

Operating Systems

Virtual Windows Active Directory / Network Server Virtualization

Assessment Project

Programme: Bachelor of Science in Computing and
Information Technology

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Number Student: 2020303

Installing the network and setting up the network infrastructure

1. Servers correctly renamed as specified:

Rename the computer Web Server in Windows PowerShell.

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> hostname
WIN-53PQPFNG7T2
PS C:\Users\Administrator> Rename-Computer -NewName "Web2020303"
WARNING: The changes will take effect after you restart the computer WIN-53PQPFNG7T2.
PS C:\Users\Administrator> -Restart
```

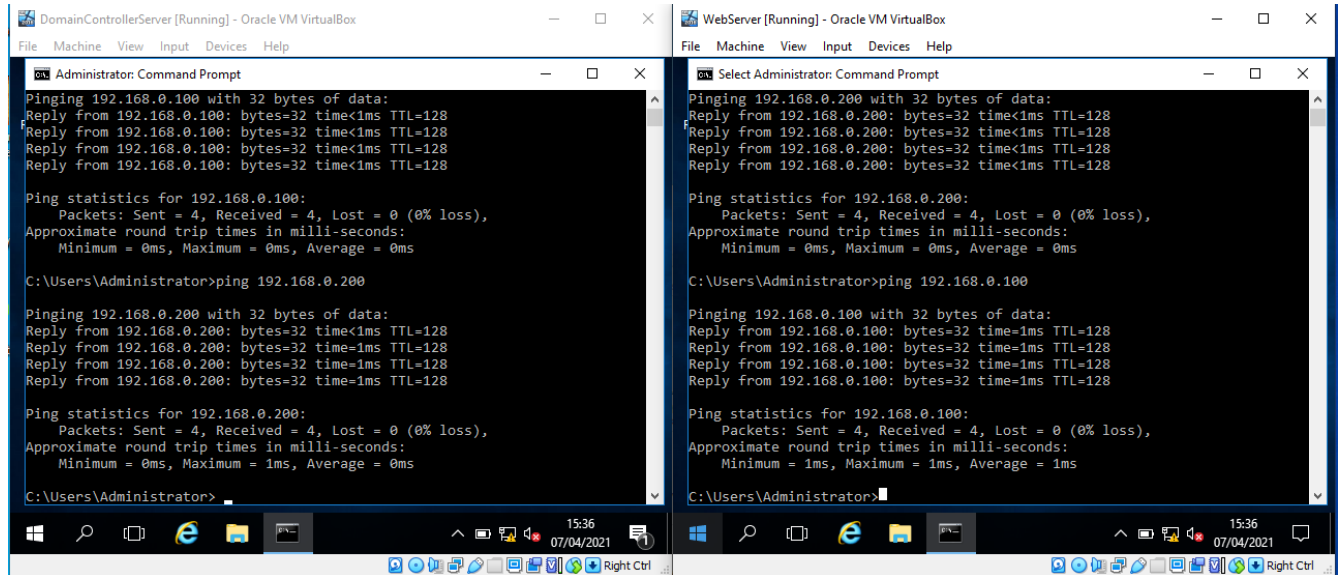
```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> hostname
Web2020303
PS C:\Users\Administrator> _
```

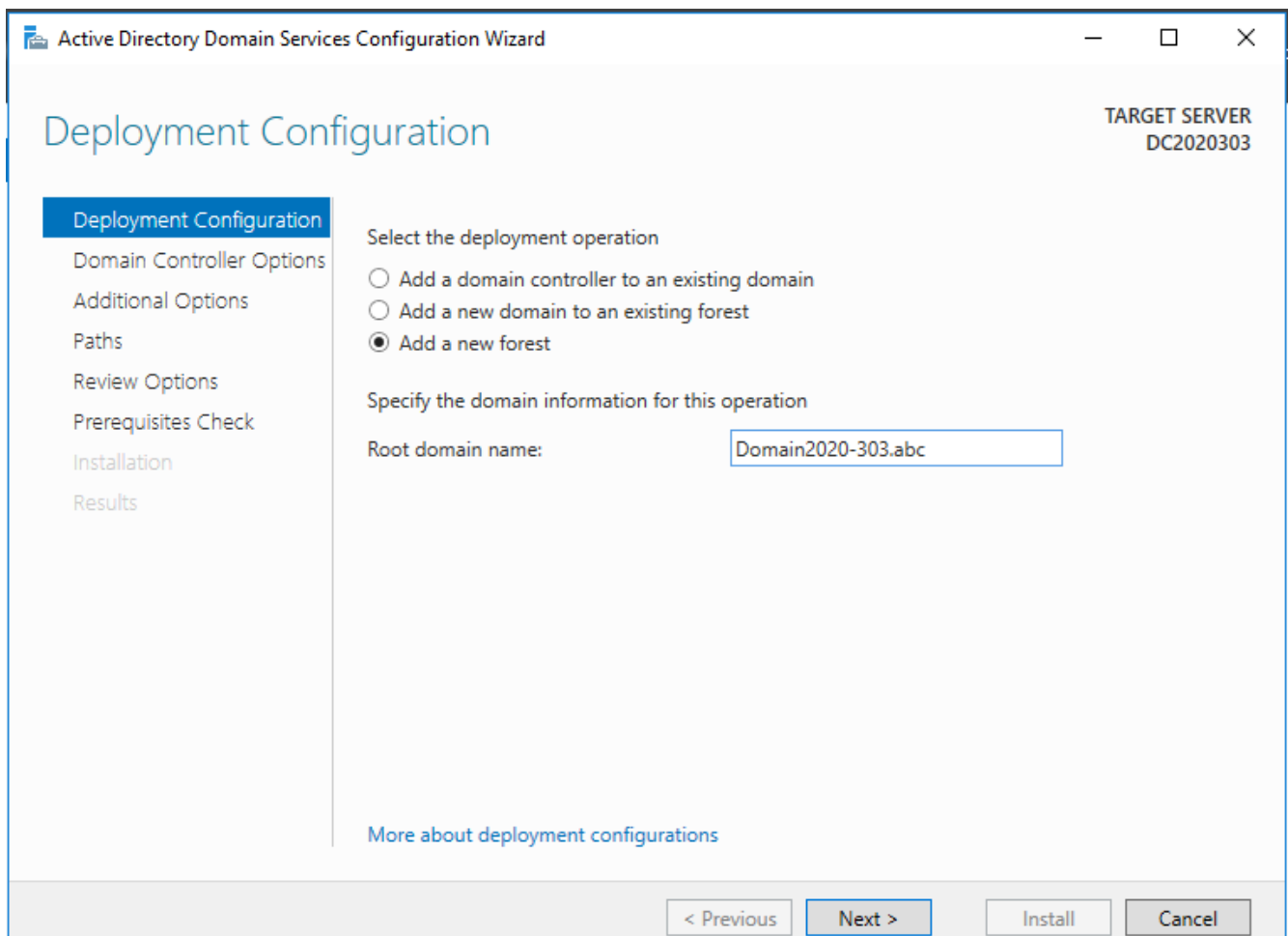
Rename the computer Domain Controller Server in Windows System Properties.

