

Ask the Experts: NetApp PowerShell Questions

PowerShell technical questions are regularly [asked and answered](#) on the NetApp® [Community site](#). In this month's Ask the Experts, we provide pointers to information for using PowerShell across the NetApp portfolio: All-Flash FAS (AFF) and FAS systems with ONTAP®, E-Series systems with the SANtricity® OS and SolidFire® systems with Element OS.

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- The ONTAP PowerShell module contains over 2000 cmdlets, enabling the storage administration of ONTAP-powered systems via the [NetApp Manageability SDK](#) (sometimes referred to as ZAPI).
- The SANtricity PowerShell module contains over 200 cmdlets, enabling the storage administration of NetApp E-Series storage systems and EF-Series all-flash arrays.
- SolidFire PowerShell Tools provide a collection of scripts, functions, and examples for operations such as snapshot scheduling, remote logging, bulk volume tasks, and more.

Where Can I Find NetApp PowerShell Toolkits?

The NetApp PowerShell Toolkit 4.2 unified the majority of NetApp's PowerShell modules into a single package; it supports ONTAP running on FAS, AFF, commodity hardware – or the cloud – and SANtricity (running on E-Series storage systems and EF-series all-flash arrays).

The unified toolkit provides complete API coverage to ONTAP 9.0 and is backward compatible with previous ONTAP releases as well. It also enables end-to-end automation and storage management for [ONTAP Select](#) running on commodity hardware and [ONTAP Cloud](#) instances running on a public cloud service. The 4.2 release supports Microsoft Windows Server 2016 in addition to previously supported versions of Windows (Windows Server 2008 R2 and 2012 R2, and Windows 7, 8 and later).

You can download the NetApp Unified Toolkit from the [NetApp support site](#) (registration required).

SolidFire PowerShell Tools are available separately via the [SolidFire GitHub site](#).

Getting Started

For help getting started, check out these blog posts and videos:

- [NetApp PowerShell Toolkit 101: Getting Started](#)
- [NetApp PowerShell Toolkit 101: Managing Volume Snapshots](#)
- [Getting Started with E-Series SANtricity PowerShell Toolkit](#)
- [SolidFire PowerShell Videos on YouTube](#)

PowerShell-related Sessions at NetApp Insight 2016

If you plan to attend the Insight Conference in Las Vegas (Sept 26-29) or Berlin (Nov 14-17), be sure to check out these sessions:

- [92781-2 - APIs to the Rescue! Solve Complex Problems Quickly \(US only\)](#)
- [61519-2 - Manage and Automate a Microsoft Windows File Services Environment with PowerShell](#)
- [60760-2 - Integrating Your Application with NetApp SolidFire](#)

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