OSYS 2022

Linux Scripting

Course Weight: 60.00

Course Description

This course builds on the basics of the Unix operating system. Learners will learn the core utilities to work productively in a Linux environment and develop command line skills. Topics will include shell scripts, managing permissions, process management and network applications and services with an emphasis on the system-related security issues.

Rationale

Security experts require abilities to navigate and use the Unix / Linux operating systems to take preventative measures in a networked environment. Linux is also used to host many of the tools the security expert will use daily. This course will develop the skills needed to when working in the cyber security field.

Prerequisite(s):
OSYS 1020 (Operating Systems Security)
Corequisite(s):
None

Learning Outcomes

Learners are required to successfully complete each course outcome. In keeping with NSCC's approach to portfolio learning, learners will have demonstrated the ability to:

1.   Implement management and configuration settings in a Linux environment.
2.   Apply command line syntax and skills required to manage a Linux system.
3.   Secure a Linux environment using scripting to manage users, groups and process creation.
4.   Create and implement a Certification Authority for a client / server environment.
5.   Create and configure a VPN on a Linux system working as a server.

Grading

Grade with pass of 60.

Required Supplies

See instructor for details.

Other Course Notes

It is the responsibility of the student to review and understand all Nova Scotia Community College policies, most specifically the Student Code of Conduct, Academic Integrity, Student Appeals, Use of Copyright Materials, and Academic Accommodation policies.
Policies directly applicable to students are referenced in the student handbook. The policies and procedures can be found on the College website: http://nscc.ca/current_students
If you have questions about policies and/or procedures, you are encouraged to ask Faculty, your Academic Chair or Staff at Student Services.

Workplan
A workplan for this course is attached and will be reviewed by your faculty member (s) within the first week of class study.

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