

# Configuring File Servers and Active Directory with Domain Services for Windows-Lab

OES11

**Novell Training Services**

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## Section 1 Create a Cross Forest Trust between a Domain Services for Windows Domain and a Microsoft Active Directory

Goal: Create a cross forest trust

Requirements: Configure reverse lookup for the win2008r2 server  
Configure DNS forwarders  
Using MMC create a cross forest trust

### Resource Information:

Active Directory domain name: ad.com  
AD server: win2008r2  
AD server IP address: 127.17.0.31  
DSfW domain name: da.com  
DSfW server: oes11-dsfw1.oessystemobjects.da  
DNS server object: DNS\_oes11-dsfw1  
DSfW server IP address: 127.17.0.21  
eDir server: oes11-edir.da  
NDS server object: DNS\_oes11-edir  
eDir server IP address: 127.17.0.11  
Reverse lookup zone 172.17.0

Exercise - Add the win2008r2 server to the 172.17.0 Reverse Lookup Zone

1. With oes11-edir powered down, select VM > Snapshot > Create Trust; then
2. When prompted to open the snapshot, select Yes.
3. Power on the virtual machine.
4. Log in as root with the password of novell
5. With oes11-dsfw1 powered down, select VM > Snapshot > Create Trust; then
6. When prompted to open the snapshot, select 'Yes'.
7. Log in as root with the password of novell
8. With Windows Server 2008 powered down, select VM > Snapshot > Create Trust; then
9. When prompted to open the snapshot, select Yes.
10. Log on to the windows server as AD\Administrator with the password of novell
11. On the oes11-eDir server login dns console
  - a) Server Address: 172.17.0.11
  - b) Port: 636
  - c) User Name: cn=admin,o=da
  - d) Password: novell
  - e) Click ok
12. In the DNS Service window of the DNS/DHCP Java-based Management Console utility, select the reverse lookup zone 172.17.0
13. Click Create on the tool bar.
14. Select Create New Resource Record and specify the DNS configuration parameters as follow
  - a) Enter 31 for IP address of the win2008r2 server
  - b) Specify the PTR radial button
  - c) Enter the Host Name and Domain name. win2008r2 and ad.com
  - d) Click Create
15. Either wait up to 15 minutes for dynamic reconfigure to update the db file or restart DNS by using the rcnovell-named start command.

## OES11-Configuring File Servers and Active Directory with Domain Services for Windows / Lab

Exercise - Configure a DNS forwarder on the DSfW DNS server to forward any DNS queries for the Active Directory domain to the Active Directory domain's DNS server.

1. In the DNS Service window of the DNS/DHCP Java-based Management Console utility, click Create on the tool bar.
2. Select Zone from the Create New DNS Object dialog box, then click OK.
3. Select Create New Zone and specify the DNS configuration parameters as follows:
  - a) Specify the eDirectory context for the zone or browse to select it; that is, the container containing the DNS related objects.
  - b) Specify a name for the zone; that is, the domain name of the Active Directory forest (ad.com).
  - c) Select the Zone Type as Forward.
  - d) Select a DSfW DNS server from the Assign Authoritative DNS Server drop-down list. This is the DNS\_oes11-dsfw1.
  - e) Click Create. A message indicates that the new forward zone has been created.
4. Select the ad.com zone.
5. Click the Forwarding List tab. This tab displays a list of all forwarding IP addresses.
6. Click Add to add the Forwarder to the ad.com domain.
  - a) Select the Forwarder Address option and enter 127.17.0.31, the IP address of the Active Directory forest's DNS server.
  - b) Click OK.
7. To save the changes done to the nds, click the Save button.
8. Either wait up to 15 minutes for dynamic reconfigure to update the db file or restart DNS by using the rcnovell-named start command.
9. On the Windows Server 2008 VM click start > Administrative tools > DNS
10. Right-click on the win2008r2 object and select properties
11. Click the forwarders tab
12. Verify the oes11dsfw1 is listed as a forwarder. This configuration will forward all queries the win2008r2 server can not resolve to the oes11dsfw1 server.

Exercise - Verify the DNS configuration by trying to resolve the Active Directory domain and its DNSSRV records using nslookup, as follows:

1. Perform the following tasks on the oes11-dsfw1 server
  - a) Start a terminal window by clicking on the gnome terminal icon
  - b) In the terminal window type nslookup 172.17.0.31
  - c) nslookup ad.com
  - d) nslookup -query=any \_ldap.\_tcp.dc.\_msdcs.ad.com
  - e) dig ad.com
  - f) dig \_ldap.\_tcp.dc.\_msdcs.ad.com
2. Perform the following tasks on the Windows server
  - a) Start a command prompt by clicking start > Command Prompt
  - b) In the command prompt type nslookup 172.17.0.21
  - c) nslookup da.com
  - d) nslookup -query=any \_ldap.\_tcp.dc.\_msdcs.da.com

Exercise – Create a cross forest trust between AD and DSfW

1. On the Windows server click start > Administrative Tools > Active Directory Domains and Trusts.
2. Right-click Active Directory Domains and Trust, then select Raise Forest Level.
3. The current forest function level should be Windows Server 2003

