Arrays

Objectives:

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

1. Create and use arrays in PowerShell.

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

* Arrays
  + Store a collection of items
  + Same or different types
* Create an array
  + Assign multiple values to a variable
  + Use the range operator
  + Default type is object
* Array sub-expression operator
  + Create an array of zero or one object
  + Create an array of unknown length
* Reading arrays
  + Use the variable name to return all elements
  + Use brackets to return element by index
    - 0-based index
* Writing arrays
  + To change an elements value
    - Use [] and "="
    - Use SetValue method
  + To add an element to an array
    - Use +=
    - Creates a new array
* Counting array elements
  + Length property
  + Count alias

External Resources:

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

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