|  |
| --- |
| **ARP** |

|  |
| --- |
| ARP is a communication protocol used for discovering the link layer address, such as a |

MAC address, associated with a given internet layer address, typically an IPv4 address.

This mapping is a critical function in the Internet protocol suite. ARP was defined in

|  |
| --- |
| 1982 by **RFC 826** which is Internet Standard STD 37. |

|  |
| --- |
| In Internet Protocol Version 6 (IPv6) networks, the functionality of ARP is provided by |

|  |
| --- |
| the Neighbor Discovery Protocol (NDP). |

|  |
| --- |
| To manipulate or display ARP table entries, the following commands are implemented. |

|  |
| --- |
| **Configure** |

|  |
| --- |
| **set protocols static arp interface <interface> address <host> mac <mac>** |

|  |
| --- |
| This will configure a static ARP entry always resolving *<address>* to *<mac>* for |

|  |
| --- |
| interface *<interface>*. |

|  |
| --- |
| Example: |

|  |
| --- |
| set protocols static arp interface eth0 address 192.0.2.1 mac 01:23:45:67:89:01 |
| **Operation** |

|  |
| --- |
| **show protocols static arp** |

|  |
| --- |
| Display all known ARP table entries spanning across all interfaces |

|  |
| --- |
| vyos@vyos:~$ show protocols static arp  Address HWtype HWaddress Flags Mask Iface 10.1.1.1 ether 00:53:00:de:23:2e C eth1 10.1.1.100 ether 00:53:00:de:23:aa CM eth1 |

|  |
| --- |
| **show protocols static arp interface eth1** |

|  |
| --- |
| Display all known ARP table entries on a given interface only (*eth1*): |

|  |
| --- |
| vyos@vyos:~$ show protocols static arp interface eth1  Address HWtype HWaddress Flags Mask Iface 10.1.1.1 ether 00:53:00:de:23:2e C eth1 10.1.1.100 ether 00:53:00:de:23:aa CM eth1 |

PreviousNext