

1Pv4 to 1Pv6 Transition

- IPv6 is not natively backward compatible with IPv4.
- To aid in the transition, as well as to allow IPv4 and IPv6 to co-exist, there are two transition technologies you need to know:
 - Dual IP Stack
 - Tunneling



IPv4 to IPv6 Compatibility

Dual IP Stack

- When both IPv4 and IPv6 protocols co-exist within an operating system.
- Can be used independently or together.

Tunneling

- Tunneling is when we encapsulate IPv4 into IPv6 data and vice versa:
 - 4to6
 - o 6in4
 - Teredo
 - Miredo



Tunneling Protocols

- 4to6: Encapsulates IPv4 data into an IPv6 Tunnel
- 6in4: Encapsulates IPv6 data into an IPv4 Tunnel and can traverse IPv4 NAT.
- Teredo: Microsoft Windows IPv6 tunneling protocol similar to 6in4 that supports NAT.
- Miredo: A Linux and Unix-based open-source version of Teredo.