- Do not raise the level to 2008
4. Right-click the AD domain, then select Raise Domain Functional Level.
  5. The current domain function level should be Windows Server 2003  
Do not raise the level to 2008
  6. Right-click the AD domain, then select Properties.
  7. Select New Trust from the Trusts tab, then click OK.
  8. Click Next to start creating a new trust.
  9. Specify the DNS name (or NetBIOS name) of the DSfW forest, then click Next.
  10. Select Forest trust, then click Next.
  11. To select the direction of trust, Two-way to create a two-way forest trust, then click Next.
  12. Select Both this domain and the specified domain and click Next.
  13. Specify the user name and password of the DSfW domain administrator, then click Next.
  14. Select Forest-wide authentication to authorize users to use resources in the local forest or those identified by the administrator, then click Next.
  15. Select Forest-wide authentication to authenticate DSfW forest users to use resources in the ad.com forest or those identified by the administrator, then click Next.
  16. Review the trust settings and complete the creation of trust by clicking Next.
  17. The Trust Creation Complete screen should display that the trust relationship has successfully been created. Click Next.
  18. Select Yes, confirm the outgoing trust, then click next.
  19. Select Yes, confirm the incoming trust, then click next.
  20. If the trust successfully is created, the Completing the New Trust Wizard should appear, click finish.

Exercise - Verifying the Trust by logging in to the AD domain from a workstation in the DSfW domain.

1. With winxp vm powered down, select VM > Snapshot > Start Here; then
2. when prompted to open the snapshot, select Yes.
3. power on the virtual machine.
4. log in as gecko with the password of novell
5. Join workstation to da.com domain
  - a) Click on control panel
  - b) Click on Network Connections
  - c) Right click on Local Area Connection and select properties
  - d) Select Internet Protocol and click Properties
  - e) For the Preferred DNS server enter 172.17.0.21, click OK, and click Close
  - f) Right click on My Computer and select properties
  - g) Click Computer Name tab, then click Change
  - h) Put winxp1 in the Computer Name field
  - i) Select Domain
  - j) Specify the domain name da.com
  - k) Click OK
  - l) Enter Administrator in the User Name field
  - m) Enter the password of novell in the Password Field
  - n) Click OK
  - o) On success, will see message stating Welcome to the da.com domain
  - p) Then will be prompted to restart the computer, click OK to restart the computer
  - q) After restarting the computer enter Administrator for User Name
  - r) Password of novell
  - s) Click Options
  - t) Select DA domain from the drop down list and login
  - u) A local profile will be created for the user
6. Create a user with MMC in the ad.com domain
  - a) On the win2008r2 server click Start > Administrative Tools > Active Directory Users and Computers
  - b) Expand the domain by clicking on the ad.com domain object
  - c) Select the Users container
  - d) Click the new user button in the task bar

- e) At the prompts, enter the name and password information for the user
- f) Example:
  - First name: aduser
  - User logon name: aduser
  - Click next and enter a password of Novell1
  - Uncheck User must change password at next logon
- 7. Log on to the Windows machine that is joined to the Domain Services for Windows domain with the newly created Active Directory domain user principal name.
  - a) On the winxp vm log off as Administrator
  - b) Enter aduser for User Name
  - c) Password of Novell1
  - d) Click Options
  - e) Select AD domain from the drop down list and login
  - f) A local profile will be created for the user

## Section 2 Novell CIFS and Domain Services for Windows

Objective:        Install Novell CIFS  
                  Create a user with MMC  
                  Create a GPO  
                  Link the newly created GPO  
                  Modify the newly created GPO  
                  Login with the newly created user and GPO

Requirements:    oes11-edir virtual machine  
                  oes11 dsfw1 virtual machine  
                  winxp virtual machine

Resource Information:

