**Useful PowerCLI One Liners**

**Notes:**

* You can replace an asterisk with specific hosts.
* Regex is also supported (example under Getting/Setting Advanced Settings).
* For the Get/Set Advanced Values, you can look up the value you want to change in vSphere.
  + *Click on the host (i.e mesx01.sd.vte.training.navy.mil) -> Click Configure -> Click on Advanced System Settings -> Click Edit.* From there you can either scroll or filter for the setting name.
* For SSH Services, the system is set to automatically disable SSH after 600 seconds.

**Start/Stop SSH**

*Get-VMHostService -VMHost \* | Where {$\_.Key -eq "TSM-SSH"} | Start-VMHostService*

*Get-VMHostService -VMHost \* | Where {$\_.Key -eq "TSM-SSH"} | Stop-VMHostService*

**Change SSH Timeout**

*Get-AdvancedSetting -Entity (Get-VMhost -Name <host>) -Name UserVars.ESXiShellTimeOut | Set-AdvancedSetting -Value* ***(600 for STIG Compliance, 0 for no timeout)***

*Get-AdvancedSetting -Entity (Get-VMhost -Name <host>) -Name UserVars.ESXiIneractiveShellTimeOut | Set-AdvancedSetting -Value* ***(600 for STIG Compliance, 0 for no timeout)***

**Enter/Exit Lockdown Mode**

*(Get-VMHost \*|Get-View).ExitLockdownMode()*

*(Get-VMHost \*|Get-View).EnterLockdownMode()*

**Enter/Exit Maintenance Mode**

*Set-VMHost -VMhost \* -State Connected -RunAsync*

*Set-VMHost -VMhost \* -State Maintenance -RunAsyn*c

**Get a List of Orphaned VMs:**

*Get-VM \* | Where {$\_.Extensiondata.Summary.Runtime.ConnectionState -eq "orphaned"} | Select Name*

**Re-Register Orphaned VMs (SSH into the ESXi Hosts and run this command):**

*vim-cmd solo/registervm /vmfs/volumes/<volume-string>/<vmname-directory>/<vmname>.vmx*

**Getting Advanced Setting Values**

*Get-AdvancedSetting -Entity (Get-VMhost \* <or specific host>) -Name <advanced-setting-name>*

***Examples:***

* **Getting the global log directory for all Management Hosts:**
  + *Get-AdvancedSetting -Entity (Get-VMhost mesx\*) -Name syslog.global.logDir*
* **Getting the unique log value (true/false) for Management Hosts:**
  + *Get-AdvancedSetting -Entity (Get-VMhost mesx\*) -Name syslog.global.logDirUnique*

**Setting Advanced Settings**

*Get-AdvancedSetting -Entity (Get-VMhost \* <or specific host>) -Name <advanced-setting-name> | Set-AdvancedSetting -Value <new-value>*

***Examples:***

* **Setting a new value for the global log directory on all Management Hosts:**
  + *Get-AdvancedSetting -Entity (Get-VMhost mesx\*) -Name syslog.global.logDir | Set-AdvancedSetting -Value '[MGMT03] systemlogs/log'*
* **Setting the unique log directory value for Management Hosts:**
  + *Get-AdvancedSetting -Entity (Get-VMhost \*) -Name syslog.global.logDirUnique | Set-AdvancedSetting -Value true*

**Get a List of All Running VMs**

* *Get-VM | Sort-Object -Property Name | Get-View -Property @("Name", "Config.GuestFullName", "Guest.GuestFullName") | Select-Object -Property Name, @{N="Configured OS";E={$\_.Config.GuestFullName}}, @{N="Runing OS";E={$\_.Guest.GuestFullName}} | FT*