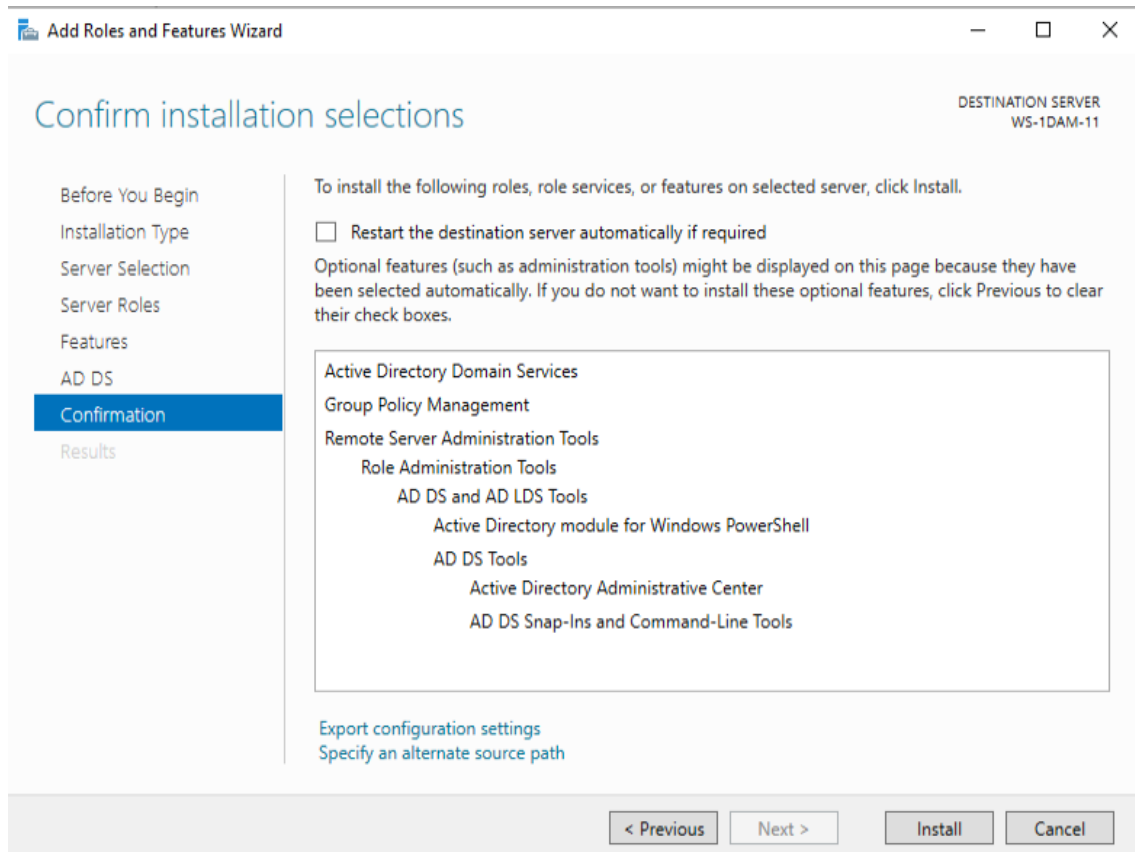


Exercise Ismael Ruiz-Huidobro Arroyo

1. Open "Server Manager" and select "Dashboard" on the left column -> Welcome to server manager -> Quick start -> 1 Configure this local server -> 2 Add roles and features.
On the "Add Roles and Features Wizard" window -> "Next" -> "Next" -> "Next" -> "Select server roles": select "Active Directory Domain Services" -> "Add Features" -> "Next" -> "Next" -> "Next" -> "Install". **Screenshot** . Then: "Close".



2. After the "Active Directory Domain Services" Role has been installed, restart the server. Open "Server Manager" and click on the "yellow warning" located in the flag icon. Then, click on "Promote this server to a domain controller".
On the "Active Directory Domain Services Configuration Wizard", on "Deployment Configuration", "Select the deployment operation": choose "Add a new forest". On "Root domain name" write: "SI-XY.LOCAL" being XY the last 2 digits of your real computer's IP (your real computer, not your partner's real

computer). **Screenshot** . Click “Next”.

