Learning Activities: CIS 221: Linux/UNIX Programming and Scripting I

In this course, students learn to use UNIX more efficiently with advanced forms of the commands and utilities building on the fundamentals of Linux/UNIX, as well as new commands and constructs. Advanced topics include sed, grep, awk, perl, and how to effectively use regular expressions, as well as constructs and special commands used in writing shell scripts. New topics covered include functions, traps, arithmetic on variables and input/output techniques.

These learning activities were created using Articulate Storyline software. To preview or edit these files, download the zip package at the link listed below, open the folder and extract the files.

Module 1: Review Basics & Introduction to Linux Scripting

Module 2: Regular Expressions and Additional Commands

LinuxGrepCommand
https://www.skillscommons.org/handle/taaccct/6965

FilterCommands
https://www.skillscommons.org/handle/taaccct/6964

RegularExpressions
https://www.skillscommons.org/handle/taaccct/6963

Module 3: Meta Characters, Special Parameters, Quotes & Passing Arguments

Quote Combination Activity
https://www.skillscommons.org/handle/taaccct/6961

Module 4: Conditional Statements

linux_IfStatement output
https://www.skillscommons.org/handle/taaccct/6960

Module 5: Looping

for Loop Activity
https://www.skillscommons.org/handle/taaccct/6959

while Loop Activity
https://www.skillscommons.org/handle/taaccct/6958

more Loops Activity
https://www.skillscommons.org/handle/taaccct/6957

Module 6: Reading Data

ReadDataFromFileActivity
https://www.skillscommons.org/handle/taaccct/6956

ReadCommandActivity
https://www.skillscommons.org/handle/taaccct/6955

Module 7: Controlling Your Environment and Fun with Parameters

ParameterVariable Substitution output
https://www.skillscommons.org/handle/taaccct/6954

Module 8: Controlling, Scheduling & Functions

Module 9: Awk

Awk Print Activity
https://www.skillscommons.org/handle/taaccct/6953

BEGIN and END
https://www.skillscommons.org/handle/taaccct/6952

Awk and Reg Ex
https://www.skillscommons.org/handle/taaccct/6951

Awk Arrays
https://www.skillscommons.org/handle/taaccct/6983

Module 10: Perl

PerlOperatorsActivity
https://www.skillscommons.org/handle/taaccct/6950

PerlArraysActivity
https://www.skillscommons.org/handle/taaccct/6949

PerlPushPopShiftCommands
https://www.skillscommons.org/handle/taaccct/6948

Perl If Examples
https://www.skillscommons.org/handle/taaccct/6947