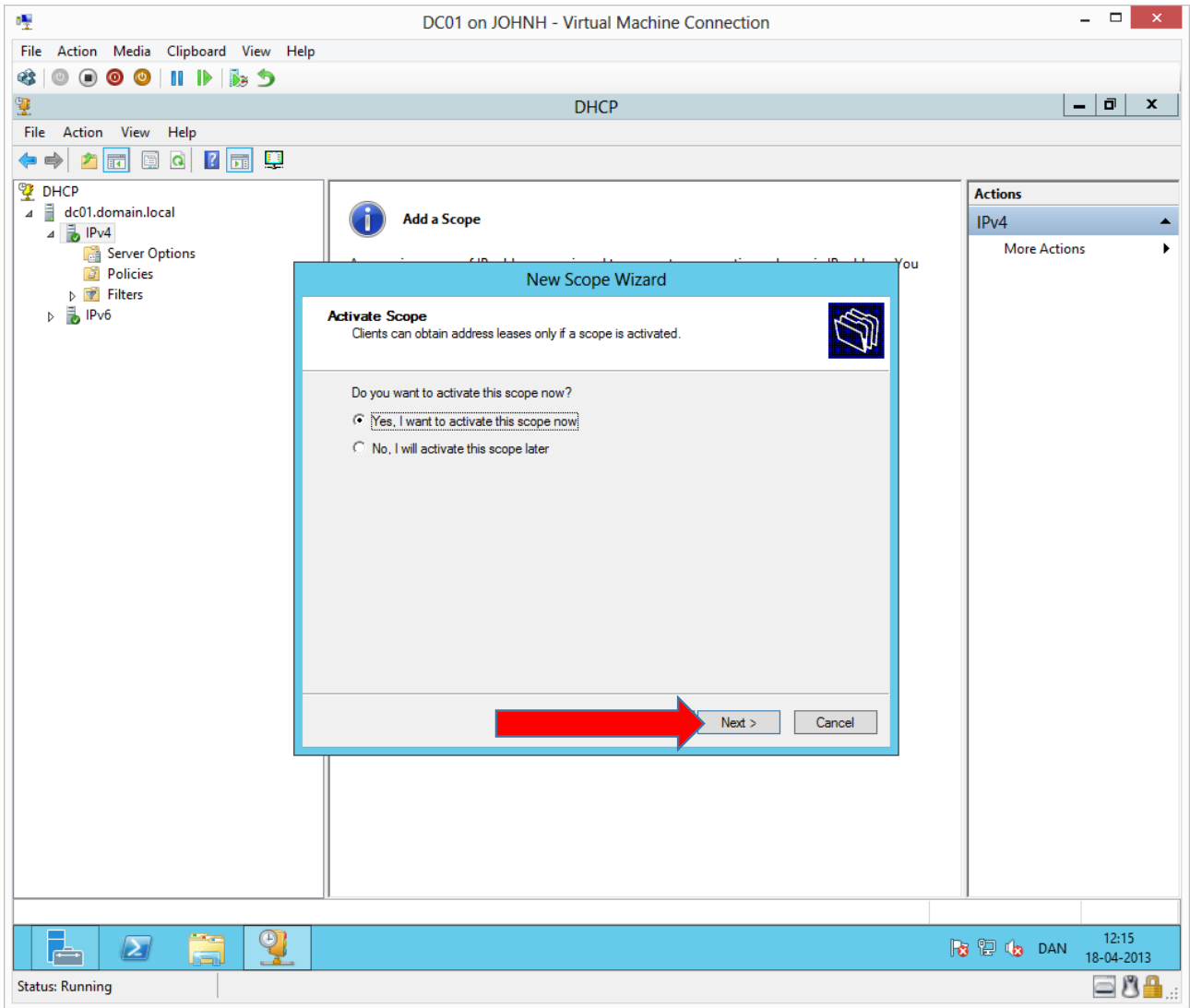
Status: Running