The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window. The title bar includes the window icon, the text 'Active Directory Domain Services Configuration Wizard', and standard window controls (minimize, maximize, close). The main content area is titled 'Deployment Configuration' in a large blue font. In the top right corner, it says 'TARGET SERVER WS-1DAM-11'. On the left side, there is a vertical list of steps: 'Deployment Configuration' (highlighted in blue), 'Domain Controller Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main area contains the following sections: 'Select the deployment operation' with three radio buttons: 'Add a domain controller to an existing domain', 'Add a new domain to an existing forest', and 'Add a new forest' (which is selected). Below this is the section 'Specify the domain information for this operation' with a label 'Root domain name:' and a text input field containing 'SI-11.LOCAL'. At the bottom left of the main area is a link 'More about deployment configurations'. At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

3. On “Domain Controller Options” -> Forest functional level: “Windows Server 2016” -> Domain functional level: “Windows Server 2016”. On “Specify domain controllers capabilities”: check “Domain Name System (DNS) server”, and check “Global Catalog (GC)”. For the password, type “Balmis1”. **Screenshot** . Click “Next”.

On “DNS Options”, DO NOT check “Create DNS delegation”. Click “Next”.

On “Additional Options”, DO NOT change “The NetBIOS domain name”. Click “Next”.

On “Paths” -> Click “Next”.

On "Review Options" -> Click "Next".

The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window. The title bar reads 'Active Directory Domain Services Configuration Wizard'. The main heading is 'Domain Controller Options'. In the top right corner, it says 'TARGET SERVER WS-1DAM-11'. On the left, there is a navigation pane with the following items: 'Deployment Configuration', 'Domain Controller Options' (which is highlighted with a blue bar), 'DNS Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main content area is titled 'Select functional level of the new forest and root domain'. It contains two dropdown menus: 'Forest functional level:' and 'Domain functional level:', both set to 'Windows Server 2016'. Below these is a section 'Specify domain controller capabilities' with three checkboxes: 'Domain Name System (DNS) server' (checked), 'Global Catalog (GC)' (checked), and 'Read only domain controller (RODC)' (unchecked). Further down is a section 'Type the Directory Services Restore Mode (DSRM) password' with two password fields: 'Password:' and 'Confirm password:', both containing masked characters (dots). At the bottom of the main content area is a link that says 'More about domain controller options'. At the very bottom of the window, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

4. On "Prerequisites Check", after the window loads completely, **screenshot** -> Click "Install".
- Wait until the "Active Directory Domain Services Configuration Wizard" finishes the installation.
- "You're about to be signed out" blue window -> Click "Close".

The server will restart: this can take some minutes.

Active Directory Domain Services Configuration Wizard

TARGET SERVER
WS-1DAM-11

Prerequisites Check

✓ All prerequisite checks passed successfully. Click 'Install' to begin installation. [Show more](#) ✕

- Deployment Configuration
- Domain Controller Options
 - DNS Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check**
- Installation
- Results

Prerequisites need to be validated before Active Directory Domain Services is installed on this computer

[Rerun prerequisites check](#)

⬆ View results

⚠ Windows Server 2019 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.

For more information about this setting, see Knowledge Base article 942564 (<http://go.microsoft.com/fwlink/?LinkId=104751>).

⚠ A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain "SI-11.LOCAL". Otherwise, no action is required.

⚠ If you click Install, the server automatically reboots at the end of the promotion operation.

[More about prerequisites](#)

< Previous Next > Install Cancel

Active Directory Domain Services Configuration Wizard

TARGET SERVER
WS-1DAM-11

Installation

- Deployment Configuration
- Domain Controller Options
 - DNS Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check
- Installation**
- Results

