

PRACTICAL LAB TEST

TERM	COURSE NAME	COURSE CODE	VERSION
Summer 2020	Introduction to Operating Systems using Windows	IOS110	V1

Name	
Student Number	
Section	

TIME ALLOWED: 168 hours
 PERCENTAGE: 25%
 TOTAL MARKS: 25 Marks (Screenshots will vary depending on the test version)

SENECA'S ACADEMIC HONESTY POLICY

As a Seneca student, you must conduct yourself in an honest and trustworthy manner in all aspects of your academic career. A dishonest attempt to obtain an academic advantage is considered an offense and will not be tolerated by the College.

For this Practical Test, you will require one Virtual Machine:

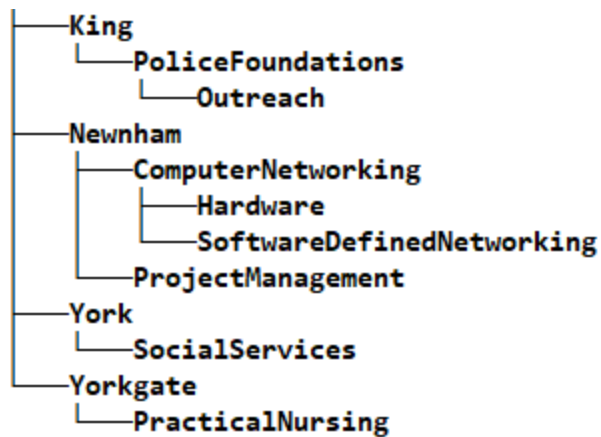
1. Create a Virtual Machine with
 - One CPU (2 CPU cores)
 - 40GB Hard Disk Drive
 - 4GB RAM
 - Network Card set to Network Address Translation (**NAT**) Mode.
2. Install Windows Server 2012 R2. (Lab 1)
3. Update the server with the latest Microsoft patches.
 - a. Control Panel / System and Security / Windows Update
4. Disable IE Enhanced Security Configuration. (Lab 1)
5. Download and install either Firefox or Chrome. (Lab 1)
6. Download and Install the Windows Management Framework 5.1 to your server.

<https://www.microsoft.com/en-us/download/details.aspx?id=54616>

(the file to download for Windows Server 2012R2 is **Win8.1AndW2K12R2-KB3191564-x64.msu**)

PART A – Building a file system, with NTFS and Share permissions

1. Open a Command Prompt.
2. In the **root** of your Primary Partition, create a directory called **SENECA** and within the **SENECA** directory, create the following directory Structure



3. Create the following files in the specified directories
 - Guilty.txt in the **PoliceFoundations** Directory
 - CriticalPath.txt in the **ProjectManagement** Directory
 - File1.txt in the **SENECA** Directory
 - File1.txt in the **PracticalNursing** Directory (this is not a typo)
 - Tested.txt in the **PracticalNursing** Directory

Use the appropriate command-line tool to create a graphical directory tree of the files and directories that you have created. Take a screenshot of the results and save it as PTEST-1.jpg

PART B – User account and group creation

- Using the most appropriate tools for the task, create the following user accounts and groups on your server. Uncheck the “Users must change password at next login” checkbox.

Group Name	Description
Faculty	Faculty members of the Seneca College Community
Student	Student members of the Seneca College Community
Administration	Administration members of the Seneca College Community

Create a screen shot showing that all three groups have been created (use GUI, command line tools or Powershell to display the groups). Call the screen shot PTEST-2.jpg (if you need more than one screen shot, name the files PTEST-2a.jpg, PTEST- 2b.jpg, etc.)