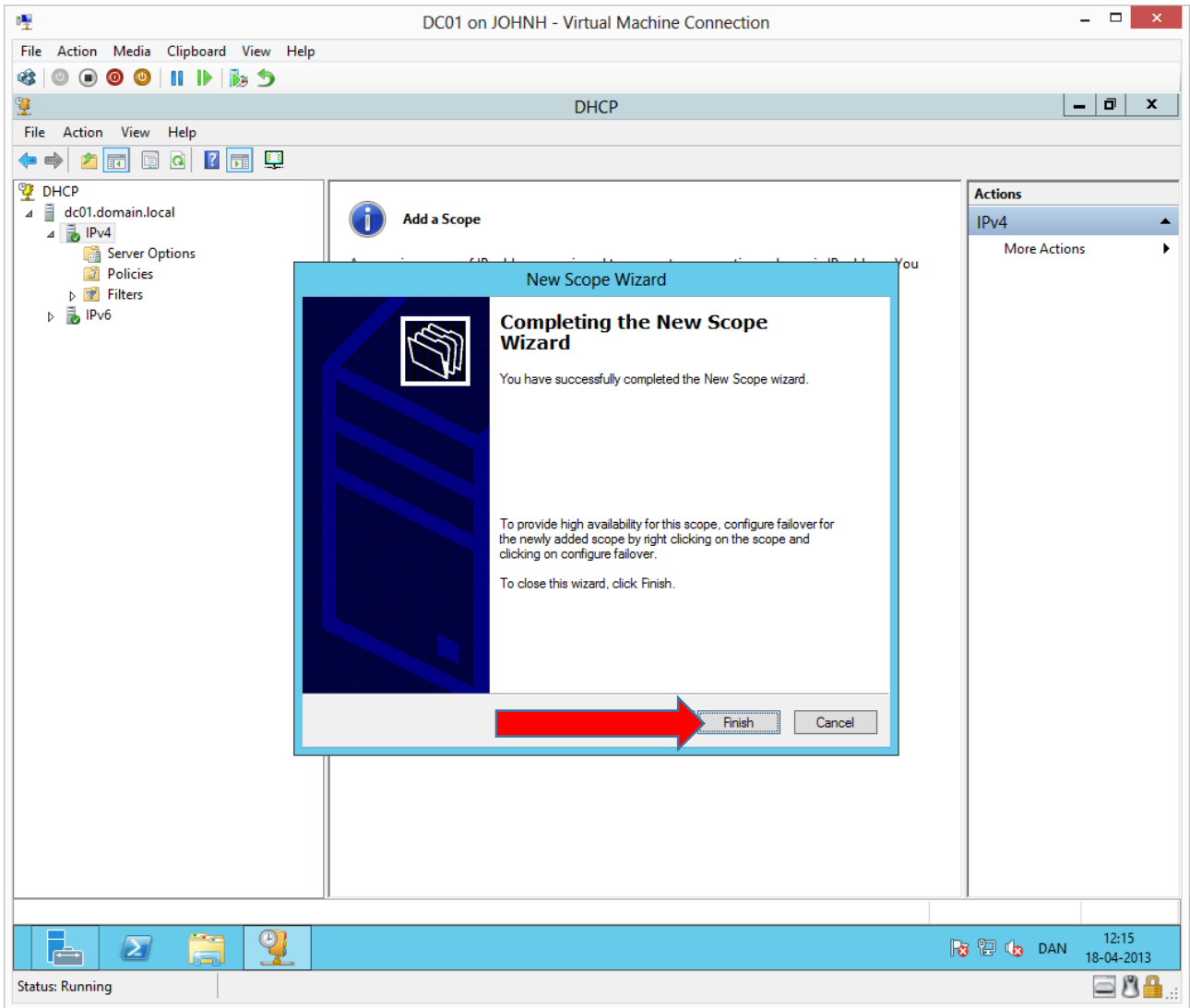
12:13  
18-04-2013

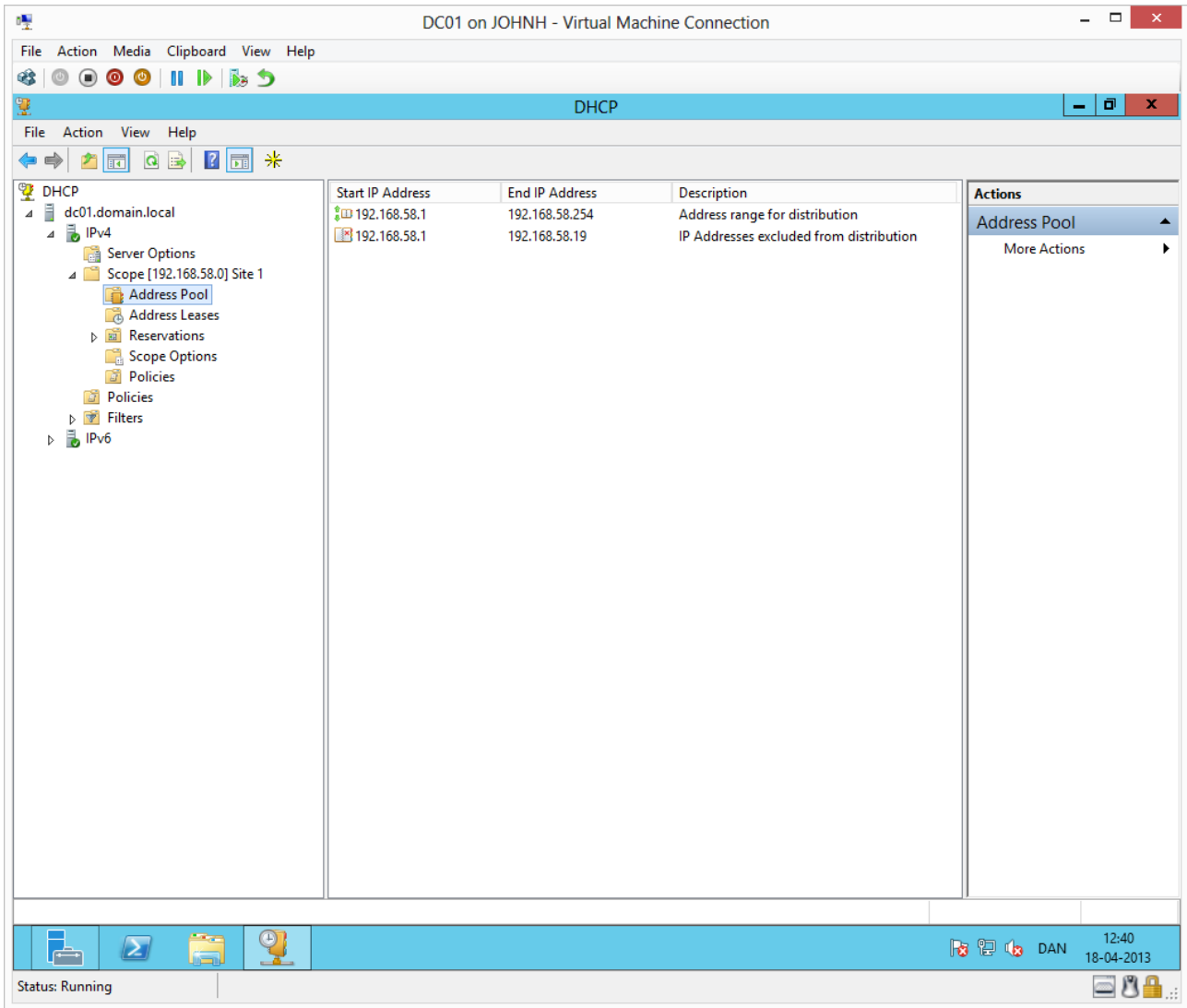


Complete as shown. Press "OK" at error message about the secondary DNS.