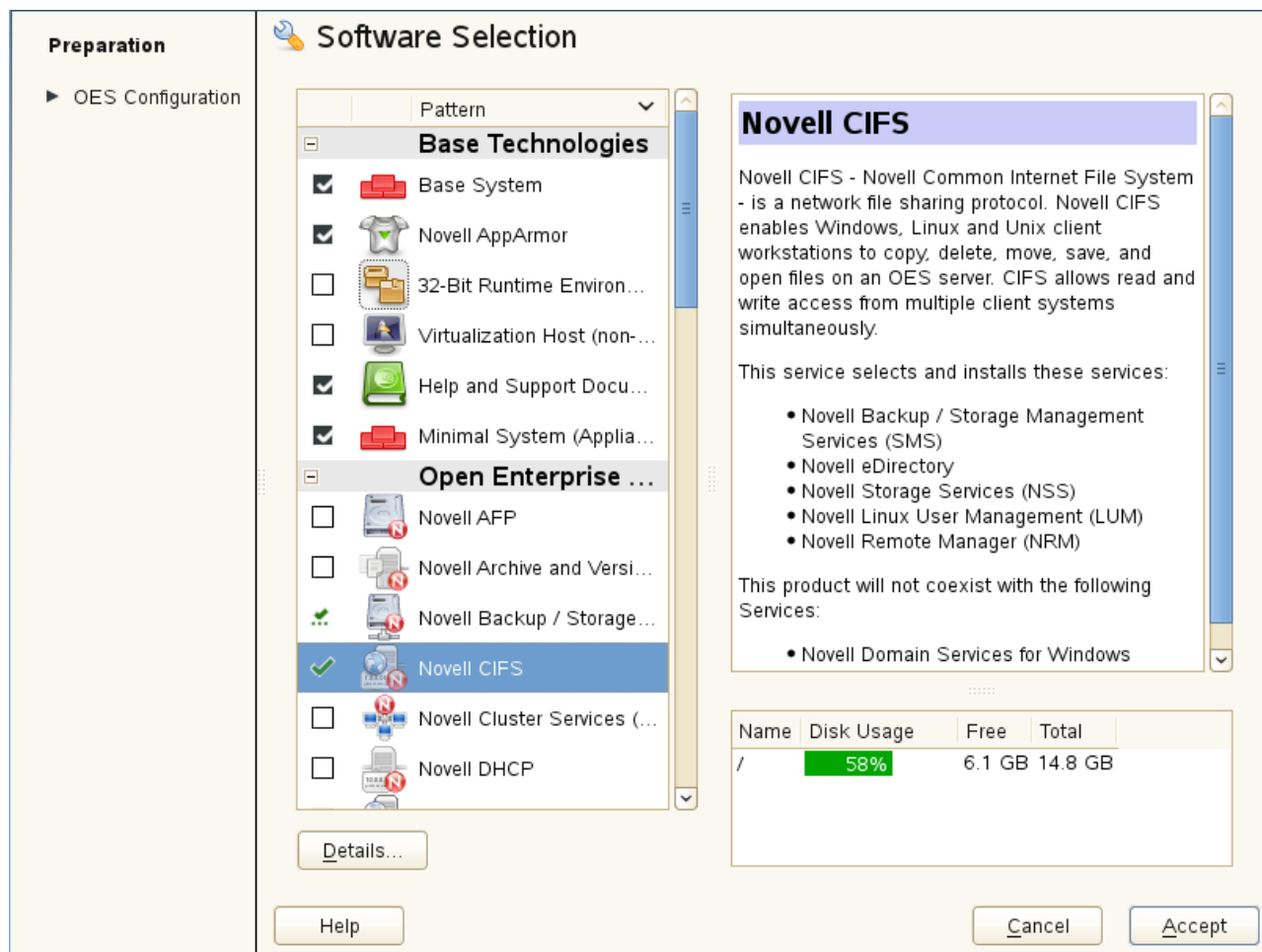
Domain name: da.com  
Domain mapped to: o=da  
Tree = DA-TREE  
admin: cn=admin.o=da  
admin passwd: novell  
administrator passwd: novell  
eDir server: 172.17.0.11 oes11-edir.da.com  
PDC DSfW server: 172.17.0.21 oes11-dsfw1.oessystemobjects.da.com  
winxp: 172.17.0.101  
DNS server: 171.17.0.21  
iManager server: 171.17.0.11

**Exercise – Install Novell CIFS**

In this exercise you will Install Novell CIFS, and NSS

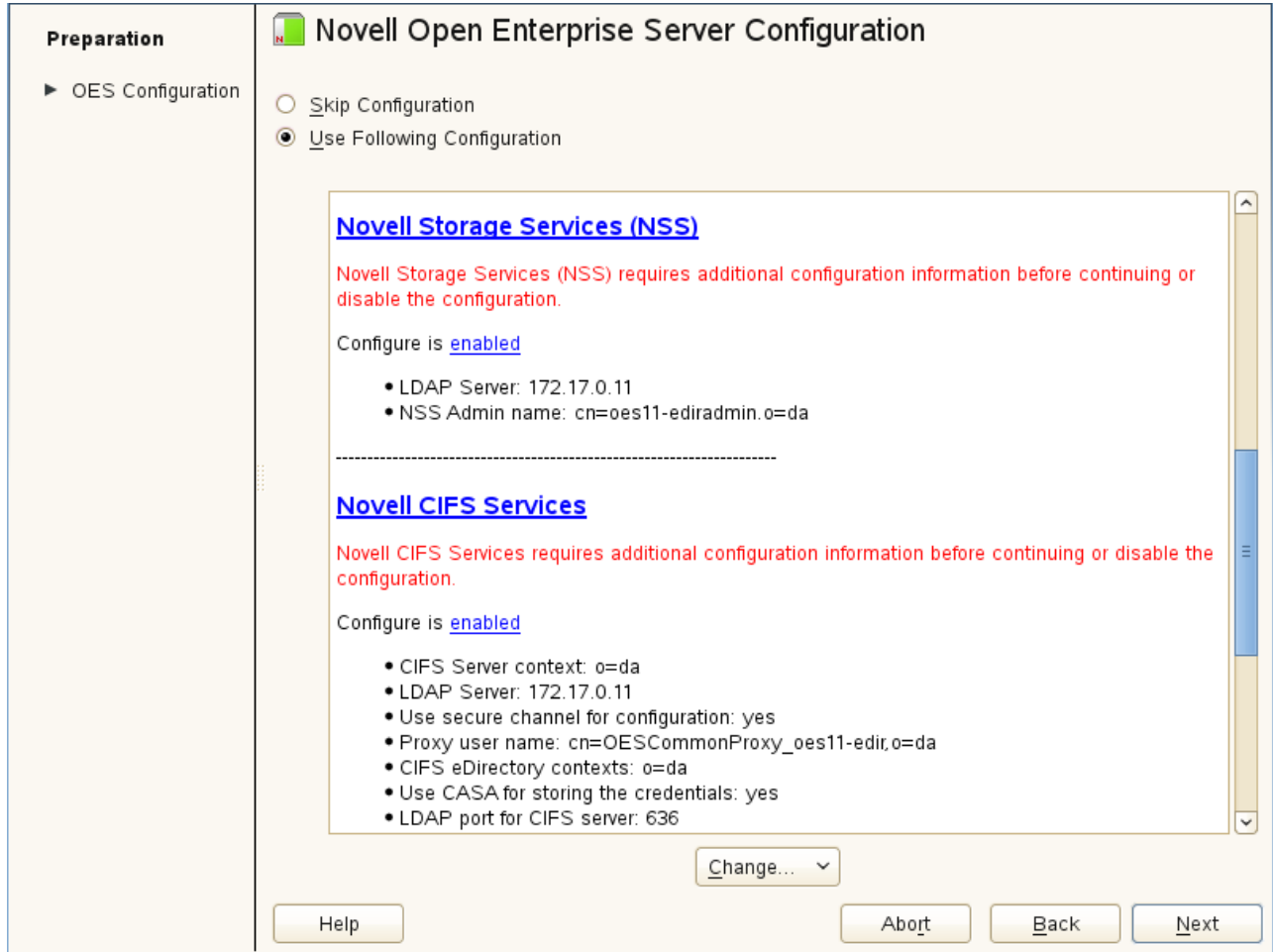
**Install Novell CIFS and NSS on oes11-eDir**

