Domain Name System (DNS) Server Cmdlets in Windows PowerShell

Windows Server 2012 R2 and Windows 8.1
Other Versions

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Applies To: Windows 8.1, Windows PowerShell 4.0, Windows Server 2012 R2

Windows PowerShell® is a task-based command-line shell and scripting language designed especially for system administration. This reference topic for the information technology (IT) professional provides assistance in utilizing the Windows PowerShell cmdlets to script and automate tasks.

Domain Name System (DNS) Server Cmdlets

This reference provides cmdlet descriptions and syntax for all DNS Server cmdlets. It lists the cmdlets in alphabetical order based on the verb at the beginning of the cmdlet.

Cmdlet	Description
Add-DnsServerConditionalForwarderZone	Adds a conditional forwarder to a DNS server.
Add-DnsServerDirectoryPartition	Creates a DNS application directory partition.
Add-DnsServerForwarder	Adds server level forwarders to a DNS server.
Add-DnsServerPrimaryZone	Adds a primary zone to a DNS server.
Add-DnsServerResourceRecord	Adds a resource record of a specified type to a specified DNS zone.
Add-DnsServerResourceRecordA	Adds a type A resource record to a DNS zone.
Add-DnsServerResourceRecordAAAA	Adds a type AAAA resource record to a DNS server.
Add-DnsServerResourceRecordCName	Adds a type CNAME resource record to a DNS zone.
Add-DnsServerResourceRecordDnsKey	Adds a type DNSKEY resource record to a DNS zone.
Add-DnsServerResourceRecordDS	Adds a type DS resource record to a DNS zone.
Add-DnsServerResourceRecordMX	Adds an MX resource record to a DNS zone.
Add-DnsServerResourceRecordPtr	Adds a type PTR resource record to a DNS zone.

Add-DnsServerRootHint	Adds root hints on a DNS server.
Add-DnsServerSecondaryZone	Adds a DNS server secondary zone.
Add-DnsServerSigningKey	Adds a KSK or ZSK to a signed zone.
Add-DnsServerStubZone	Adds a DNS stub zone.
Add-DnsServerTrustAnchor	Adds a trust anchor to a DNS server.
Add-DnsServerZoneDelegation	Adds a new delegated DNS zone to an existing zone.
Clear-DnsServerCache	Clears resource records from a cache on the DNS server.
Clear-DnsServerStatistics	Clears all DNS server statistics or statistics for zones.
ConvertTo-DnsServerPrimaryZone	Converts a zone to a DNS primary zone.
ConvertTo-DnsServerSecondaryZone	Converts a primary zone or stub zone to a secondary zone.
Disable-DnsServerSigningKeyRollover	Disables key rollover on an input key.
Enable-DnsServerSigningKeyRollover	Enables rollover on the input key.
Export-DnsServerDnsSecPublicKey	Exports DS and DNSKEY information for a DNSSEC–signed zone.
Export-DnsServerZone	Exports contents of a zone to a file.
Get-DnsServer	Retrieves a DNS server configuration.
Get-DnsServerCache	Gets DNS server cache settings.
Get-DnsServerDiagnostics	Retrieves DNS event logging details.
Get-DnsServerDirectoryPartition	Gets a DNS application directory partition.
Get-DnsServerDnsSecZoneSetting	Gets DNSSEC settings for a zone.
Get-DnsServerDsSetting	Retrieves DNS Server Active Directory settings.
Get-DnsServerEDns	Gets EDNS configuration settings on a DNS sever.
Get-DnsServerForwarder	Gets forwarder configuration settings on a DNS server.
Get-DnsServerGlobalNameZone	Retrieves DNS server GlobalName zone configuration details.
Get-DnsServerGlobalQueryBlockList	Gets a global query block list.
Get-DnsServerRecursion	Retrieves DNS server recursion settings.
Get-DnsServerResourceRecord	Gets resource records from a specified DNS zone.
Get-DnsServerRootHint	Gets root hints on a DNS server.
Get-DnsServerScavenging	Gets DNS aging and scavenging settings.
Get-DnsServerSetting	Retrieves DNS server settings.
Get-DnsServerSigningKey	Gets zone signing keys.
Get-DnsServerStatistics	Retrieves DNS server statistics or statistics for zones.
Get-DnsServerTrustAnchor	Gets trust anchors on a DNS server.
Get-DnsServerTrustPoint	Gets trust points on a DNS server.
Get-DnsServerZone	Gets details of DNS zones on a DNS server.
Get-DnsServerZoneAging	Gets DNS aging settings for a zone.