User Full Name	User name	Password	Group Membership
Fozzy Bear	fbear	P@ssw0rd	Print Operators
Luke Skywalker	lskywalker	P@ssw0rd	Administrators
Wile E. Coyote	wcoyote	P@ssw0rd	Faculty
Charlie Brown	cbrown	P@ssw0rd	Administration
Bugs Bunny	bbunny	P@ssw0rd	Student

Create a screen shot showing that all users have been created (use GUI, command line tools or Powershell to display the users). Call the screen shot PTEST-3.jpg (if you need more than one screen shot, name the files PTEST-3a.jpg, PTEST-3b.jpg, etc.)

- Add the following user account details

User Name	Property	Value
Luke Skywalker	Password Never Expires	True (checked)
Wile E. Coyote	Account is disabled	True (checked)
Charlie Brown	Home Folder	Local Path: C:\Seneca\King

Create a screen shot showing that the user accounts have been modified with these properties (use GUI, command line tools or Powershell to display the user details). Call the screen shot PTEST-4.jpg (if you need more than one screen shot, name the files PTEST-4a.jpg, PTEST-4b.jpg, etc.)

PART C – Create a Shared Folder and Set Permissions

- Assign NTFS Permissions as follows

Folder	User / Group	Permission
SENECA	Students, Faculty	Read Only (all sub-folders)
SENECA	Administration	Full Control
King	Wile E. Coyote	Read Only

Create a screen shot showing that all three file system permissions have been granted (use GUI, command line tools or Powershell to display the file system permissions). Call the screen shot PTEST-5.jpg (if you need more than one screen shot, name the files PTEST-5a.jpg, PTEST-5b.jpg, etc.)

2. Share the SENECA folder and set the **share** permissions so that the Administration group has Full Control access to the share and all other groups that you created have Read Only access to the share.

Create a screen shot showing that the share permissions have been assigned to the Seneca folder (use GUI, command line tools or Powershell to display the file system permissions). Call the screen shot PTEST-6.jpg (if you need more than one screen shot, name the files PTEST-6a.jpg, PTEST-6b.jpg, etc.)

Creating Your Screenshots to Submit

You should have the following Screen Shots to submit to Blackboard:

ScreenShot 1 – PTEST-1.jpg

Use the appropriate command-line tool to create a graphical directory tree of the files and directories that you have created. Take a screenshot of the results and save it as PTEST-1.jpg (if you need more than one screen shot, name the files PTEST-1a.jpg, PTEST-1b.jpg, etc.).

ScreenShot 2 – PTEST-2.jpg

Create a screen shot showing that all three groups have been created (use GUI, command line tools or Powershell to display the groups). Call the screen shot PTEST-2.jpg (if you need more than one screen shot, name the files PTEST-2a.jpg, PTEST-2b.jpg, etc.)

ScreenShot 3 – PTEST-3.jpg

Create a screen shot showing that all users have been created (use GUI, command line tools or Powershell to display the users). Call the screen shot PTEST-3.jpg (if you need more than one screen shot, name the files PTEST-3a.jpg, PTEST-3b.jpg, etc.)

ScreenShot 4 – PTEST-4.jpg

Create a screen shot showing that the user accounts have been modified with these properties (use GUI, command line tools or Powershell to display the user details). Call the screen shot PTEST-4.jpg (if you need more than one screen shot, name the files PTEST-4a.jpg, PTEST-4b.jpg, etc.)

ScreenShot 5 – PTEST-5.jpg

Create a screen shot showing that all three file system permissions have been granted (use GUI, command line tools or Powershell to display the file system permissions). Call the screen shot PTEST-5.jpg (if you need more than one screen shot, name the files PTEST-5a.jpg, PTEST-5b.jpg, etc.)

ScreenShot 6 – PTEST-6.jpg

Create a screen shot showing that the share permissions have been assigned to the SENECA folder (use GUI, command line tools or Powershell to display the file system permissions). Call the screen shot PTEST-6.jpg (if you need more than one screen shot, name the files PTEST-6a.jpg, PTEST-6b.jpg, etc.)

Combine the screenshots into a MS Word document and upload to Blackboard under **Course Documents / Tests / Practical Lab Test**