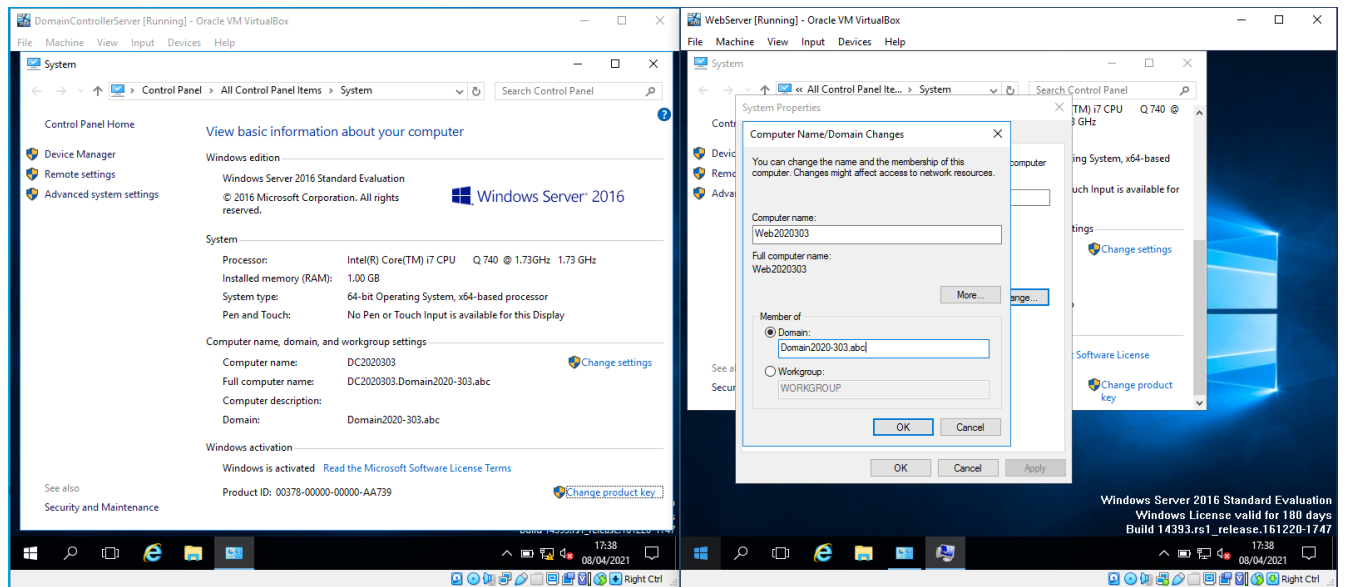
System	
Processor:	Intel(R) Core(TM) i7 CPU Q 740 @ 1.73GHz 1.73 GHz
Installed memory (RAM):	1.00 GB
System type:	64-bit Operating System, x64-based processor
Pen and Touch:	No Pen or Touch Input is available for this Display
Computer name, domain, and workgroup settings	
Computer name:	DC2020303 Change settings
Full computer name:	DC2020303
Computer description:	
Workgroup:	WORKGROUP

2. Setup static IP addresses as specified / check connectivity between the two computers:

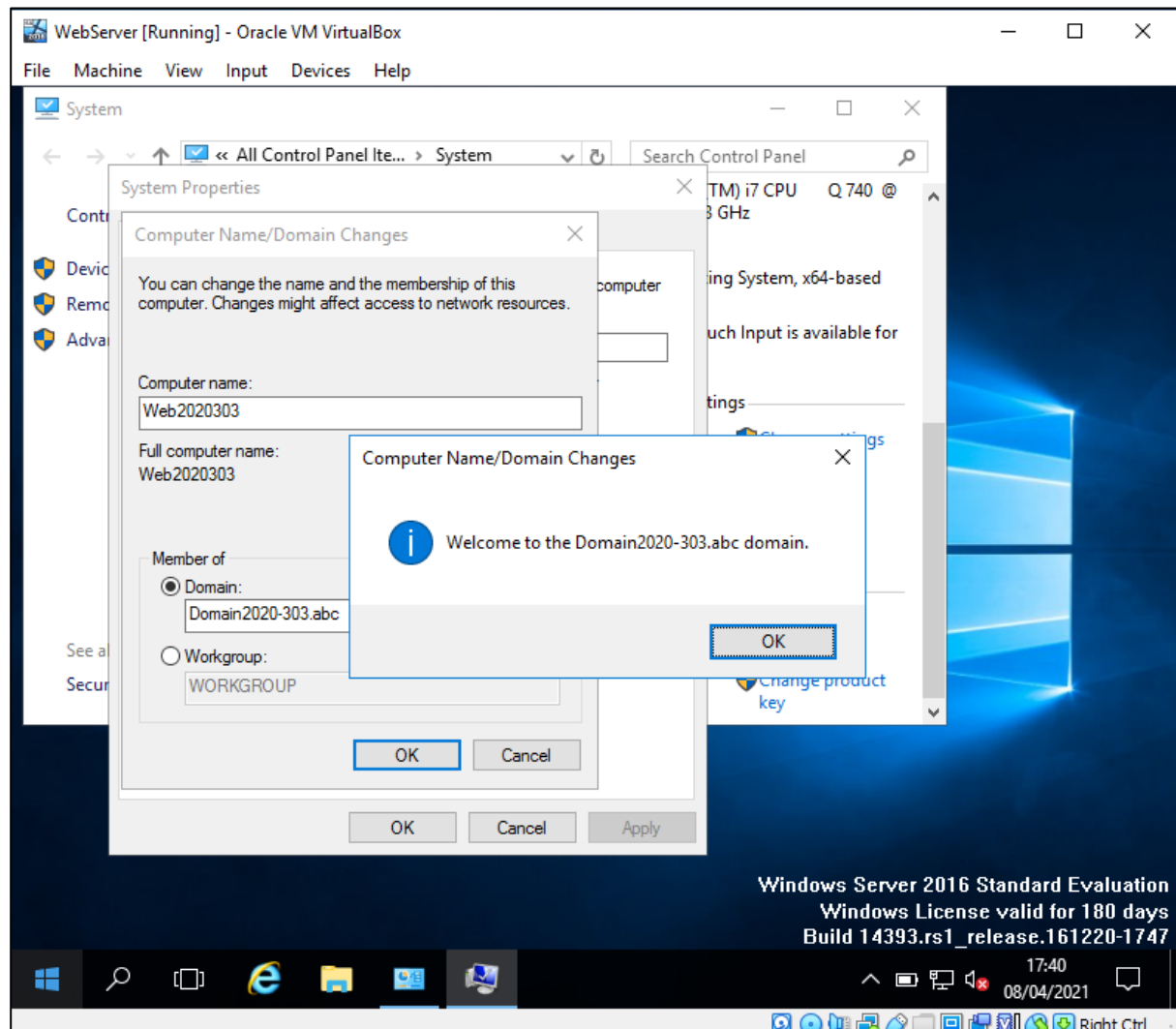


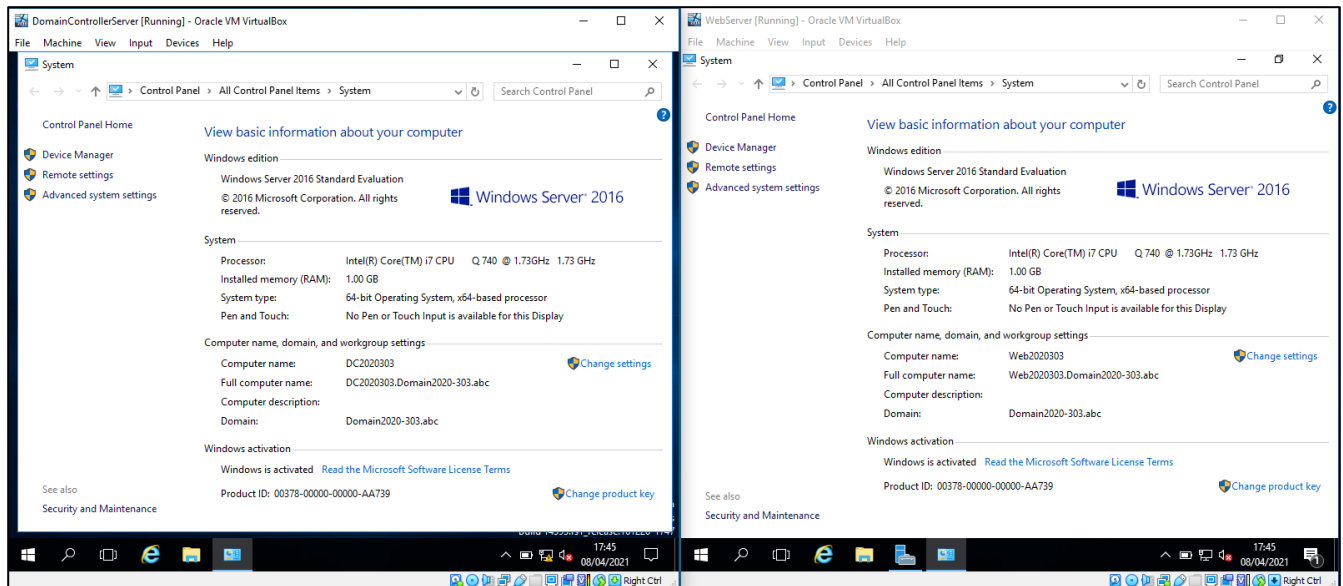
3. Convert server to Domain Controller as specified





4. Join Web to Domain as specified:





Setting up the resources and network users

1. Create two departmental Organisational Units and groups:

Active Directory Users and Computers	Name	Type	Description
Saved Queries	Accounting	Security Group...	
Domain2020-303.abc	Patrick Richardson	User	
Builtin	Barb Dwyer	User	
Computers	Cherry Pies	User	
Domain Controllers	Patrick J. Jones	User	
ForeignSecurityPrincipals	Patrick L. Johnson	User	
Managed Service Accounts			
Users			
Accounting-Dublin			
Sales-Dublin			

Active Directory Users and Computers	Name	Type	Description
Saved Queries	Sales	Security Group...	