Get-DnsServerZoneDelegation	Gets the zone delegations of a DNS server zone.
Import-DnsServerResourceRecordDS	Imports DS resource record information from a file.
Import-DnsServerRootHint	Copies root hints from a DNS server.
Import-DnsServerTrustAnchor	Imports a trust anchor for a DNS server.
Invoke-DnsServerSigningKeyRollover	Initiates rollover of signing keys for the zone.
Invoke-DnsServerZoneSign	Signs a DNS server zone.
Invoke-DnsServerZoneUnsign	Unsigns a DNS server zone.
Register-DnsServerDirectoryPartition	Registers a DNS server in a DNS application directory partition.
Remove-DnsServerDirectoryPartition	Removes a DNS application directory partition.
Remove-DnsServerForwarder	Removes server level forwarders from a DNS server.
Remove-DnsServerResourceRecord	Removes specified DNS server resource records from a zone.
Remove-DnsServerRootHint	Removes root hints from a DNS server.
Remove-DnsServerSigningKey	Removes signing keys.
Remove-DnsServerTrustAnchor	Removes a trust anchor from a DNS server.
Remove-DnsServerZone	Removes a zone from a DNS server.
Remove-DnsServerZoneDelegation	Removes a name server or delegation from a DNS zone.
Reset-DnsServerZoneKeyMasterRole	Transfers the role of Key Master for a DNS zone.
Restore-DnsServerPrimaryZone	Restores primary DNS zone contents from Active Directory or from a file.
Restore-DnsServerSecondaryZone	Restores secondary zone information from its source.
Resume-DnsServerZone	Resumes name resolution on a suspended zone.
Set-DnsServer	Overwrites a DNS server configuration.
Set-DnsServerCache	Modifies cache settings for a DNS server.
Set-DnsServerConditionalForwarderZone	Changes settings for a DNS conditional forwarder.
Set-DnsServerDiagnostics	Sets debugging and logging parameters.
Set-DnsServerDnsSecZoneSetting	Changes settings for DNSSEC for a zone.
Set-DnsServerDsSetting	Modifies DNS Active Directory settings.
Set-DnsServerEDns	Changes EDNS settings on a DNS server.
Set-DnsServerForwarder	Changes forwarder settings on a DNS server.
Set-DnsServerGlobalNameZone	Changes configuration settings for a GlobalNames zone.
Set-DnsServerGlobalQueryBlockList	Changes settings of a global query block list.
Set-DnsServerPrimaryZone	Changes settings for a DNS primary zone.
Set-DnsServerRecursion	Modifies recursion settings for a DNS server.
Set-DnsServerResourceRecord	Changes a resource record in a DNS zone.

Set-DnsServerResourceRecordAging	Begins aging of resource records in a specified DNS zone.
Set-DnsServerRootHint	Replaces a list of root hints.
Set-DnsServerScavenging	Changes DNS server scavenging settings.
Set-DnsServerSecondaryZone	Change settings for a DNS secondary zone.
Set-DnsServerSetting	Modifies DNS server settings.
Set-DnsServerSigningKey	Changes settings of a signing key.
Set-DnsServerStubZone	Changes settings for a DNS server stub zone.
Set-DnsServerZoneAging	Configures DNS aging settings for a zone.
Set-DnsServerZoneDelegation	Changes delegation settings for a child zone.
Show-DnsServerCache	Shows the records in a DNS Server Cache.
Show-DnsServerKeyStorageProvider	Returns a list of key storage providers.
Start-DnsServerScavenging	Notifies a DNS server to attempt a search for stale resource records.
Start-DnsServerZoneTransfer	Starts a zone transfer for a secondary DNS zone from master servers.
Step-DnsServerSigningKeyRollover	Rolls over a KSK that is waiting for a parent DS update.
Suspend-DnsServerZone	Suspends a zone on a DNS server.
Sync-DnsServerZone	Checks the DNS server memory for changes, and writes them to persistent storage.
Test-DnsServer	Tests that a specified computer is a functioning DNS server.
Test-DnsServerDnsSecZoneSetting	Validates DNSSEC settings for a zone.
Unregister-DnsServerDirectoryPartition	Deregisters a DNS server from a DNS application directory partition.
Update-DnsServerTrustPoint	Updates all trust points in a DNS trust anchor zone.

Note

To list all the cmdlets that are available, use the `Get-Command -Module DnsServer` cmdlet.

For more information about, or for the syntax of, any of the cmdlets, use the `Get-Help` <*cmdlet name*> cmdlet, where <*cmdlet name*> is the name of the cmdlet that you want to research. For more detailed information, you can run any of the following cmdlets:

- `Get-Help` <*cmdlet name*> `-Detailed`
- `Get-Help` <*cmdlet name*> `-Examples`
- `Get-Help` <*cmdlet name*> `-Full`