Windows PowerShell Get-Help on Cmdlet 'Resolve-DnsName'

PS:\>Get-HELP Resolve-DnsName -Full

NAME

Resolve-DnsName

SYNOPSIS

Performs a DNS name query resolution for the specified name.

SYNTAX

Resolve-DnsName [-Name] <String> [[-Type] {UNKNOWN | A_AAAA | A | NS | MD | MF | CNAME | SOA | MB | MG | MR | NULL | WKS | PTR | HINFO | MINFO | MX | TXT | RP | AFSDB

| X25 | ISDN | RT | AAAA | SRV | DNAME | OPT | DS | RRSIG | NSEC | DNSKEY | DHCID | NSEC3 | NSEC3PARAM | ANY | ALL | WINS}] [-CacheOnly] [-DnsOnly] [-DnssecCd]

[-DnssecOk] [-LlmnrFallback] [-LlmnrNetbiosOnly] [-LlmnrOnly] [-NetbiosFallback] [-NoHostsFile] [-NoIdn] [-NoRecursion] [-QuickTimeout] [-Server <String[]>]

[-TcpOnly] [<CommonParameters>]

DESCRIPTION

The Resolve-DnsName cmdlet performs a DNS query for the specified name. This cmdlet is functionally similar to the nslookup tool which allows users to query for names.

PARAMETERS

-CacheOnly [<SwitchParameter>]

Resolves this query using only the local cache.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DnsOnly [<SwitchParameter>]

Resolves this query using only the DNS protocol.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DnssecCd [<SwitchParameter>]

Sets the DNSSEC checking-disabled bit for this query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DnssecOk [<SwitchParameter>]

Sets the DNSSEC OK bit for this query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-LlmnrFallback [<SwitchParameter>]

Allows falling back to the LLMNR protocol when resolving this query with DNS fails.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-LlmnrNetbiosOnly [<SwitchParameter>]

Resolves this query using only the LLMNR or NetBIOS protocols.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-LlmnrOnly [<SwitchParameter>]

Resolves this query using only the LLMNR protocol.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Name <String>

Specifies the name to be resolved.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-NetbiosFallback [<SwitchParameter>]

Allows fallback to the NetBIOS protocol when resolving this query with DNS fails.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-NoHostsFile [<SwitchParameter>]

Skips the hosts file when resolving this query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-NoIdn [<SwitchParameter>]

Specifies not to use IDN encoding logic for the query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-NoRecursion [<SwitchParameter>]

Instructs the server not to use recursion when resolving this query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-QuickTimeout [<SwitchParameter>]

Uses shorter timeouts for this query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Server <String[]>

Specifies the IP addresses or host names of the DNS servers to be queried. By default the interface DNS servers are queried if this parameter is not supplied.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-TcpOnly [<SwitchParameter>]

Uses only TCP for this query.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Type <RecordType>

Specifies the DNS query type that is to be issued. By default the type is A_AAAA, the A and AAAA types will both be queried. The acceptable values for this

parameter are:

-- UNKNOWN = 0,

-- A_AAAA = 0, the DNS query type is A_AAAA.

-- A = 1, the DNS query type is IPv4 server Address.

-- AAAA = 28, the DNS query type is IPv6 server address.

-- NS = 2, the DNS query type is name server.

-- MX = 15, the DNS query type is mail routing information.

-- MD = 3, the DNS query type is mail destination.

-- MF = 4, the DNS query type is mail forwarder.

-- CNAME = 5, the DNS query type is canonical name.

-- SOA = 6, the DNS query type is start of authority zone.

-- MB = 7, the DNS query type is mailbox domain name.

-- MG = 8, the DNS query type is mail group member.

-- MR = 9, the DNS query type is mail rename name.

-- NULL = 10, the DNS query type is null resource record.

-- WKS = 11, the DNS query type is well known service.

-- PTR = 12, the DNS query type is domain name pointer.

-- HINFO = 13, the DNS query type is host information.

-- MINFO = 14, the DNS query type is mailbox information.

-- TXT = 16, the DNS query type is text strings.

-- RP = 17, the DNS query type is responsible person.

-- AFSDB = 18, the DNS query type is AFS database servers.

-- X25 = 19, the DNS query type is packet switched wide area network.

-- ISDN = 20, the DNS query type is Integrated Services Digital Network.

-- RT = 21, the DNS query type is DNS route through.

-- SRV = 33, the DNS query type is server selection.

-- DNAME = 39, the DNS query type is domain aliases.

-- OPT = 41, the DNS query type is DNS option.

-- DS = 43, the DNS query type is delegation signer.

-- RRSIG = 46, the DNS query type is DNSSEC signature.

-- NSEC = 47, the DNS query type is next-secure record.

-- DNSKEY = 48, the DNS query type is DNS key record.

-- DHCID = 49, the DNS query type is Dynamic Host Configuration Protocol information.

-- NSEC3 = 50, the DNS query type is NSEC record version 3.

-- NSEC3PARAM = 51, the DNS query type is NSEC3 parameters.

-- ANY = 255, the DNS query type is wildcard match.

-- ALL = 255, the DNS query type is wildcard match.

Required? false

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

None

OUTPUTS

Microsoft.DnsClient.Commands.DnsRecord

The DnsRecord object contains all of the records returned from the wire for the specified DNS query.

NOTES

---------- EXAMPLE 1 ----------

PS C:\> Resolve-DnsName -Name www.bing.com

This example resolves a name using the default options.

---------- EXAMPLE 2 ----------

PS C:\> Resolve-DnsName -Name www.bing.com -Server 10.0.0.1

This example resolves a name against the DNS server at 10.0.0.1.

---------- EXAMPLE 3 ----------

PS C:\> Resolve-DnsName -Name www.bing.com -Type A

This example queries for A type records for name www.bing.com.

---------- EXAMPLE 4 ----------

PS C:\> Resolve-DnsName -Name www.bing.com -DnsOnly

This example resolves a name using only DNS. LLMNR and NetBIOS queries are not issued.

RELATED LINKS

https://learn.microsoft.com/powershell/module/dnsclient/resolve-dnsname?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Nslookup on TechNet https://go.microsoft.com/fwlink/p/?LinkId=84907