Progress

Starting

⬆ View detailed operation results

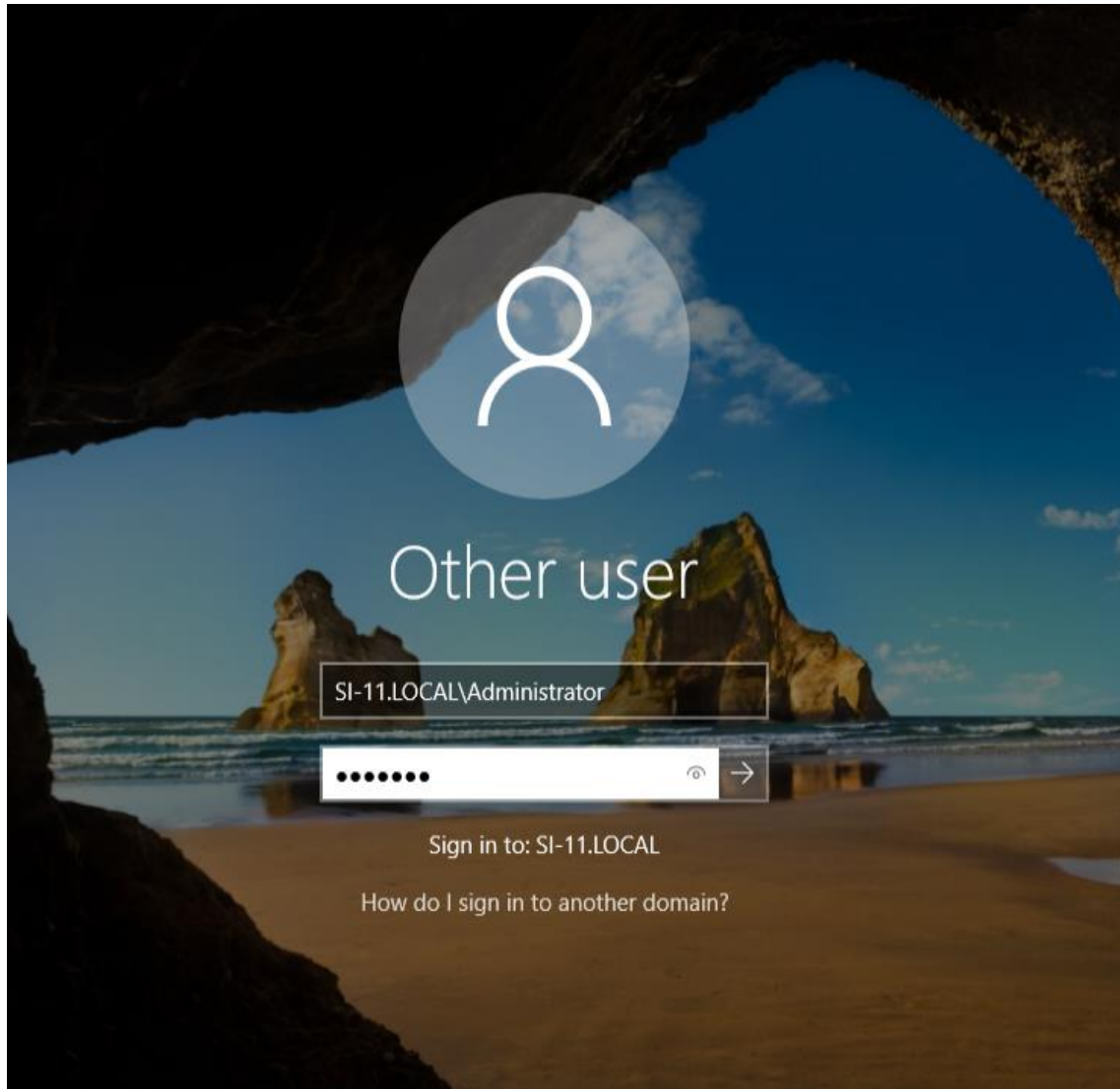
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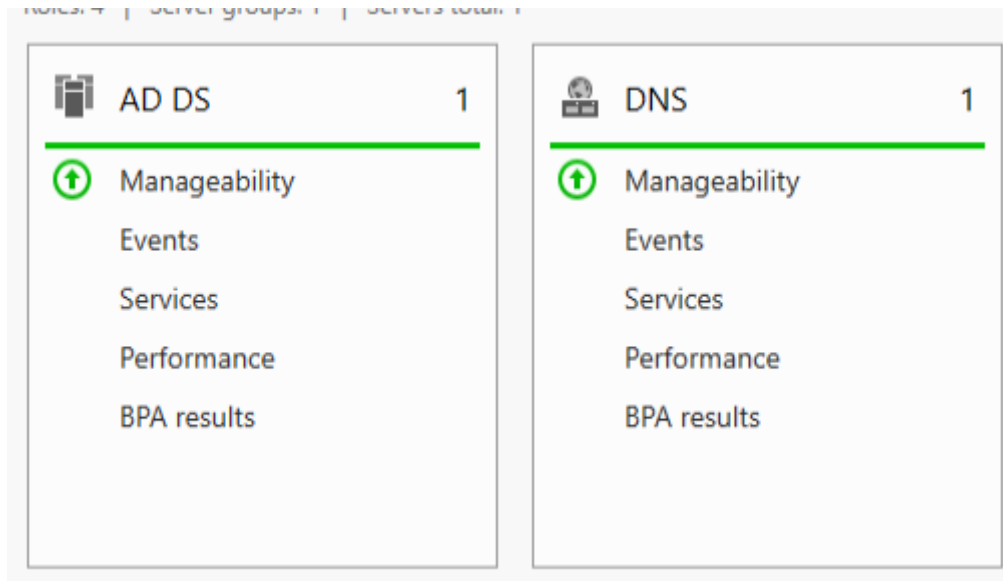
[More about installation options](#)

