# Part 1

Assignment: Create a documentation for installation, adaptation and deployment

of Windows 11 for the Specter organization. Specter is an organization that

operate in technology and are experts in advanced weapon systems.

Take the following hypothetical situation as a starting point.

In your position as an IT consultant, you have been tasked with making a plan and documenting the setup of new ones

PCs in the company Spectre. Specter has purchased 20 new laptops for employees. All the machines must

have almost the same setup. This plan must subsequently be delivered to the IT managers in the company who must

assess the solution to evaluate whether it is possible to use it for Spectre. All the machines must for

otherwise be identically configured so the same description can apply to all.

Your job is to document an installation plan for Spectre's new machines with a description of

which technologies and methods from Windows 11 will be used, as well as a justification and explanation

of the choices you have made. You don't need to create a how-to that explains the steps

the installation, but must deliver a description and explanation of the technology behind the solution.

Feel free to make your own assumptions about which services and configurations in Windows 11 you think are

necessary or practical to use on the client, remember to justify why you have chosen these.

The task can be solved in its entirety on the school's virtual Azure solution and you do not need physical ones

machines.

When your report has been approved, the IT people responsible will use this as a template for how to install

and configure the PCs.

The following requirements are given regarding the installation (minimum requirements):

• all machines must have a Windows 11 version for the business market

• all the new machines have integrated network cards and are otherwise identically configured, all of them

supports PXE boot.

• each of the new machines has a 1 TB hard drive, 8 GB Ram and they were purchased without a bundled OS,

since the company has its own licenses via the volume licensing programme.

• in addition to the OS, all machines must have Office 365 apps installed locally, as well as an application

which can read PDF documents.

• the employees who will use the machines must have accounts on the machines.

• On the laptops, it must be saved to a hibernate file now that the lid is closed.

• Updates must not be run during normal working hours. Beyond this, choose a reasonable one yourself

plan and justify this.

• You must make an assessment of the level of detail in the description yourself, remember that it is an IT expert

carry out your plan so you can expect a certain knowledge of the use and installation of PCs and

need not be excessively detailed.

• There must be relatively strict password rules on the machine, create a password policy and justify it

your choices.

• It must be possible for administrators to run Remote Desktop against the machine.

• It must be connected to the company's printers. These are 2 HP Printers of the type HP Laserjet Pro M404 Network administrator part 1 - Windows 11 project assignment

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• Network connection must be set to private.

• The letter P: must be connected to a share on one of the clients \\client1\common (you do not need

install client1 but only describe how this is done)

• Your users mess around a lot with files, so it is important that you have set up a backup

the masks.

The company's requirements are as follows:

- Minimize the installation process as much as possible, making it easy to install and roll

out new clients as these are to be implemented.

- Has an appropriately high level of security on the clients, both for the operating system itself and

associated applications.

- Automate the IP setup to the greatest extent possible so that you don't have to do anything special

configuration on the various clients. You should not create the IP setup on the server, but only

describe the technology from the client side.

General requirements for the assignment

The completed answer must contain an installation plan and associated justification as follows:

• the installation plan must be followed by a justification explaining the work that has been carried out and the choices

you have made. You must not bring any deployment solutions, such as e.g. Windows

Deployment Services in this task. Only describe the setup on the client.

# Part 2

Assignment: Create a documentation for installation, adaptation and deployment

of server 2019 for the organization Spectre.

Take the situation from project task 1 as a starting point.

Specter has now decided to replace the previous server park and implement a completely new AD Forest. Since

the previous installation has been managed by different administrators with different opinions it has become

unclear and poorly documented. For now, the management has approved the purchase of two Windows servers

Server 2019, standard edition. The plan is to replace the server park from before, keep the clients as

you have already made a plan for, but integrate these in AD and move away from local solutions in the largest

possible degree.

Your job is therefore to create a plan for Spectre's new server installation with a description of how

you will solve the challenges from task 1 in AD. As in task 1, you do not need to create one

procedure that explains the steps of the installation, but must provide a description and

explanation of the technology behind the solution.

