

8-2 Cyber Playbook Submission

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CYB-300-11432-M01 System and Comm Security

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Cyber Playbook	
Component Security	Sample Scripts
Sample Scripts	Windows Power Shell
Connection Security	Bash for Unix/Linux
Data Security	
Human Security	
Organizational Security	
Societal Security	
CIS Critical Security Contr...	
Software Security	
System Security	
Legal	
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specific administrative tasks within your IT infrastructure. These scripts serve as practical tools to enhance efficiency, improve security, and ensure continuous system management through automation.

Objectives

- Efficiency and Automation:** Streamline and automate routine and complex system administration tasks to save time and reduce the potential for human error.
- Enhanced Security:** Employ scripts that reinforce security protocols, perform regular checks, and swiftly respond to potential vulnerabilities.
- System Monitoring and Maintenance:** Utilize scripts to monitor system health, manage resources, and perform maintenance tasks proactively.

Scope



The scripts included are divided into categories based on their functionality:

- Object Management:** Scripts for manipulating and managing system objects, such as viewing object structures, managing .NET and COM objects, and utilizing WMI objects.
- System and Computer Management:** Tools for modifying computer states, gathering system information, and managing system processes and services.
- Output and File Management:** Scripts aimed at managing outputs, files, and registry keys effectively, including creating and managing PowerShell drives.
- User Interface Scripts:** Scripts that help create and manage custom UI elements for better user interaction and data input.

Using the Scripts

Each script comes with detailed instructions for use, including scenarios where they can be most effective. Users are encouraged to adapt the scripts to their specific needs, modifying parameters and integrating them into larger workflows as necessary. These scripts are meant to serve as a starting point for developing a robust toolkit that can be expanded and refined over time.

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[powershell-scripting-powershell-7.4.pdf](#)

In selecting the most valuable part of the cyber playbook for this course, I have chosen the section on "Sample Scripts for System Administration," which focuses on Windows PowerShell. This section is helpful for me because it includes scripts that automate tasks I must do often. Using these scripts allows me to do my job faster and reduce mistakes, which is especially important as I handle more complex systems. As my responsibilities grow, I can expand these PowerShell scripts to handle larger tasks and more systems. They also help keep the systems I manage secure by checking who has access and what they can do, which is a big part of keeping everything running smoothly. Working with these scripts is also a great way for me to get better at system administration, improving skills that are essential in cybersecurity. Plus, I can tweak

these scripts to fit what I need, making them a flexible tool as I take on more demanding security challenges. This makes them incredibly valuable for my future career growth, not just today.