Domain2020-303.abc	Claire Morris	User	
Builtin	Claire Galway	User	
Computers	Justin Case	User	
Domain Controllers	Debra J. Doran	User	
ForeignSecurityPrincipals	David R. Doran	User	
Managed Service Accounts			
Users			
Accounting-Dublin			
Sales-Dublin			

2. Create the 10 user accounts and add the users to the groups as specified:

Accounting Properties

GeneralMembersMember OfManaged By

Members:

Name	Active Directory Domain Services Folder
Barb Dwyer	Domain2020-303.abc/Accounting-Dublin
Chery Pies	Domain2020-303.abc/Accounting-Dublin
Patrick J. Jones	Domain2020-303.abc/Accounting-Dublin
Patrick L. Joh...	Domain2020-303.abc/Accounting-Dublin
Patrick Richar...	Domain2020-303.abc/Accounting-Dublin

Add...Remove

OKCancelApply

Sales Properties

GeneralMembersMember OfManaged By

Members:

Name	Active Directory Domain Services Folder
Claire Galway	Domain2020-303.abc/Sales-Dublin
Claire Morris	Domain2020-303.abc/Sales-Dublin
David R. Doran	Domain2020-303.abc/Sales-Dublin
Debra J. Doran	Domain2020-303.abc/Sales-Dublin
Justin Case	Domain2020-303.abc/Sales-Dublin

Add...Remove

OKCancelApply

3. Create two shared folders and apply permissions:

Accounting-Docs Properties

GeneralSharingSecurityPrevious VersionsCustomize

Object name: C:\Users\Administrator\Desktop\Accounting-Docs

Group or user names:

SYSTEM
Accounting (DOMAIN2020-303\Accounting)
Administrator
Administrators (DOMAIN2020-303\Administrators)

To change permissions, click Edit.

Edit...

Permissions for Accounting	Allow	Deny
Full control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modify	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read & execute	<input checked="" type="checkbox"/>	<input type="checkbox"/>
List folder contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>

For special permissions or advanced settings, click Advanced.