1. With oes11-edir powered down, select VM > Snapshot > Install CIFS; then
2. When prompted to open the snapshot, select Yes.
3. Power on the virtual machine.
4. Log in as root with the password of novell
5. With oes11-dsfw1 powered down, select VM > Snapshot > Install CIFS; then
6. When prompted to open the snapshot, select 'Yes'.
7. Log in as root with the password of novell
8. Start the install by clicking **computer** > **Yast** > **OES Install Configuration** > select **Novell CIFS** > click **Accept**





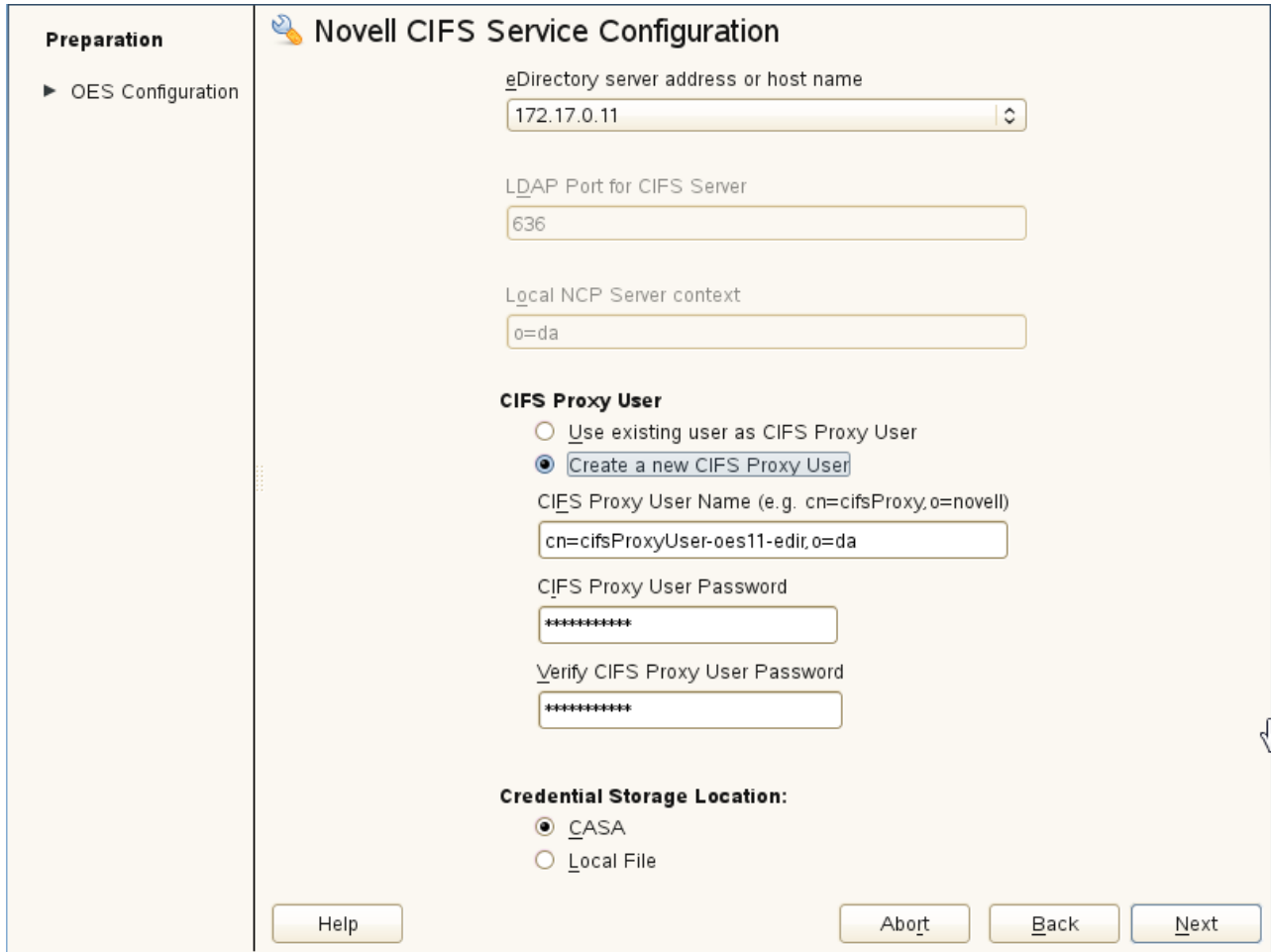
9. In the Novell Open Enterprise Server Configuration screen click **Novell CIFS Services**



