T-LEVELS | Institute for Apprenticeships & Technical Education

T Level Technical Qualification in Digital Support Services

Occupational specialism assessment (OSA)

Digital Infrastructure

Assignment 2 - Annotated checklist - Distinction

Guide standard exemplification materials

NCFE

T Level Technical Qualification in Digital Support Services

Occupational specialism assessment (OSA)

Digital Infrastructure

Guide standard exemplification materials

Assignment 2

Annotated checklist - Distinction

Contents

Task 2 Task sequence

Step A

(3 marks)

Processes	Settings	Marks	Evidence required
Install the provided server operating system on Server01 and Server02 Use suitable configurations that match your current time zone and provide evidence of the successful installation of the server operating system on both Server01 and Server02	All hard disks should be partitioned to a single 100% partition, and the machines named Server01 and Server02 Server01 and Server02 should have fixed IP addresses	1	Provide print screen or photographic evidence of the following: ☐ Server01 disk partitions ☐ Server01 IP address (1) Set ☐ Server01 IP address (2) Set ☐ Server01 name set ☐ Server01 regional settings, date and time
		1	☐ Server02 disk partitions ☐ Server02 IP address set ☐ Server02 name set ☐ Server02 regional settings, date and time
Install the provided desktop operating system on PC01	All hard disks should be partitioned to a single 100% partition Use suitable region-specific settings, otherwise the defaults should be taken	1	Provide print screen or photographic evidence of the following: ☐ PC01 disk partitions ☐ PC01 name set ☐ PC01 regional settings, date and time

Step B

(8 marks)

Processes	Settings	Marks	Evidence required
Install and configure DNS		**8**	☑ print screen showing DNS has been installed
Install and configure a directory service	Install a directory service with the domain name set as (First nameSurname).local, for example: JohnSmith.local		☑ print screen showing the directory service has been installed and configured
Install DHCP service on Server01			☑ print screen showing the DHCP service installed
Implement a DHCP scope using the IP range provided earlier			☑ print screen showing the DHCP scope configured
Evidence PC01 is using DHCP to join the network			☑ print screen showing PC01 has been assigned a DHCP address
Domain join Server02 and PC01 to Server01 forming the start of the network			☐ print screen showing Server02 domain joined ☐ print screen showing PC01 domain joined

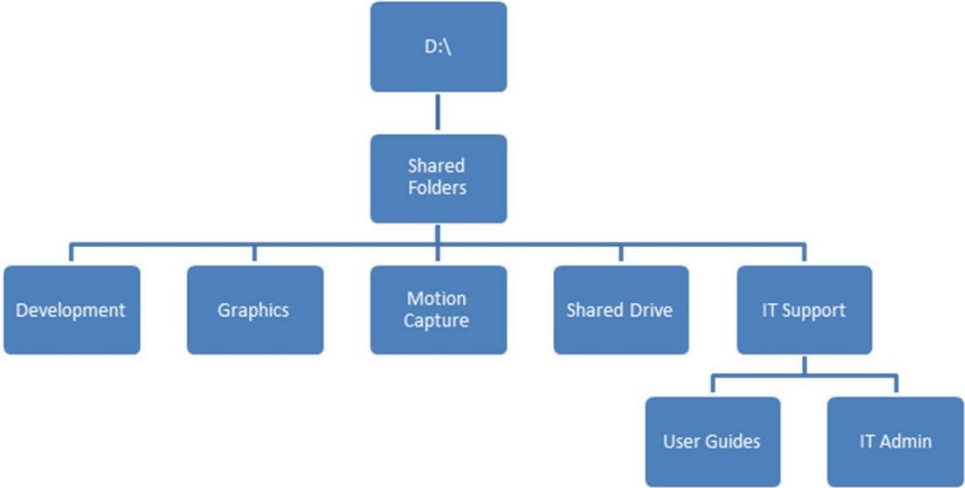| Install and confirm a reverse DNS lookup works on Server02 using NSLOOKUP			☑ print screen showing Server02 successfully completed a reverse lookup

Step C

(8 marks)

Processes	Settings	Marks	Evidence required
Requested groups have been created			
All user accounts have been created	Personal account has been added to admin group Paul James has been added to development group Tamara Jacobs has been added to graphics group Yousif Sobbah has been added to motion capture group		
Job titles have been added	Personal account has JD of IT admin Paul Jones has JD of development Tamara Jacobs has JD of graphics artist Yousif Sobbah has JD of motion capture specialist		
Local admin role set	Personal account has been added to administrators group Development added to development folder with RW permission Graphics group added to graphics folder with RW permission Motion capture group added to motion capture folder with RW permission All staff group added to shared drive with read permission		

