# **IN719 Systems Administration OpsDocs**

## **Installing Active Directory and Microsoft DNS**

### Step One

Add roles (users) with privileges – User, Domain Administrator, Domain User, and Administrator.

### Step Two

Install Active Directory, following the prompts from the installer. Once this is done, proceed to next step.

### Step Three

Install Active Directory Domain Services Installation Wizard, with dcpromo.exe.

### Step Four

Create new domain in a new “forest”.

### Step Five

Name forest root domain

* + Enter groupi.sqrawler.com
  + Then “Next”

### Step Six

Default “GROUPI”

### Step Seven

Set forest functional level

* + Windows Server 2008 R2
  + Then “Next”

### Step Eight

Additional domain controller options:

* + Select additional options for domain controller
  + Select “DNS Server”
  + Then “Next”
  + Click “Yes” on prompt

### Step Nine

Location for Database, Log files, and SYSVOL:

Database folder

* + C:\Windows\NTDS
  + C:\Windows\NTDS
  + C:\Windows\SYSVOL

Then “Next”

### Step Ten

Directory Services Restore Mode Admin Password – Create a strong password

Then “Next”

### Step Eleven

Create answer file (export settings)

### Step Twelve

Summary

Then “Next”

### Step Thirteen

Default first site name

### Step Fourteen

Restart to finalize installation

### Step Fifteen

Log back into Windows server via RDP

### Step Sixteen

Check Active Directory installation for potential errors and warnings

## **Installation user accounts on Debian DB server and turning off remote root access:**

Initially log in as root and install sudo:

apt-get install sudo

Then create accounts for hegargm1, attfire1, tclark, and jbloggs, i.e.

adduser jbloggs

etc. and follow prompts. Note that to remove the user we type:

userdel –r jbloggs

The –r option also removes the home directory of the user.

Then make users sudoers by opening /etc/sudoers and add line enabling sudo for each user, i.e.

tclark ALL=(ALL) ALL

To turn off ssh remote root access we edit the sshd config file:

sudo vi /etc/ssh/sshd\_config

and find the line beginning with “PermitRootLogin …” and change yes to no. Finally restart the sshd to apply changes, i.e.

sudo /etc/init.d/ssh restart

## **Installation of MySQL on Debian DB server**

Find relevant packages:

apt-cache search mysql

Install mysql-server:

apt-get install mysql-server

## **Installation and implementation of Git and the Code Repo**

### Windows

A folder was created in the Administrator’s user folder called “coderepo”, then Git was downloaded and installed from <http://git-scm.com/downloads>.

### Debian DB Server

Git was installed by invoking the command “sudo apt-get install git”. Rob Attfield created initial repository on GitHub, then added Gareth Hegarty as a person who has full privileges.

GitHub repository for Systems Administration scripts is located at <https://github.com/rattfieldnz/in719_sys_admin>. User accounts associated with this repository are hegagm1 (Gareth Hegarty - <https://github.com/hegargm1/>), and rattfieldnz (Rob Attfield - <https://github.com/rattfieldnz>).

On GitHub, scripts from the Windows server will be placed and committed to a repository folder called “windows”. Scripts for the Debian DB server will be placed into a repository folder called “debiandbserver” (TO DO).

**TO DO:**

* Add information about changing domains (include diagram and info about forests)
* Add information about setting up Debian DB (MySQL database) server
* Add information about creating user accounts for hegargm, tclark, attfire1, and Administrator (on Debian DB server)
* Create password safe