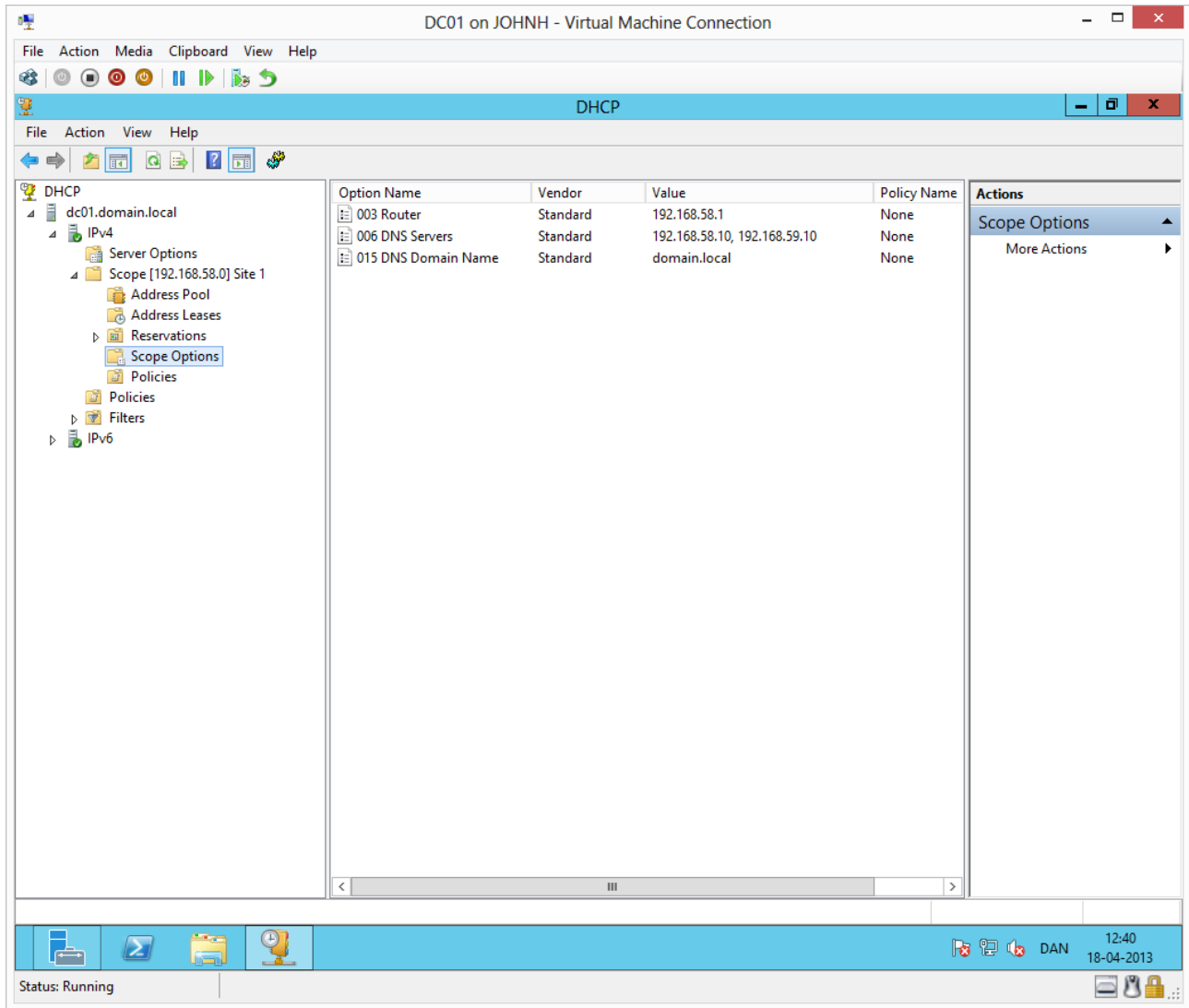








Verify the server configuration.



Verify the server configuration.