10. Enter the password of **novell** for admin.da

The screenshot shows the 'Novell CIFS Service Configuration' window. On the left, a sidebar contains 'Preparation' and 'OES Configuration'. The main area has several input fields: 'eDirectory server address or host name' (172.17.0.11), 'LDAP Port for CIFS Server' (636), 'Proxy User' (empty), 'CIFS Proxy User Name (e.g. cn=cifsProxy,o=novell)' (cn=OESCommonProxy\_oes11-edir,o=da), 'CIFS Proxy User Password' (masked with asterisks), and 'Verify CIFS Proxy User Password' (masked with asterisks). At the bottom, there are radio buttons for 'Credential Storage Location': 'CASA' (selected) and 'Local File'. Navigation buttons 'Help', 'About', 'Back', and 'Next' are at the bottom. A 'YaST2' dialog box is overlaid in the center, displaying 'eDirectory Tree: DA-TREE', 'Admin User: cn=admin,o=da', and a password prompt 'Please enter the admin password:' with a masked input field. The dialog has 'OK' and 'Cancel' buttons.

11. Select the **Create a new CIFS Proxy User**, enter a password of **novell**, and click **Next**



The image shows a 'Novell CIFS Service Configuration' dialog box. On the left is a 'Preparation' sidebar with 'OES Configuration' selected. The main area contains several input fields: 'Directory server address or host name' (172.17.0.11), 'LDAP Port for CIFS Server' (636), and 'Local NCP Server context' (o=da). Under the 'CIFS Proxy User' section, the 'Create a new CIFS Proxy User' radio button is selected. The 'CIFS Proxy User Name' field contains 'cn=cifsProxyUser-oes11-edir,o=da'. The 'CIFS Proxy User Password' and 'Verify CIFS Proxy User Password' fields both contain '\*\*\*\*\*'. At the bottom, the 'Credential Storage Location' section has the 'CASA' radio button selected. Navigation buttons for 'Help', 'Abort', 'Back', and 'Next' are located at the bottom of the dialog.

**Preparation**

- ▶ OES Configuration

**Novell CIFS Service Configuration**

Directory server address or host name  
172.17.0.11

LDAP Port for CIFS Server  
636

Local NCP Server context  
o=da

**CIFS Proxy User**

- Use existing user as CIFS Proxy User
- Create a new CIFS Proxy User

CIFS Proxy User Name (e.g. cn=cifsProxy,o=novell)  
cn=cifsProxyUser-oes11-edir,o=da

CIFS Proxy User Password  
\*\*\*\*\*

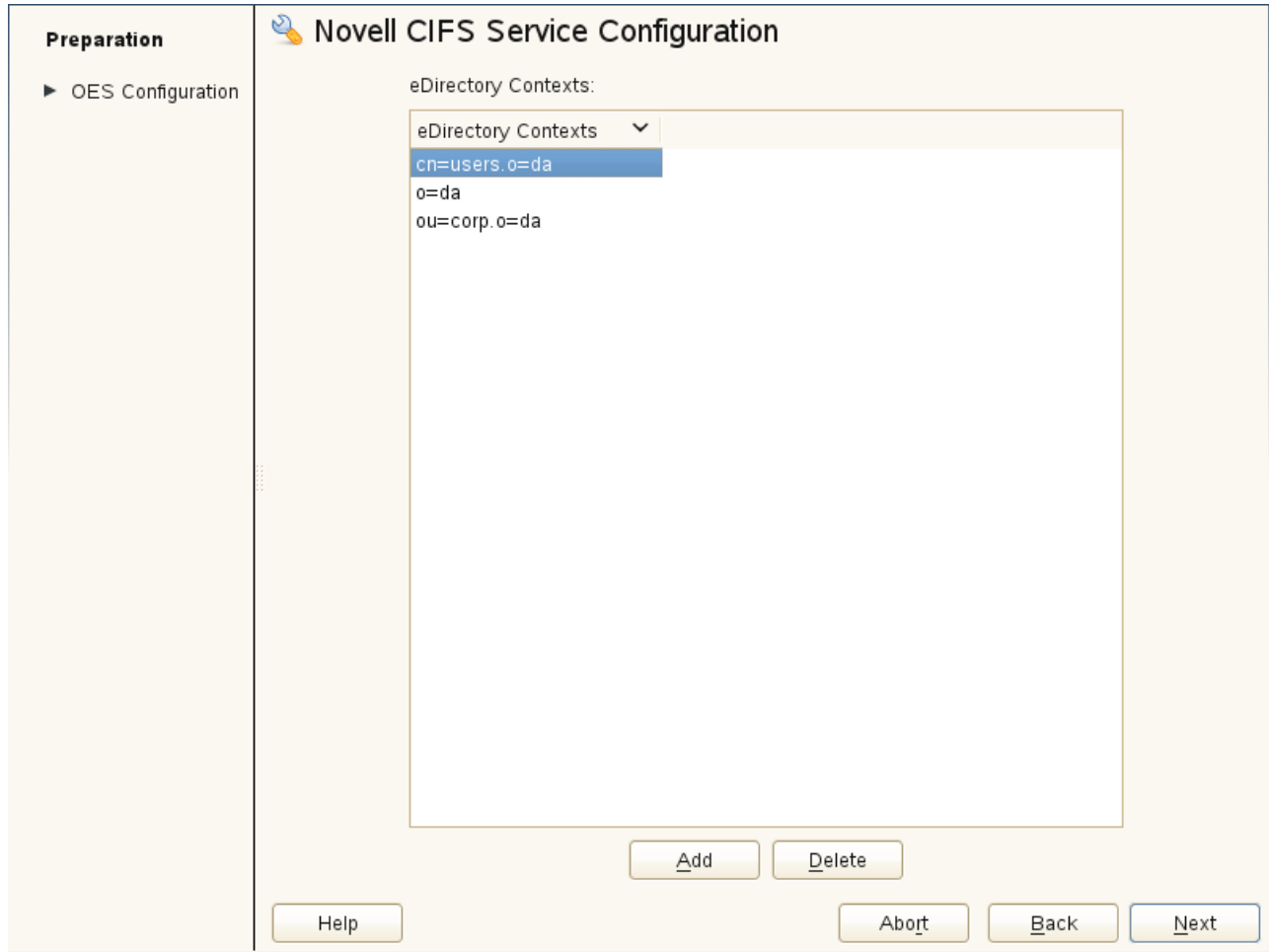
Verify CIFS Proxy User Password  
\*\*\*\*\*

