Setting the Execution Policy

Objectives:

At the end of this episode, I will be able to:

1. Configure the PowerShell execution policy.
2. Configure execution policy scopes.

Additional resources used during the episode can be obtained using the download link on the overview episode.

* What is the execution Policy
  + Prevents running a script unknowingly
  + Not a security boundary
  + Easy to bypass
  + Any command can be run interactively
  + Only affects commands running in a script
* Execution policies

https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/about/about\_execution\_policies?view=powershell-7.2#powershell-execution-policies

* AllSigned
  + All scripts must be signed by trusted publisher
  + Prompt for trust if not trusted
* Bypass
  + Nothing is blocked
  + No warnings
* Default
  + Sets execution policy to default
    - Client set to Restricted
    - Server set to RemoteSigned
* RemoteSigned
  + Local scripts can run
  + Scripts from internet require trusted signature
  + Unblock-File overrides policy and runs script
* Restricted
  + Default for Client OS
* Undefined
* Unrestricted
* Execution policy scope
  + Can set execution policy that is only effective at a particular scope
  + Policy that applies is based on precedence
    - MachinePolicy
      * Set by Group Policy
      * All users of the computer
    - UserPolicy
      * Set by Group Policy
      * Current user of the computer
    - Process
      * Current session
      * Removed when session is closed
    - CurrentUser
      * Only current user
      * Stored in registry
    - LocalMachine
      * All users of the computer
      * Stored in registry
      * Default when setting execution policy

Get-ExecutionPolicy

Get-ExecutionPolicy -List

Set-ExecutionPolicy -ExecutionPolicy AllSigned

Get-ExecutionPolicy -List

Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned

Get-ExecutionPolicy -List

Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy Undefined

External Resources:

During this episode, you can reference the following external resources for supplementary tools and information:

* [About Execution Policies](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/about/about_execution_policies?view=powershell-7.2)