

Arp

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Displays and modifies entries in the Address Resolution Protocol (ARP) cache, which contains one or more tables that are used to store IP addresses and their resolved Ethernet or Token Ring physical addresses. There is a separate table for each Ethernet or Token Ring network adapter installed on your computer. Used without parameters, **arp** displays help.

Syntax

```
arp [-a [InetAddr] [-N IfaceAddr]] [-g [InetAddr] [-N IfaceAddr]] [-d InetAddr [IfaceAddr]] [-s InetAddr EtherAddr [IfaceAddr]]
```

Parameters

-a [*InetAddr*] [-N *IfaceAddr*] : Displays current ARP cache tables for all interfaces. To display the ARP cache entry for a specific IP address, use **arp -a** with the *InetAddr* parameter, where *InetAddr* is an IP address. To display the ARP cache table for a specific interface, use the **-N *IfaceAddr*** parameter where *IfaceAddr* is the IP address assigned to the interface. The **-N** parameter is case-sensitive.

-g [*InetAddr*] [-N *IfaceAddr*] : Identical to **-a**.

-d *InetAddr* [*IfaceAddr*] : Deletes an entry with a specific IP address, where *InetAddr* is the IP address. To delete an entry in a table for a specific interface, use the *IfaceAddr* parameter where *IfaceAddr* is the IP address assigned to the interface. To delete all entries, use the asterisk (*) wildcard character in place of *InetAddr*.

-s *InetAddr* *EtherAddr* [*IfaceAddr*] : Adds a static entry to the ARP cache that resolves the IP address *InetAddr* to the physical address *EtherAddr*. To add a static ARP cache entry to the table for a specific interface, use the *IfaceAddr* parameter where *IfaceAddr* is an IP address assigned to the interface.

/? : Displays help at the command prompt.

- The IP addresses for *InetAddr* and *IfaceAddr* are expressed in dotted decimal notation.
- The physical address for *EtherAddr* consists of six bytes expressed in hexadecimal notation and separated by hyphens (for example, 00-AA-00-4F-2A-9C).
- Entries added with the **-s** parameter are static and do not time out of the ARP cache. The entries are removed if the TCP/IP protocol is stopped and started. To create permanent static ARP cache entries, place the appropriate **arp** commands in a batch file and use **Scheduled Tasks** to run the batch file at startup.

- This command is available only if the **Internet Protocol (TCP/IP)** protocol is installed as a component in the properties of a network adapter in Network Connections

Examples

To display the ARP cache tables for all interfaces, type:

arp -a

To display the ARP cache table for the interface that is assigned the IP address 10.0.0.99, type:

arp -a -N 10.0.0.99

To add a static ARP cache entry that resolves the IP address 10.0.0.80 to the physical address 00-AA-00-4F-2A-9C, type:

arp -s 10.0.0.80 00-AA-00-4F-2A-9C

Formatting legend

Format	Meaning
<i>Italic</i>	Information that the user must supply
Bold	Elements that the user must type exactly as shown
Ellipsis (...)	Parameter that can be repeated several times in a command line
Between brackets ([])	Optional items
Between braces ({}); choices separated by pipe (). Example: {even odd}	Set of choices from which the user must choose only one
Courier font	Code or program output

[Command-line reference A-Z](#)

[Schtasks](#)

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