**Credential Storage Location:**

- CASA
- Local File

Help Abort Back Next

12. The Context of all users intending to access the CIFS share has to be listed. Add the **ou=corp.o=da** and **cn=users.o=da**. Click **Next** twice to finish the installation of CIFS and NSS.



### **Exercise – Create a NSS Volume**

In this exercise you will use nssmu to create a nss volume in preparation to create a CIFS share

#### **Create a NSS Volume**

1. Open a terminal and type `nssmu`.
2. First we need to initialize a device, in the nssmu select **Devices** > select the **sdb** device > **F3** > **Yes** > **GPT** > Press **Esc** once to exit back to the main NSSMU menu.
3. Create a pool by selecting **Pools** > press the **insert** key > name the pool **DATA\_POOL** > select the **sdb** device > press **enter** twice > **F3** to accept and apply the settings > Press **Esc** once to exit back to the main NSSMU menu.
13. Create a volume by selecting **Volumes** > **insert** > name the volume **DATA\_NSS** and press **enter** > Select **No** for encryption > select **DATA\_POOL** > Press **Esc** twice to exit back to the main NSSMU menu.

### **Exercise – Set a CIFS Search Context, create a CIFS share, enable WINS**

In this exercise you will use iManager to set a CIFS search context for the airport container, verify the CIFS share is created, start and stop Novell CIFS, and set a WINS server

#### **Create a CIFS Search Context**

1. In iManager > *Roles and Tasks*, click *File Protocols* > *CIFS*.
2. Click the *Browse* icon next to the *Server* field, then browse to and select the **oes11-edir** server.
3. Click the *Context* tab.
4. Click *Add*.
5. Browse to and select the **Airport** container, then click *OK*.

#### **Making Novell CIFS Shares Available to CIFS Users**

1. Click the *Shares* tab.
2. Verify the **DATA\_NSS** share is listed,
3. Start and stop CIFS by Click the *General* tab, then click *Stop*. The service status changes to *Stopped*.
4. Click the *Start* sub-tab. The service status changes to *Running*.
5. Click the *Shares* tab.

