

## Build a Windows 2012 Server Project 2

<b>Scope</b>	Build a Domain Controller and a Windows Deployment Server for a network department with 24 users, two supervisors and two network administrators using two Windows 2012 Servers. The computers will have two 2 TB hard drives setup using RAID 1. The client computers will use Vista and Windows 7 and connect to the machines by 1000 Mbps Ethernet cable. The servers have two network interface cards.
<b>Active Directory</b>	All 24 users will be loaded in Active Directory and they can only read and write to their own project folder. Supervisors will have their own accounts and have full permissions to read and write to all folders. Administrators will have their own accounts and have full permissions to read and write to all folders.
<b>Security</b>	Username and passwords will conform to institution rules used in other departments.
<b>Roles</b>	Active Directory, DNS, Windows Deployment Services, NAT, VPN, File services, Print services
<b>Documentation</b>	<p>Create an installation manual showing every step to build the two servers for disaster recovery purposes.</p> <ol style="list-style-type: none"> <li>1. Title page</li> <li>2. Table of contents</li> <li>3. Hardware requirements</li> <li>4. BIOS settings</li> <li>5. Windows 2012 installation</li> <li>6. Drivers load</li> <li>7. Updates and service packs</li> <li>8. Security settings and audit policies</li> <li>9. Active Directory setup</li> <li>10. DNS setup</li> <li>11. VPN and NAT setup</li> <li>12. Personnel load and folder setup</li> <li>13. Establish RAID 1 backup</li> <li>14. Setup procedure for the Windows Deployment Server</li> <li>15. Install Images</li> <li>16. Testing</li> <li>17. LAN Diagram</li> <li>18. Index</li> <li>19. Disk with Windows 2012 Server, drivers and documents</li> </ol>

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Procedures are at: [http://www.worldclasscad.com/active\\_directory\\_2012.htm](http://www.worldclasscad.com/active_directory_2012.htm)

### **Specifics:**

Installation will be Windows 2012 Standard Server

All critical updates installed

All drivers installed (check your drivers before you reinstall)

- Refer to manufacturer' website

All password, account and audit policies set

Servers will have 2 NICs with the external card on the 192.168.10.0 network (use IP assigned)

Router address is 192.168.10.1

External IP address will be 192.168.10.2 and 192.168.10.3 (successive addresses per your IP address sheet)

Internal IP address is unique to your system.

Install SNMP feature

The server will be a Domain Controller (AD load)

- Domain name will be the company your group is emulating
- Primary DC name is server1
- WDS server name is server2

DNS forwarders will be:

8.8.8.8

8.8.4.4

209.18.47.61

209.18.47.62

74.202.52.145

216.136.95.2

64.132.94.250

206.222.120.186

Setup A host for your client computer

Setup a Reverse Lookup Zone

Setup a WINS server

Setup VPN and open the firewall for VPN

Setup a DHCP scope for 50 IP addresses

Setup printer and print server for network printer at 192.168.10.100

Synchronize your server with US Navy NTP server

Load yourself as an administrator with a user folder

Load your instructor as an administrator (email your instructor their username and password)

Create accounts for 24 user with a shared folders

Create accounts for 2 instructors with a shared folders

Create accounts for 2 administrators (one for yourself and the other for your partner)

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Setup Windows recommended file sizes for the server log  
Setup WDS server and add multiple OS images to the second hard drive  
Image a Windows 7 client from the WDS Server  
Logon on the server from the client computer as Jsmith (username)  
Setup the client with Office, antivirus, Adobe products and all the drivers  
Load Windows Automation Installation Kit to the client  
Setup to capture the wim from the client  
Run sysprep.exe and capture the image from the client to the server  
Image a client with the full captured image