Make your own assumptions about which services and configurations in Windows server 2019 you think are

necessary or practical to use, remember to justify why you have chosen these.

When your report has been approved, the IT people responsible will use this as a template for how to install

and configure the new servers.

The following requirements are given:

• all the clients must, to the greatest extent possible, be identical as they are set up in task 1 but against

AD and not local solutions or installations.

• The server has 5 disks of 2 TB and a system disk of 1 TB in addition. Management wants one

explanation of how these disks should be used for the highest possible operational reliability.

• the employees who will use the machines must have accounts on the server in the domain with policies such as

is necessary to meet the requirements of the client from task 1.

• Minimize the installation process as much as possible, making it easy to install and roll out

new clients as these are implemented.

• Has an appropriately high level of security on the clients, both for the operating system itself and

associated apps.

• You must make an assessment of the level of detail in the description yourself, remember that it is an IT expert

carry out your plan so you can expect a certain knowledge of the use and installation of PCs and

need not be excessively detailed.

• A justification before how the AD structure on the two servers is set up with GPOs.

• There must be good and appropriate security on the server, but a justification for your choices.

The company's requirements are as follows:

- Has an appropriately high level of security on the clients, both for the operating system itself and

associated applications.

- Automate the IP setup to the greatest extent possible so that you don't have to do anything special

configuration on the various clients. You need details in relation to the DHCP or DNS setup

do not account for in this assignment.Network administrator part

General requirements for the assignment

The completed answer must contain an installation plan and associated justification as follows:

• the installation plan must be followed by a justification explaining the work that has been carried out and the choices

you have made.

• You do not need to include network services such as DHCP and DNS in this task.

# Part 3

‘Assignment: Create documentation for network setup of servers and clients

for the organization Spectre.

## Assignment 1 part 3 (weighted 35% of the total)

Take the situation from project task 2 as a starting point.

In task 2, you created a plan for AD implementation and setup for the organisation. In this

task, you must describe the network setup with a particular focus on DHCP, DNS and the IP setup

as well as external login.

As in task 2, you do not need to create a procedure that explains the steps

the installation, but must deliver a description and explanation of the technology behind the solution and the

the choices you have made.

When your report has been approved, the IT people responsible will use this as a template for how to install

and configure the new server.

The following requirements are given:

• all clients must use automatic IP setup as much as possible

• there must be some degree of redundancy on the DHCP servers

• A description and justification of the DNS and DHCP setup

• A description and justification of the IP address configuration

• A proposal and overview of connection methods for the various locations

• Feel free to come up with suggestions for further improvement measures for the solution beyond the requirements in this

the task

• Employees must be able to log in from outside and gain access to resources in the company's network. Beyond

this is the same requirement that applies from the previous task. Suggest any solution on how

this can be done.

• Feel free to make suggestions for any other solutions you think are appropriate.

• Make your own assumptions, remember to explain your choices.

## Assignement 2 part 3 (weighted 10% of the total)

In addition, the management has heard that today there are opportunities to run servers and software in it

"the cloud". They would therefore like to have an explanation of what this technology entails. Create one

short statement in which you explain to the management what storing in the cloud actually entails.

## Assignement 3 part 3 (weighted 15% of the total)

Specter is growing and there are constantly new employees who will have newly installed machines. Previously have

this installation has been done manually via memory sticks and descriptions of setup and configuration

on the client. You now want to do something about this. Include a description in the report of which

technologies Windows server has that can fully or partially automate the installation and setup of new

clients. It costs time and money to purchase such a solution, so feel free to bring some with you

important points on why this can be positive for the company.

The company's requirements are as follows:

- Has an appropriately high level of security on the clients, both for the operating system itself and

associated applications.

- Automate the IP setup to the greatest extent possible so that you don't have to do anything special

configuration on the various clients.

General requirements for the assignment

The completed answer must contain an installation plan and associated justification as follows:

• the installation plan must be followed by a justification explaining the work that has been carried out and the choices

you have made.