	All staff added to user guides folder with read admin IT Admin added to user guides folder with RW permission IT admin added to IT admin folder with RW permission		
Create the following groups in your directory service	All staff, developer, graphics, motion capture, IT admin	**1**	☑ print screen showing the 5 groups created in your directory service

Populate the directory service with the following user accounts making sure they are added to the correct group and each user has the right privilege:	1	☑ print screen evidence that each user has the correct name, privilege, job description and has been added to the correct group

User account	Privileges	Job description	Group(s)
Your first and surname	Administrator	IT admin	IT admin
Paul James	Standard user	Developer	Development
Tamara Jacobs	Standard user	Graphics artist	Graphics
Yousif Sobbah	Standard user	Motion capture specialist	Motion capture

Using the group called **all staff,** add the following groups to this group: • development • graphics • motion capture • IT admin	1	☑ print screen showing all 5 groups added to the all staff group

Processes	Settings	Marks	Evidence required
Create the following folder structure on second partition of Server02		**N/A**	Marks are **not** awarded for creating the folder structure and you do **not** need to submit evidence for this task

Processes	Settings				Marks	Evidence required
Apply the following privileges to each of the folders using the groups created earlier	**Folder**	**Group**	**Permission**		1	☑ print screens showing each folder with correct privileges
	Development	IT admin	Read and write			
	Graphics	Development	Read and write			
	Motion Capture	Motion capture	Read and write			
	Shared Drive	All staff	Read			
	User Guides	All staff	Read			
		IT admin	Read and write			
	IT admin	IT admin	Read and write			
Using the files provided, populate the folder structure						
Using the test plan template provided in the workbook, prove that the privileges work correctly using both a valid **and** invalid user **Note**: The shared drive only requires a valid user to be tested					4	☑ completed test plan ☑ print screens showing folder privileges have been tested

Step D

(3 marks)

Processes	Settings	Marks	Evidence required
Using an external hard disk drive or an additional virtual disk to Server02, implement a scheduled backup of the shared folders to run every hour to the second physical hard or external storage device		**3**	☑ print screen showing scheduled backup set
Confirm the backup has been taken successfully by restoring the contents of the backup **Note**: You might need to return to this step later to collect the required evidence			☑ print screens showing a successful backup ☑ print screens showing a successful restoration

Step E

(4 marks)

Processes	Settings	Marks	Evidence required
Using Server02, install **and** configure a **single** application service from the following list: • desktop deployment • media server • database server • IT helpdesk • web server • print server		**4**	☑ print screens showing the service being installed and configured
Prove the service has been tested and works			☑ print screens showing the service is running ☑ print screens showing the service being tested

Step F

(2 marks)

Processes	Settings	Marks	Evidence required
Create a remote connection from PC02 to Server01 **Note**: You are **not** permitted to domain join the computer		**2**	☑ print screens showing the remote connection process

Step G

(4 marks)

Processes	Settings	Marks	Evidence required
Implement a SNMP on all machines on the network		**4**	☑ print screens from PC01 and Server02 showing that SNMP has been enabled
Verify that SNMP data is being collected by the traps and can be viewed			☑ a series of print screens showing the SNMP data is being collected centrally

Step H

(10 marks)

Processes	Settings	Marks	Evidence required
Using policies, implement 5 rules that will make the domain joined PC01 more secure		**10**	☑ provide a short description of each policy and what it will achieve ☑ provide a print screen showing each of the policies created on Server01
Carry out testing to prove the policies have been applied correctly			☑ provide evidence of each policy applied on PC01

Step I

(7 marks)

Processes	Settings	Marks	Evidence required
Using the wireless device provided, integrate the device into your network		7	Provide print screen or photographic evidence of the following: ☑ set an IP address for the device ☑ connect to a wireless AP or other such device ☑ install the required drivers or management software ☑ configure the device with suitable settings ☑ evidence that SNMP data is being captured
Test that the device works and is accessible from any 2 machines			☑ a series of print screens and photographs showing connection and configuration of the wireless device

Document information

The T Level Technical Qualification is a qualification approved and managed by the Institute for Apprenticeships and Technical Education.

Copyright in this document belongs to, and is used under licence from, the Institute for Apprenticeships and Technical Education, © 2020-2023.

'T-LEVELS' is a registered trade mark of the Department for Education.

'T Level' is a registered trade mark of the Institute for Apprenticeships and Technical Education.

'Institute for Apprenticeships & Technical Education' and logo are registered trade marks of the Institute for Apprenticeships and Technical Education.

Owner: Head of Assessment Design

Change History Record

Version	Description of change	Approval	Date of Issue
v1.0	Published final version		May 2021
v1.1	NCFE rebrand.		January 2023