Advanced

OKCancelApply

Permissions for Accounting-Docs

Share Permissions

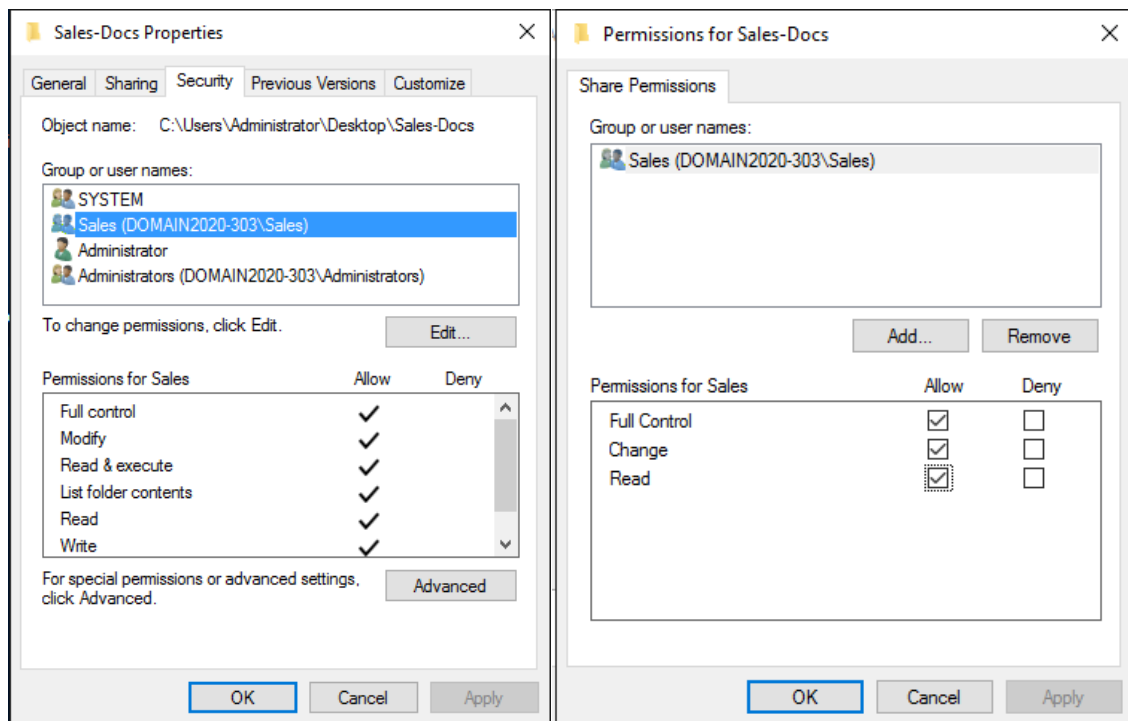
Group or user names:

Accounting (DOMAIN2020-303\Accounting)
--

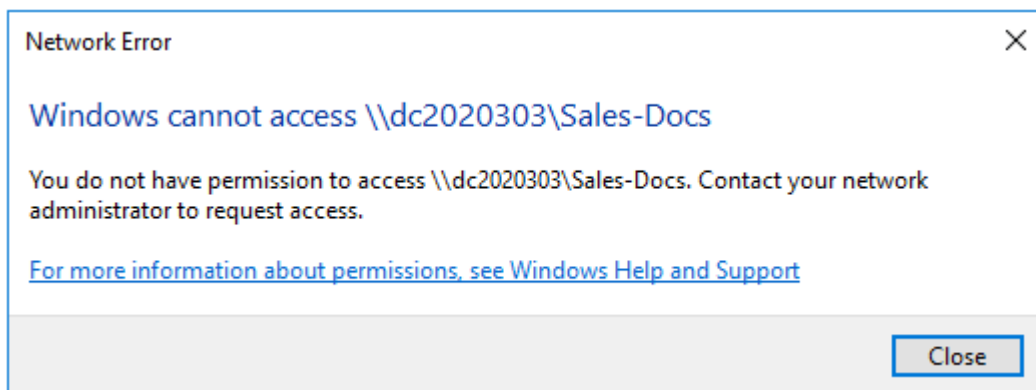
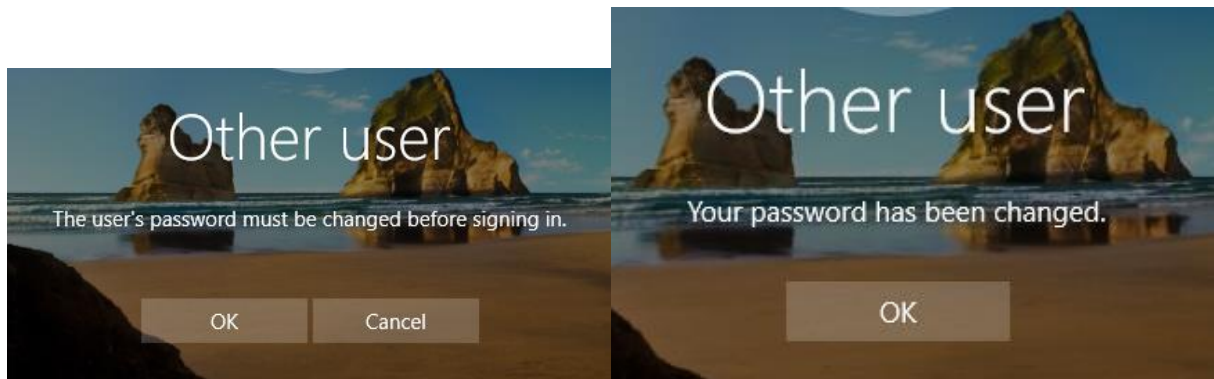
Add...Remove

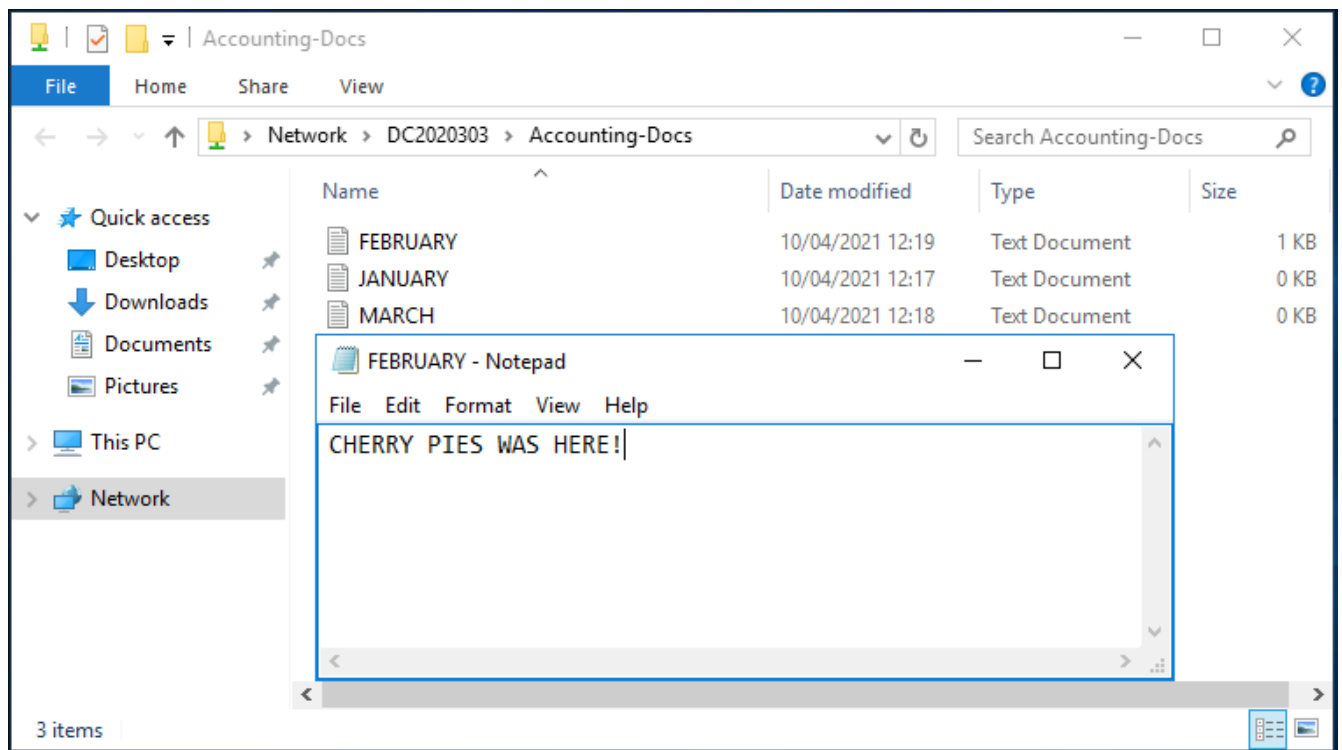
Permissions for Accounting	Allow	Deny
Full Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Change	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>

OKCancelApply

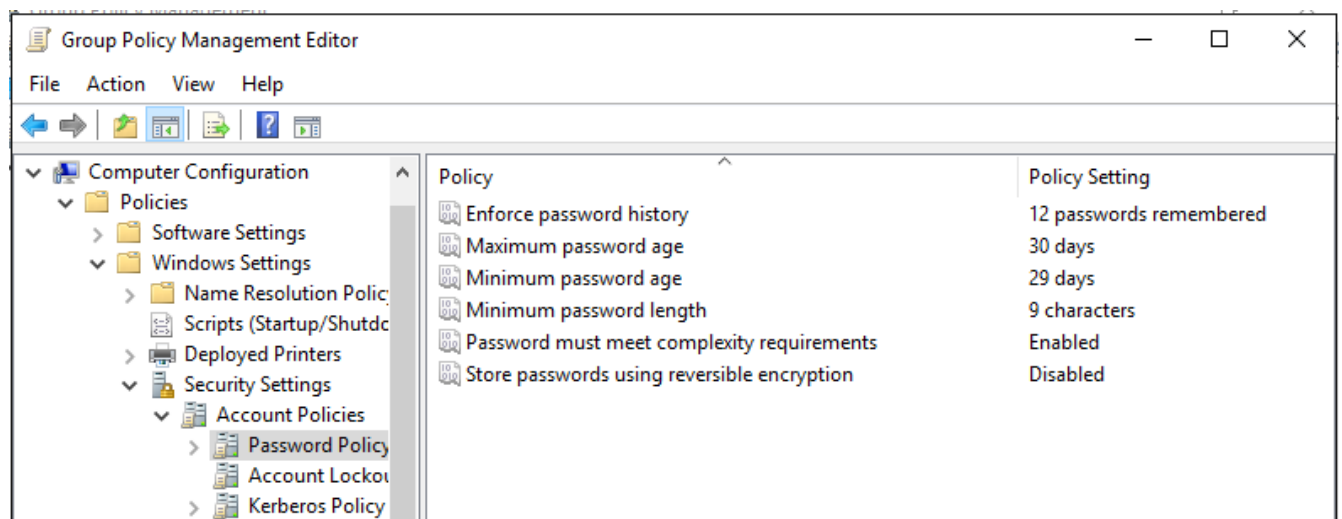


4. Test permissions for both of the resources





5. Apply the password policy as specified:



Group Policy Management Editor

File Action View Help



- Computer Configuration
 - Policies
 - Software Settings
 - Windows Settings
 - Name Resolution Policy
 - Scripts (Startup/Shutdown)
 - Deployed Printers
 - Security Settings
 - Account Policies
 - Password Policy