#### **Configure the Novell CIFS to use a WINS server**

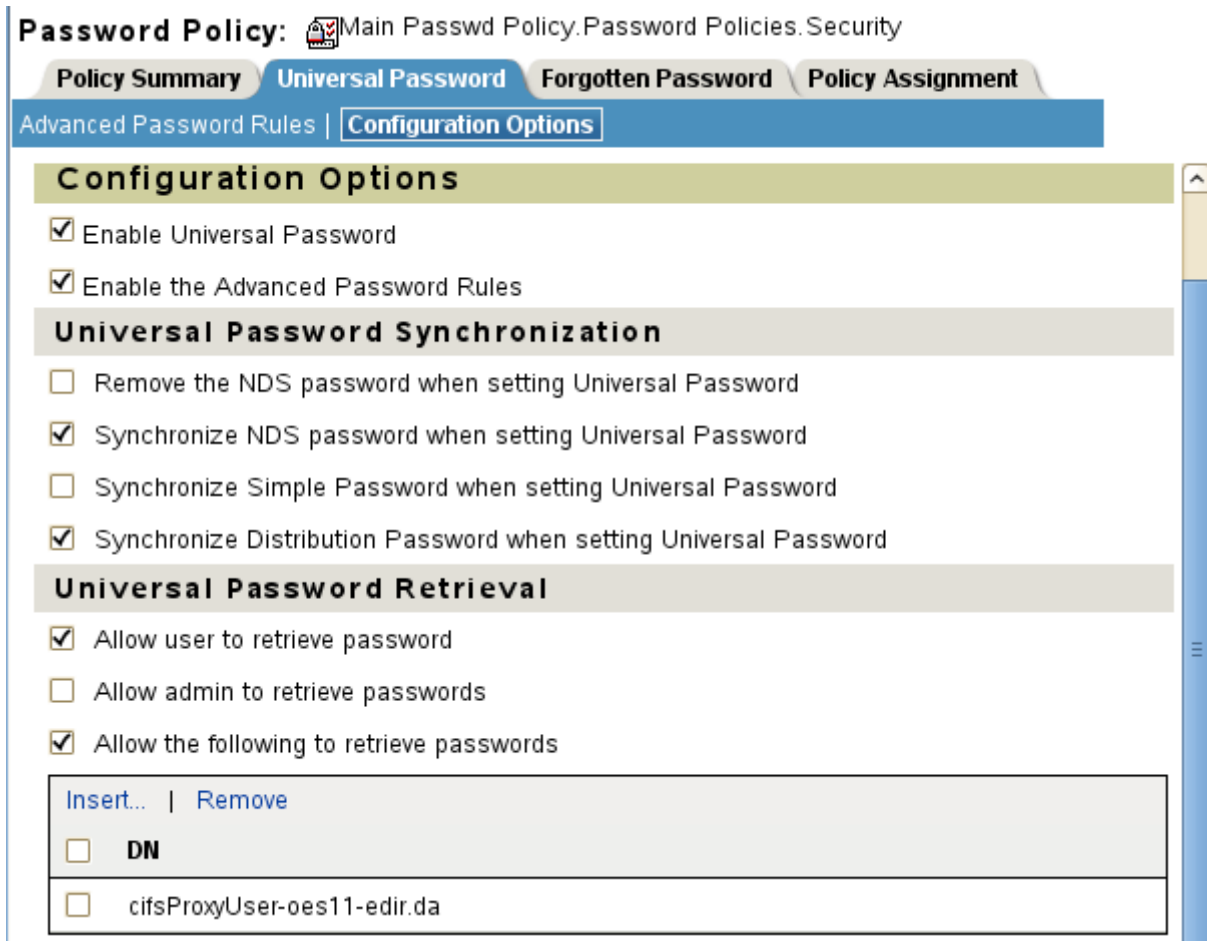
1. On the oes11-dsfw1 virtual machine open nautilus.
2. Browse to and open in gedit `/etc/samba/smb.conf`
3. At the bottom of the [Global] section add `wins support = yes`
4. Click the *Shares* tab.
5. In iManager > *Roles and Tasks*, click *File Protocols* > *CIFS*.
6. Click the *Browse* icon next to the *Server* field, then browse to and select the **oes11-edir** server.
7. On the *General* tab add the oes11-dsfw1 server as the wins server by entering in the WINS IP Address field **172.17.0.21**.
8. Apply the setting by clicking *ok*.

### **Exercise – Configure cifsproxy user to retrieve passwords**

In this exercise you will go to the password policy assigned to the domain and allow the cifsProxyUser to retrieve password policies.

**Configure cifsproxy user to retrieve passwords**

1. In iManager > *Roles and Tasks*, click **Passwords Policies** > click **Main Passwd Policy**.
2. Click on the **Universal Password** tab.
3. Click **Configuration Options** sub tab.
4. Check mark the **Allow the following to retrieve passwords** box.
5. Click **insert**, browse to and select the **cifsProxyUser-oes11-edir** and click **ok**



6. Click **ok** and click **close**.

### **Exercise – Join a Windows XP workstation to the domain**

In this exercise you will Join a Windows XP workstation to the Domain Services for Windows Domain  
You will login with the Administrator user after joining the workstation to the domain

#### **Join workstation to domain**

1. With winxp virtual machine powered down, select **VM > Snapshot > Start Here**; then
2. When prompted to open the snapshot, select **Yes**.
3. Power on the virtual machine.
4. Log in as **geeko** with the password of **novell**.
5. Modify the DNS settings **Start > control panel > Network Connections**.
6. Right-click on **Local Area Connection** and select **properties**.
7. Select **Internet Protocol** and click **Properties**.
8. For the Preferred DNS server enter **172.17.0.21**, click **OK**, and click **Close**.
9. Right click on **My Computer** and select **properties**.
10. Click **Computer Name** tab, then click **Change**.
11. Enter **winxp1** in the **Computer Name** field.
12. Select **Domain**.
13. Specify the domain name **da.com**.
14. Click **OK**.
15. Enter **Administrator** in the User Name field.
16. Enter the password of **novell** in the Password Field.
17. Click **OK**.
18. On success, will see message stating “Welcome to the da.com domain”.
19. Click **OK** at the prompt to restart the computer.

#### **Login from a windows XP workstation and access the DATA\_NSS share**

1. After restarting the computer enter **Administrator** for User Name.
2. Password of **novell**.
3. Select **DA** for the domain and login.
4. Map a drive to DATA\_NSS by double-clicking **My Computer > Select Tools** from the menu **> map network drive > \\172.17.0.11\data\_nss > Finish**.

## Section 3 Group Policy Management

Objective:      Join a workstation to the da.com domain  
                  Create a user with MMC  
                  Create a GPO  
                  Link the newly created GPO  
                  Modify the newly created GPO  
                  Login with the newly created user and GPO

Requirements:  oes11-edir virtual machine  
                  oes11 dsfw1 virtual machine  
                  winxp virtual machine

Resource Information:

Domain name: da.com  
Domain mapped to: o=da  
Tree = DA-TREE  
admin: cn=admin.o=da  
admin passwd: novell  
administrator passwd: novell  
eDir server: 172.17.0.11 oes11-edir.da.com  
PDC DSfW server: 172.17.0.21 oes11-dsfw1.oessystemobjects.da.com  
winxp: 172.17.0.101  
DNS server: 171.17.0.21  
iManager server: 171.17.0.11