< Previous Next > Install Cancel

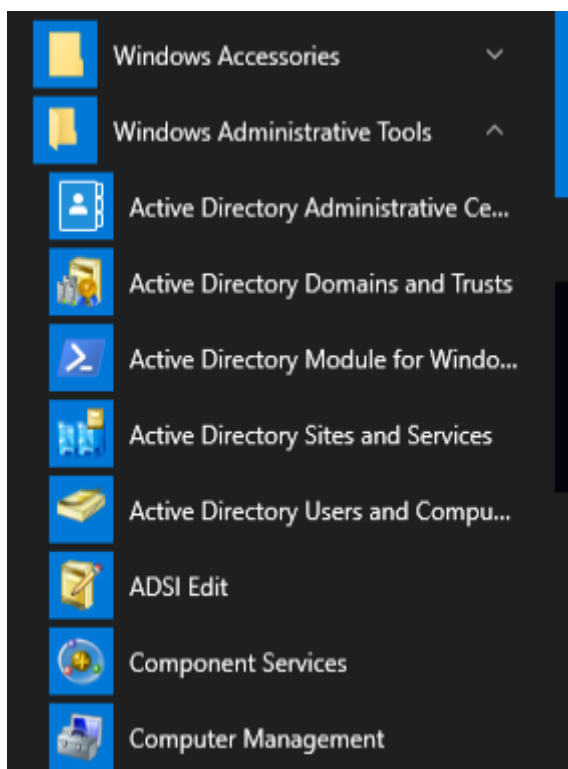
5. After restarting, login with user "NAME-OF-YOUR-DOMAIN\Administrator" and password "Balmis1", taking a **screenshot** .

