HUMBER
Faculty of Applied Sciences & Technology

LAB – 09 PRELAB

☐ **All screenshots, must have your username at command prompt and screenshot should be legible.** Snipping tool is advised for the screen shots, no full page screenshot.

☐ **For <mark>LAB REPORT</mark>, The screenshots should be pasted in Word Document in order of the lab questions and submitted in Blackboard as a <u>single document</u> only. <mark>Plagiarism is awarded zero.</mark>**

☐ Refer to course details posted in BB for more info on Lab report and screenshots.

☐ **Do NOT login as root or user with UID=0 to do the lab, use sudo ONLY when required.**

☐ **Do not use <u>changeme</u> username to do the lab, the lab(s) MUST be done using your own username as specified in PART-B of LAB-1**

☐ **Strictly NO screenshots with full screen of terminal or desktop or partly taken screenshots**

☐ **It is highly required to following naming conventions and instructions and it would affect evaluation.**

<u>Reference to your course resources could be required</u>

PART-A: INSTALL ACTIVE DIRECTORY DS

> <mark>If *nnnn* is specified in the lab, it is your last four digits of your humberid which starts with **n**</mark>

1. Go to **DC2022** VM, click on `CTRL+ALT+DEL` and login as Administrator with password P@$$w0rd

2. Open the **Computer Management** console, In **Local Users and Groups** expand and right click on **Users-> New User**, create a user for yourself with username *firstnamennnnsl, give password (sl to identify user as server local user).* Make yourself member of **Administrators** group. (**SCREENSHOT Computer Management console displaying your username and your group**)

3. Install Active directory DS role in DC2022 VM

4. Promote DC2022 VM as domain controller with root domain name **ccgc*nnnn*.net**

   SCREENSHOT: a) Server Manager -> Local Server b) In PowerShell **GET-ADDomain**

   c) In PowerShell **GET-ADDomain |select DistinguishedName**

5. After ADDS installed successfully, and logged in, run gpmc.msc and should open Group Policy Management Window, explore the GPM under Forest and domains (**SCREENSHOT**)

6. Create a active directory user with your firstname*nnnn* and note your default group.

7. Check the groups for Administrator user and assign the same groups to your username

   SCREENSHOT: In PowerShell, **GET-ADPrincipalGroupMembership *yourusernamennnn* | select name**

8. Logout as Administrator user from DC2022 VM and login back with your own username

9. Open the command prompt, and ping to WS2019 IP4, 192.168.1.100 for 4 successful pings.

PART-B: WORKSTATION

10. Power on WS2019 VM, login as **Administrator** and password is **P@$$w0rd**

11. In VM WS2019, create user for yourself. Your username MUST be *firstnameLast4digitsofHumberID* and make yourself administrator. Assign password to yourself.

    > <mark>If *nnnn* is specified in the lab, it is your last four digits of your humberid which starts with **n**</mark>

12. Logout as Administrator and login as your own user.

13. Go to Command prompt, and type **query user (SCREENSHOT)**

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14. Go to WS2019 VM and join WS2019 VM to the Active Directory DS in DC2022 *(ControlPanel->SystemAndSecurity->System->ChangeSettings->Change->under Member Of, click Domain and enter ccgcnnnn.net->OK)*

15. Login to the Active Directory DS of **ccgc*nnnn*.net** from WS2019 using your username created in DC2022. **SCREENSHOT**: **Control Panel->System & Security->System**

PART-C:OU, USERS & GROUPS

16. In DC, Create Domain Local scope, security groups **Tech**, **Sales**, **Management**, **Finance**

17. Create Organization Units (OU) named **HALIFAX**, **CALGARY** and **SUDBURY**

18. Create users as given below

Organizational Unit	Username	FirstName	LastName	Group
--	jamesg	JAMES	GOSLING	TECH
--	paula	PAUL	ALLEN	FINANCE
--	scottm	SCOTT	MCNEALY	SALES
HALIFAX	dennisr	DENNIS	RITCHIE	TECH
CALGARY	kent	KEN	THOMPSON	TECH
CALGARY	johnm	JOHN	MILTON	FINANCE
HALIFAX	oscarw	OSCAR	WILDE	SALES
HALIFAX	kobeb	KOBE	BRYANT	FINANCE
SUDBURY	markt	MARK	TWAIN	MANAGEMENT
SUDBURY	charlesd	CHARLES	DICKENS	MANAGEMENT

SCREENSHOT: In PowerShell a)**GET-WMIObject -Class Win32_UserAccount | select FullName,Name**

b) **GET-ADGroupMember TECH |select Name,DistinguishedName**

c) **GET-ADGroupMember SALES |select Name,DistinguishedName**

d) **GET-ADGroupMember FINANCE|select Name,DistinguishedName**

e) **GET-ADGroupMember MANAGEMENT |select Name,DistinguishedName**

f) **GET-ADOrganizationalUnit -Filter '*' |select Name**

PART-D:

19. From WS2019 VM, try to login to ADDS using any one username you have created in AD.

20. From DC2022, go to computers object in the AD DS, right click on the WS2019 computer and try to manage the computer from DC. *If firewall error is given, enable the incoming FW rules as given in the error.* **SCREENSHOT: a)**ComputerManagement window of WS2019 in DC2022

b) In PowerShell, **GET-ADComputer -Filter '*'**

PowerShell: https://docs.microsoft.com/en-us/powershell/module/addsadministration/?view=windowsserver2019-ps

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