### **Exercise – Join a Windows XP workstation to the domain**

In this exercise you will Join a Windows XP workstation to the Domain Services for Windows Domain  
You will login with the Administrator user after joining the workstation to the domain

#### **Join workstation to domain**

1. With winxp virtual machine powered down, select **VM > Snapshot > Start Here**; then
2. When prompted to open the snapshot, select **Yes**.
3. Power on the virtual machine.
4. Log in as **geeko** with the password of **novell**
5. Modify the DNS settings **Start > control panel > Network Connections**
6. Right-click on **Local Area Connection** and select **properties**
7. Select **Internet Protocol** and click **Properties**
8. For the Preferred DNS server enter **172.17.0.21**, click **OK**, and click **Close**
9. Right click on **My Computer** and select **properties**
10. Click **Computer Name** tab, then click **Change**
11. Enter **winxp1** in the **Computer Name** field
12. Select **Domain**
13. Specify the domain name **da.com**
14. Click **OK**
15. Enter **Administrator** in the User Name field
16. Enter the password of **novell** in the Password Field
17. Click **OK**
18. On success, will see message stating “Welcome to the da.com domain”
19. Click **OK** at the prompt to restart the computer
20. After restarting the computer enter **Administrator** for User Name
21. Password of **novell**
22. Select **DA** for the domain and login



### **Exercise – Create a Custom Management Console, a user, and Group Policy**

In this exercise you will create a custom Management Console (MMC) and using the newly created Management Console create a user and group policy for all authenticated users in the da.com domain

#### **Create a custom management console**

1. On the winxp virtual machine lick **Start > Run**.
2. In the text box type **mmc** and click **OK**.
3. From the File menu, select **Add/Remove Snap-In**.
4. Click **Add**.
5. Select **Active Directory Users and Computers** then click **Add**.
6. Select **Group Policy Management** then click **Add**.
7. Click **Close** to close the Add Standalone Snap-In dialog box.
8. Click **OK** to close the Add/Remove Snap-In dialog box.
9. From the File menu, select **Save As**.
10. In the Save in: text box select **Desktop** from the drop down list.
11. In the File Name text box type **MY MMC** and click **Save**.

#### **Create a user with MY MMC**

1. Start Active Directory Users and Computers by clicking on the desktop **MY MMC**
2. Select **Active Directory Users and Computers**
3. Expand the domain by clicking on the domain object **da.com**
4. Select the **corp** container object
5. Click the **new user** button in the task bar
6. At the prompts, enter the name and password information for the user  
Example:  
First name: **corpuser**  
User logon name: **corpuser**  
Password: **novell**

#### **Create a new Group Policy**

1. If the customer create management console is not already open, on the Desktop click **MY MMC**
2. Expand the **Group Policy Management, Forest: da.com, Domains, da.com, and Group Policy Objects**
3. Right-click the **Group Policy Objects** folder and select **new**.
4. In the **Name: text box** type **da\_gpo**
5. Right-click the **da.com** object and select **Link an Existing GPO...**
6. Select **da\_gpo** and click **OK**.
7. Click the **da\_gpo** object in the da.com domain object.
8. Click **OK** at the **Group Policy Management Console message**.
9. Click on the **Details** tab.
10. Take note of the Unique ID number.
11. On the oes11-dsfw1 virtual machine click **Computer > Nautilus**.
12. Browse to **/var/opt/novell/xad/sysvol/sysvol/da.com/Policies/**
13. Match the Unique ID number with the folder with the same name. That is the GPO just created

### **Exercise – Set an Interactive Logon Message or all users in the da.com domain and login with**

**a user**

In this exercise you will modify the newly created GPO to present a welcome message when the user starts the workstation and the user will not be prompted to enter `ctrl+alt+delete` to login. Force the update of the GPO and login with the `corpuser` to verify the settings in the GPO or working

**Set an Interactive Logon Message text for users and disable `ctrl+alt+delete`**

1. Go to the winxp virtual machine.
2. Double-click on the **MY MMC** icon on the desktop.
3. In the Group Policy Management tool select **da\_gpo**.
4. Right-click **da\_gpo** and select **edit**.
5. Click on **Computer Configuration > Windows Settings > Security Settings > Local Policies > Security Options > Interactive Logon**.
6. Double-click **do not require CTRL+ALT+DELETE**.
7. Check the box **Define this policy setting**.
8. Click **enabled**.
9. Click **ok**.
10. Enable **message text for users attempting to log on**.
11. Check the box **Define this policy setting in the template**.
12. In the text box enter: **Welcome to Digital Airlines**.
13. Click **ok**.
14. Enable **message title for users attempting to log on**.
15. Check the box enter: **Define this policy setting**.
16. In the text box enter: **Digital Airlines**.
17. Click **ok**.
18. Close the Group Policy: **File > exit**.

**Update the workstation with the GPO changes and login with the new GPO**

1. On the oes11-dsfw virtual machine open a terminal.
2. Type **gpupdate /force** and press **enter** to update the directory.
3. Switch back to the winxp virtual machine.
4. Open a command console **Start > Run > cmd**.
5. View the gpupdate help screen by typing **gpupdate /?**.
6. Take note of the different switches.
7. Force the update of the gpo on this workstation by typing **gpupdate /force**.
8. Reboot the winxp virtual machine **Start > Shutdown > Restart > OK**.
9. Log in as **corpuser** with the password of **novell**.
10. You should see the following message before logging in. Notice there is no **CTRL+ALT+DEL**.

