

# New PowerShell Toolkit Version 1805.11.1

```
Administrator: Windows PowerShell
Pure Storage windows Server Best Practice Analyzer
-----
Most Information
-----
ChassisSerialNumber : FCH08313PW
CollectDate/Time   : 5/13/2018 8:11:01 AM
Model              : UCSB-R200-M1
Name               : Server08.mslab.purestorage.com
NumberOfCores      : 20
NumberofLogicalProcessors : 20
NumberofProcessors : 2
OSName             : Microsoft Windows Server 2016 Datacenter
OSSku              : 400
OSSuite            : 400
OSSuiteMask        : 400
OSSuiteVersion     : 0.3.1400
ProcessorFamily    : 179
ProcessorManufacturer : GenuineIntel
ProcessorName       : Intel(R) Xeon(R) CPU E5-2680 v2 @ 2.80GHz
SystemManufacturer : Cisco Systems Inc

Multipath-ID Verification
-----
PASS: Multipath-ID is installed.

Multipath-ID Hardware Verification
-----
BusType           : FibreChannel
iSCSIEnabled      : True
iSCSISupported    : True
ProductID         : FlashArray
VendorID          : PURE
PSComputerName    : PURE
PASS02: Microsoft Device Specific Module (MSDM) is configured for Pure Storage FlashArray.

Current MPID Settings
-----
PathVerificationState : Enabled
PathVerificationPeriod : 30
PathRemovalPeriod     : 30
RetryCount            : 3
RetryInterval          : 1
UseCustomPathRecoveryTime : Enabled
CustomPathRecoveryTime : 20
DiskTimeoutValue      : 60

MPID Settings Verification
-----
PASS01: PathVerificationState is Enabled. No action required.
PASS02: PathVerificationPeriod is set to 30. No action required.
PASS03: PathRemovalPeriod is set to 30. No action required.
PASS04: UseCustomPathRecoveryTime is set to Enabled. No action required.
PASS05: CustomPathRecoveryTime is set to 20. No action required.
PASS06: DiskTimeoutValue is set to 60. No action required.

TRN/UNMAP Verification
-----
PASS07: Delete Notification Enabled

PS C:\>
```

```
Administrator: Windows PowerShell
Pure Storage windows Server Best Practice Analyzer
-----
Most Information
-----
ChassisSerialNumber : FLK20170UAE
CollectDate/Time   : 5/13/2018 8:11:08 AM
Model              : UCSB-R200-M4
Name               : Server08.mslab.purestorage.com
NumberOfCores      : 28
NumberofLogicalProcessors : 28
NumberofProcessors : 2
OSName             : Microsoft Windows Server 2012 R2 Datacenter
OSSku              : 400
OSSuite            : 400
OSSuiteMask        : 400
OSSuiteVersion     : 0.3.1400
ProcessorFamily    : 179
ProcessorManufacturer : GenuineIntel
ProcessorName       : Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz
SystemManufacturer : Cisco Systems Inc

Multipath-ID Verification
-----
PASS: Multipath-ID is installed.

Multipath-ID Hardware Verification
-----
BusType           : iSCSI
iSCSIEnabled      : True
iSCSISupported    : True
ProductID         : FlashArray
VendorID          : PURE
PSComputerName    : PURE
PASS02: Microsoft Device Specific Module (MSDM) is configured for Pure Storage FlashArray.

Current MPID Settings
-----
PathVerificationState : Enabled
PathVerificationPeriod : 30
PathRemovalPeriod     : 30
RetryCount            : 3
RetryInterval          : 1
UseCustomPathRecoveryTime : Enabled
CustomPathRecoveryTime : 20
DiskTimeoutValue      : 60

MPID Settings Verification
-----
PASS01: PathVerificationState is Enabled. No action required.
PASS02: PathVerificationPeriod is set to 30. No action required.
PASS03: PathRemovalPeriod is set to 30. No action required.
PASS04: UseCustomPathRecoveryTime is set to Enabled. No action required.
PASS05: CustomPathRecoveryTime is set to 20. No action required.
PASS06: DiskTimeoutValue is set to 60. No action required.

TRN/UNMAP Verification
-----
PASS07: Delete Notification Enabled

PS C:\Users\Administrator>
```

```
Administrator: C:\Windows\system32\cmd.exe - powershell
Pure Storage windows Server Best Practice Analyzer
-----
Most Information
-----
ChassisSerialNumber : FCH08237CC6
CollectDate/Time   : 5/13/2018 8:15:38 AM
Model              : UCSB-R200-M4
Name               : MS17093.mslab.purestorage.com
NumberOfCores      : 28
NumberofLogicalProcessors : 28
NumberofProcessors : 2
OSName             : Microsoft Windows Server Datacenter
OSSku              : 145
OSSuite            : 256
OSSuiteMask        : 256
OSSuiteVersion     : 0.3.17093
ProcessorFamily    : 179
ProcessorManufacturer : GenuineIntel
ProcessorName       : Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz
SystemManufacturer : Cisco Systems Inc

Multipath-ID Verification
-----
PASS: Multipath-ID is installed.

Multipath-ID Hardware Verification
-----
BusType           : FibreChannel
iSCSIEnabled      : False
iSCSISupported    : True
ProductID         : FlashArray
VendorID          : PURE
PSComputerName    : PURE
PASS02: Microsoft Device Specific Module (MSDM) is configured for Pure Storage FlashArray.

Current MPID Settings
-----
PathVerificationState : Disabled
PathVerificationPeriod : 30
PathRemovalPeriod     : 30
RetryCount            : 3
RetryInterval          : 1
UseCustomPathRecoveryTime : Disabled
CustomPathRecoveryTime : 30
DiskTimeoutValue      : 60

MPID Settings Verification
-----
FAILED: PathVerificationState is Disabled.
REQUIRED ACTION: Set the PathVerificationState to Enabled? Y/N: Y
WARNING: Settings changed, reboot required.
FAILED: PathRemovalPeriod is set to 30? Y/N: Y
REQUIRED ACTION: Set the PathRemovalPeriod to 30? Y/N: Y
WARNING: Settings changed, reboot required.
FAILED: UseCustomPathRecoveryTime is set to Disabled.
REQUIRED ACTION: Set the UseCustomPathRecoveryTime to Enabled? Y/N: Y
```

In a previous post I detailed out the issue with Get-MPIOSetting value returns. This problem caused the Test-WindowsBestPractices cmdlet to not work. This new version of the Toolkit re-enables the use of Test-WindowsBestPractices cmdlet. The fix has been tested on 2012 R2, 2016 and 17093. Windows Server 2019 has fixed this issue.

## THE DATA PLATFORM FOR THE CLOUD ERA



No other improvements unfortunately. After Pure//Accelerate I will be working on integrating the SQL Server and VMware cmdlets into the Toolkit.

Problem put an issue in at <https://github.com/PureStorage-OpenConnect/powershell-toolkit/issues>.