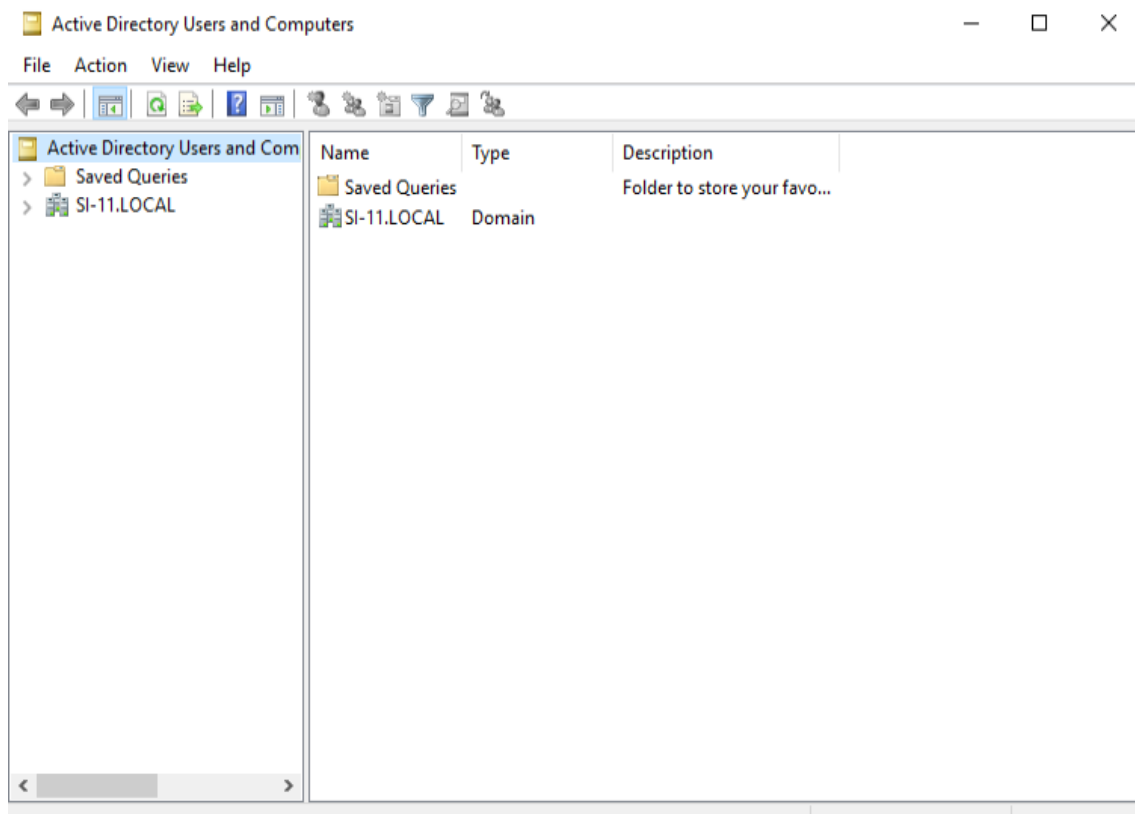


6. Open "Server Manager" and select "Dashboard" on the left column. Scroll down to "ROLE AND SERVER GROUPS" and check the Roles that you have installed and running (green color) on your server. Now you should have 2 new Roles: "AD DS" (Active Directory Domain Services) and "DNS". Go the Start button -> Windows Administrative Tools. You should have like 6 new programs named "Active Directory ...", take a **screenshot** .



7. Click on “Active Directory Users and Computers” to open this program and check it out. Now you have installed “Active Directory Domain Services”: you have a Windows Domain fully functional and your Windows Server is a Domain Controller. **Screenshot** .





1. Go to the TCP/IP settings, and on “Preferred DNS server”, write the IP of your Windows Server machine. **Screenshot** .

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 0 . 111

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: 192 . 168 . 0 . 183

Alternative DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

2. Go to "File Explorer" -> "This PC" -> Right click "Properties" -> "Change settings" -> "Computer name" tab -> "Change" button -> Check "Domain" -> Write: "NAME-OF-YOUR-DOMAIN". **Screenshot** .

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name:
1DAM-21

Full computer name:
1DAM-21

More...

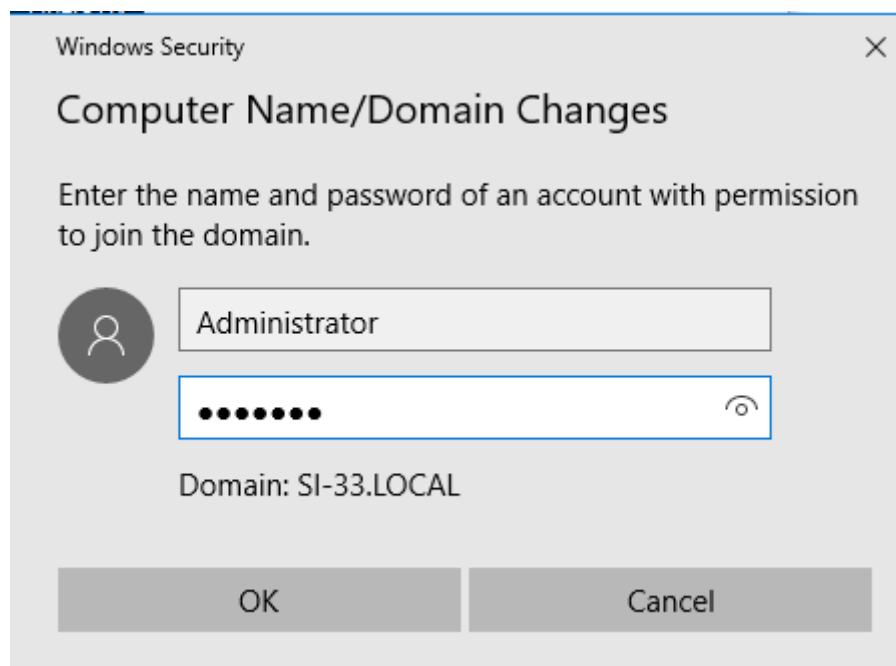
Member of

☒ Domain:
SI-33\LOCAL

☐ Workgroup:
WORKGROUP

OK Cancel

3. It will prompt a window asking for a user with administrative permissions: write user "Administrator" and password "Balmis1". After being welcomed to your domain, restart your Windows 10 (client) virtual machine. On the login window, write user "Administrator" and password "Balmis1" and login to your Windows 10 (client) virtual machine. **Screenshot** .



Computer Name/Domain Changes X



Welcome to the SI-33.LOCAL domain.

OK



SI-33\ADMINISTRATOR

SI-33\Administrator
Administrator

Create your picture