 - Account Lockout Policy
 - Kerberos Policy

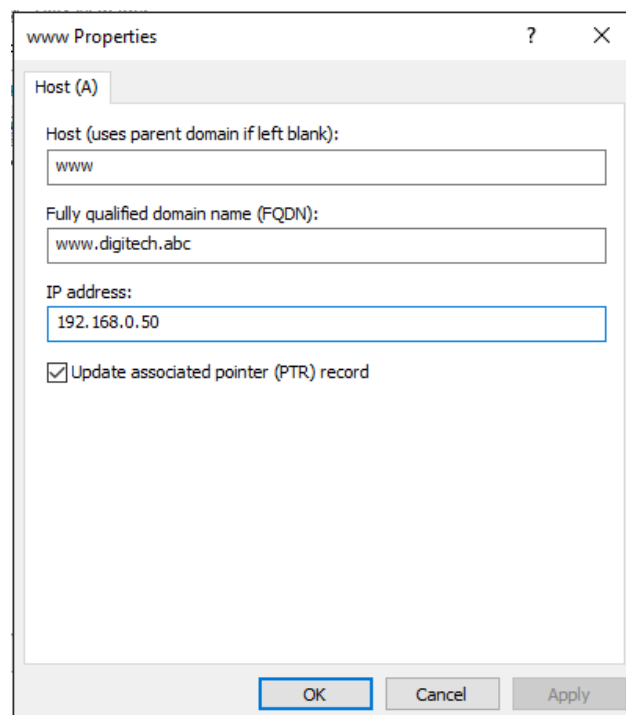
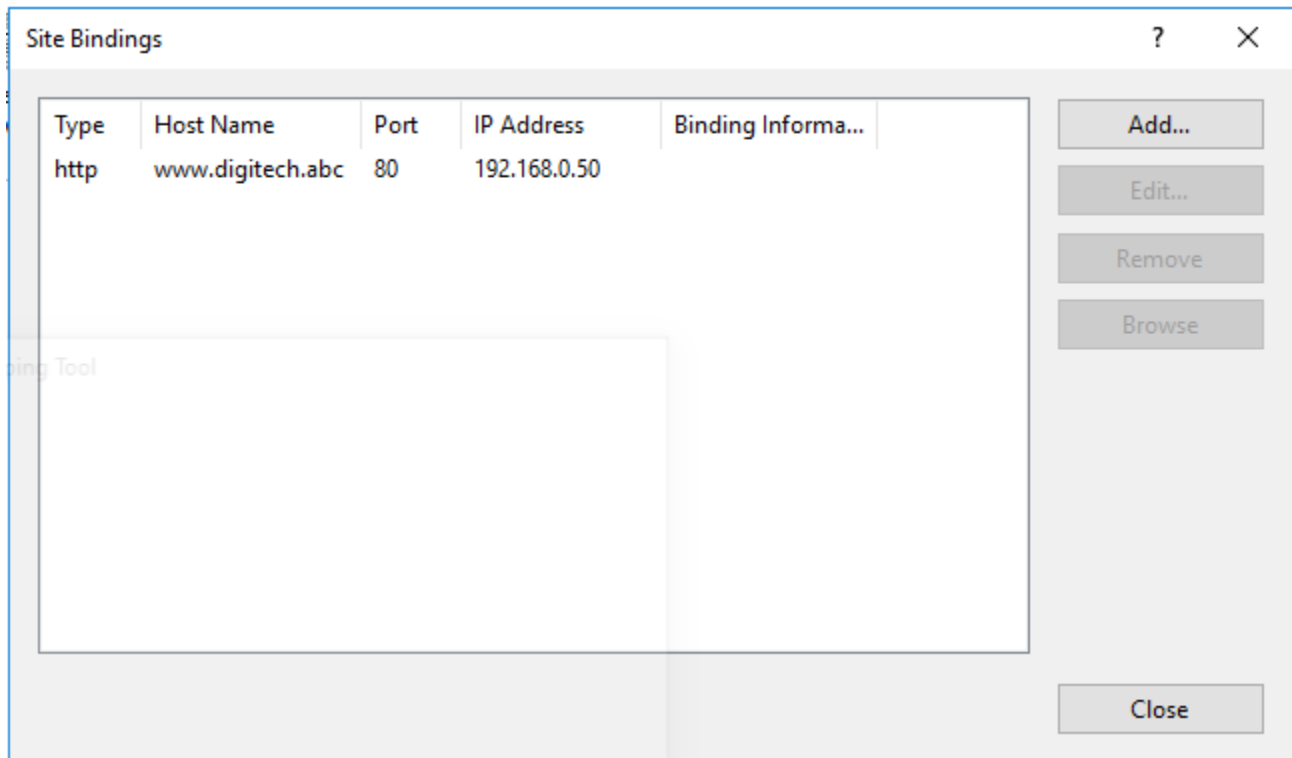
Policy

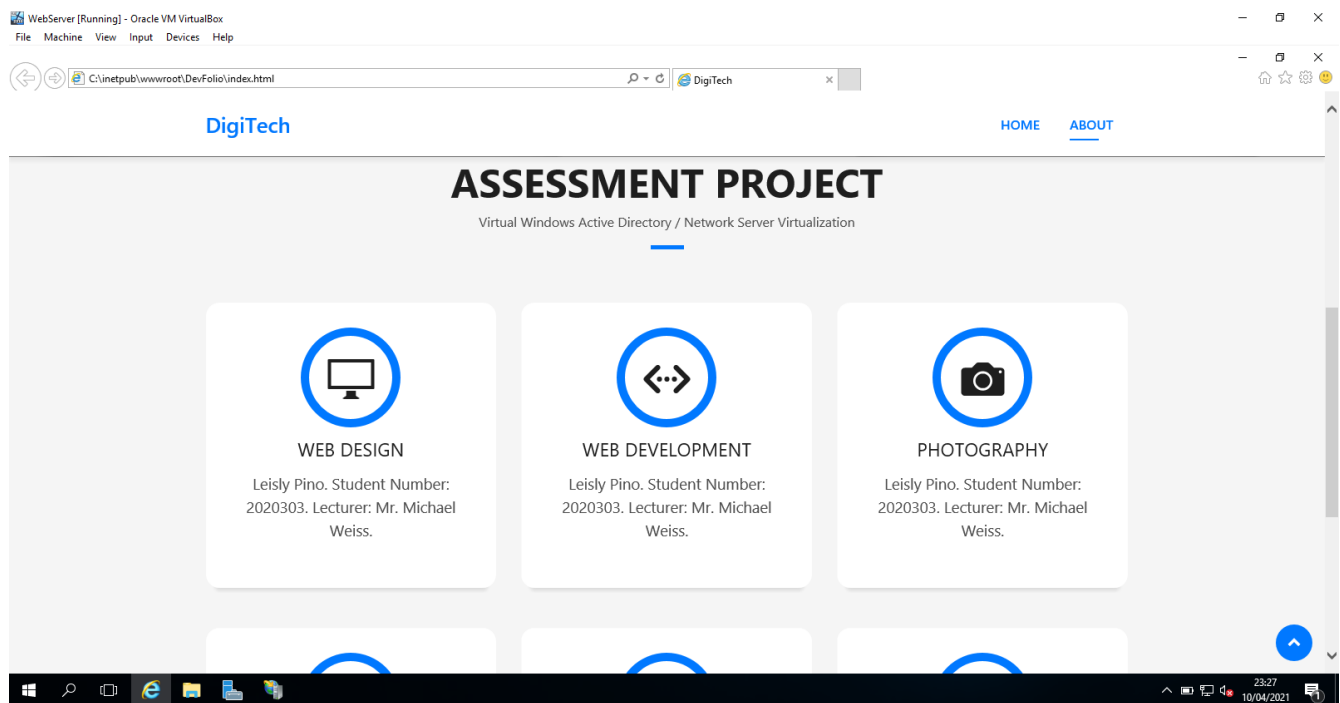
- Account lockout duration
- Account lockout threshold
- Reset account lockout counter after

Policy Setting

- 60 minutes
- 4 invalid logon attempts
- 60 minutes

Setting up and testing a simple web site





Setting Up a DHCP Server for the Domain

```
Administrator: Command Prompt
Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : Domain2020-303.abc
    Link-local IPv6 Address . . . . . : fe80::fcf4:abf8:a048:2caa%6
    IPv4 Address. . . . . : 192.168.0.50
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : station
    Link-local IPv6 Address . . . . . : fe80::fc47:3fef:82c2:a005%4
    IPv4 Address. . . . . : 10.0.3.15
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.0.3.2

Tunnel adapter isatap.station:

