Advanced Scripting   
PowerShell Tutorial

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Document Prepared for: CIT361 Student

# Overview

For this lab will work with another student to create a significant PowerShell Lab/Exercise/Tutorial to do something you find interesting. Topics could include things like: (DO NOT LIMIT YOURSELF TO THIS LIST)

* Network scanning, analysis
* Cryptography
* Shell Customization
* Digitally signing scripts
* Log file processing
* Integration with online services, such as Azure, AWS, Google Cloud etc.
* Integration with other products like MS Teams, Office Apps, VMWare etc.
* Dynamic programming
* Desired State Computing
* Computer management
* Penetration testing
* File maintenance
* Integration with online storage providers like OneDrive, Google Docs, Drop Box, etc.
* Linux, OSX integration
* Integration with .Net
* Building cmdlet with common parameter support
* Building cmdlets with .net
* PowerShell gallery modules
* How to set up a module repository

# Requirements:

This project is pretty open ended, be thorough. It should contain both teaching and practice components. Include screenshots, examples of code, extra resources etc.

# Deliverable:

* Video walkthrough of the material.
* Word document tutorial/lesson that describes how to do your task. It should include instructions, samples, and a deliverable. The document should state what requirements are necessary to complete the lab. Include your names in the document so you get credit for your hard work. Future students will get a chance to do your tutorial!