

# Powershell - Getting Started

## get version

```
$PSVersionTable
```

## get-command

Show list of commands available. Use *Noun* and *Verb* to filter the commands, otherwise all commands will be listed.

```
get-command -Noun *resourceGroup* -Verb get
```

## get-member

List properties of the object - all powershell values are objects and what is displayed on the screen is just a default view. To select an object, the actual property name needs to be obtained.

```
Get-Command Get-AzResourceGroup | Get-Member
```

## select-object

Project members to be displayed

```
Get-Command Get-AzResourceGroup | Select-Object -Property Name, ModuleName
```

## where-object

Filter data from command response

```
Get-AzResourceGroup | Where-Object {$_.location -eq 'eastus'}
```

Easier syntax below:

```
Get-AzResourceGroup | Where-Object location -eq 'eastus'
```

Can also use wildcard and other comparison operators, such as like:

```
Get-AzResourceGroup | Where-Object location -like '*us'
```

## sort-object

Sort response from the previous command.

```
Get-AzResourceGroup | sort-object ResourceGroupName, Location
```

To sort descending, use:

```
Get-AzResourceGroup | sort-object ResourceGroupName, Location -Descending
```

Sort individual property with different sort value:

```
Get-AzResourceGroup | sort-object @{Expression="ResourceGroupName";  
Descending=$true}, @{Expression="Location"; Descending=$false}
```

## get-help

Get more details on a command

```
get-help Get-AzResourceGroup
```

get-help does prints out the help content to the terminal, but doesn't provide paging. To get paging, use the help command instead.

```
help Get-AzResourceGroup
```

However, get-help shows extra commands to get examples, or full details. On the other hand, help gives all details and may be a little too much information if you just want something specific, such as examples.

```
Get-Help Get-AzResourceGroup -Examples  
Get-Help Get-AzResourceGroup -Detailed  
Get-Help Get-AzResourceGroup -Full  
Get-Help Get-AzResourceGroup -Online
```

Notice the last command with -online parameter. It takes you to microsoft documentation for that command.