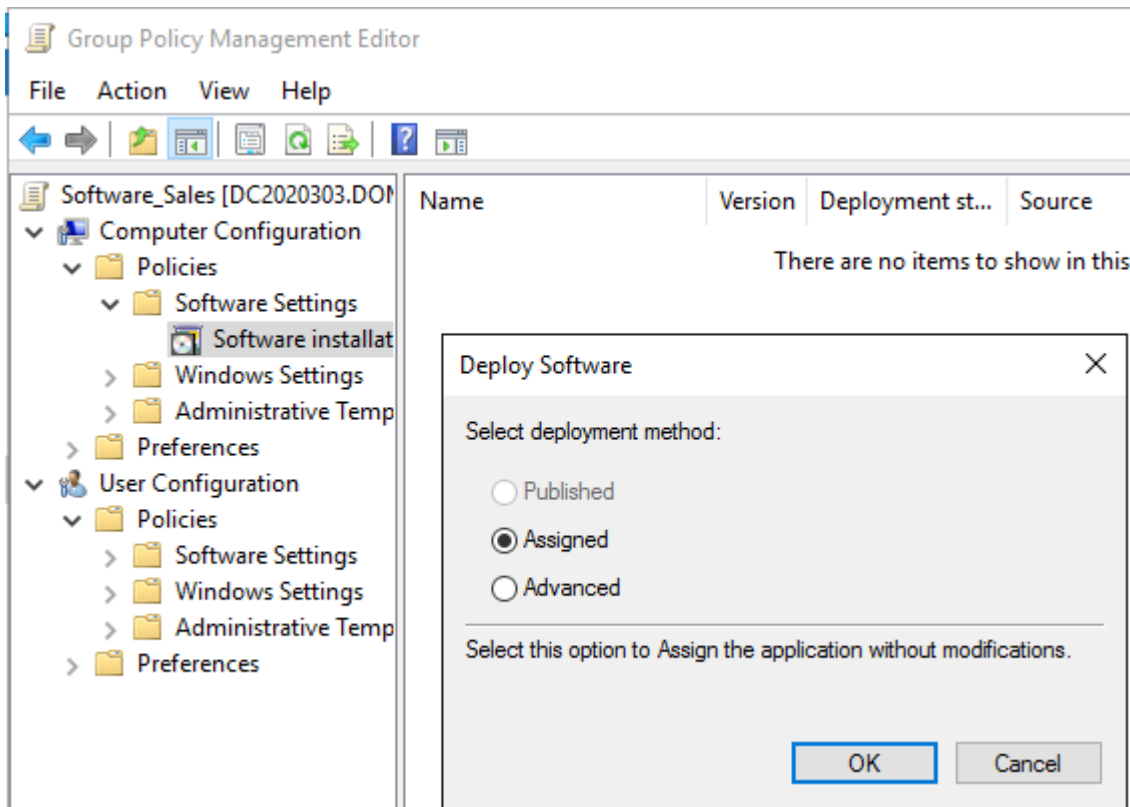
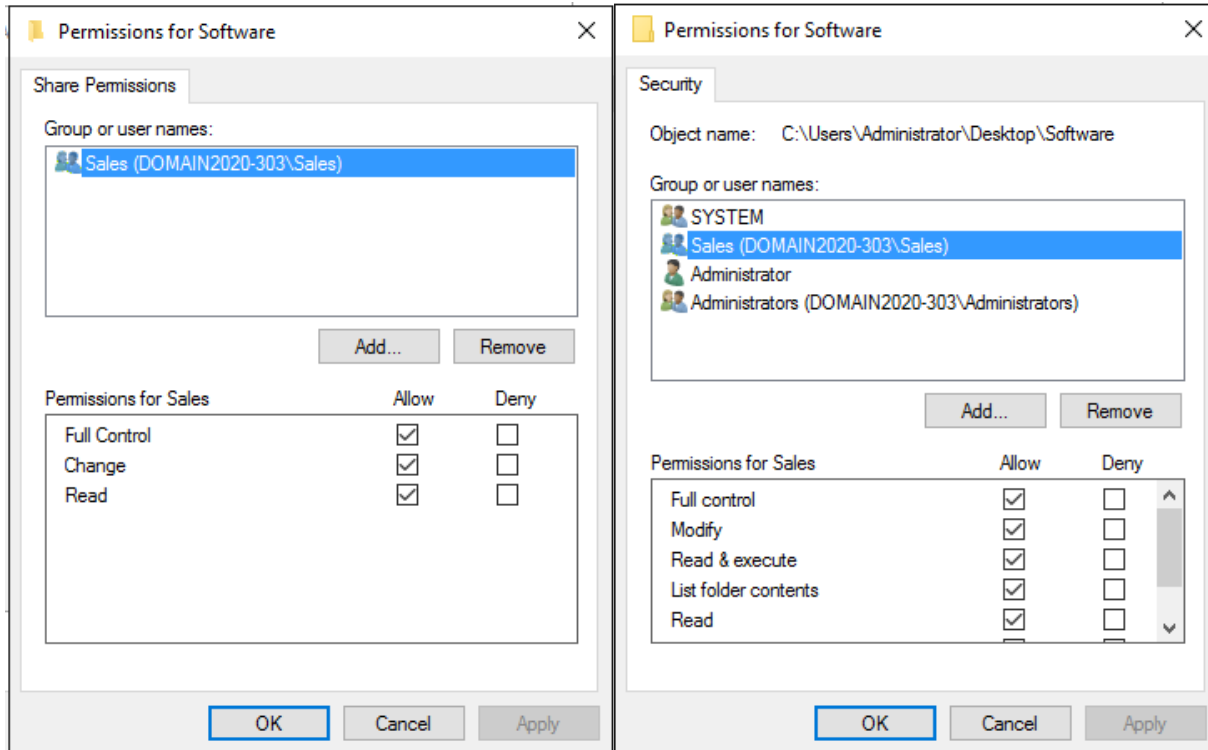
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : station

Tunnel adapter isatap.Domain2020-303.abc:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : Domain2020-303.abc

C:\Users\Administrator>
```

Correctly set up and assigned Notepad++ to Sales user



Notepad++ (64-bit x64) Properties

General Deployment Upgrades Categories Modifications Security

Deployment type

☐ Published

☒ Assigned

Deployment options

☒ Auto-install this application by file extension activation

☒ Uninstall this application when it falls out of the scope of management

☐ Do not display this package in the Add/Remove Programs control panel

☐ Install this application at logon

Installation user interface options

☐ Basic

☒ Maximum

Advanced...

OK Cancel Apply

New GPO

Name:

Software_Sales

Source Starter GPO:

(none)

OK Cancel

