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With the depletion of IPv4 address space just a short time away, it is in the best interest for the network engineers to become familiar with IPv6 [8]. The IPv6 header has been streamlined for efficiency. The new format introduces the concept of an extension header, allowing greater flexibility to support optional features. The processing of IPv6 header is very convenient as compared to IPv4 as it introduces fewer overheads. The following Fig. 1 shows the header formats for both the protocols and Table II shows the fields in the both protocols and their comparisons.

TABLE II: Header Comparison

IPv4 Header Field	IPv6 Header Field
Version	Same field but with different version number.
Header Length	This field is not kept in IPv6 since IPv6 header is of fixed length 40 bytes. Each extension header is either a fixed size or indicates its own size.
Type of Service	Serves the same purpose as IPv4 Traffic Class field, specifies how traffic is handled in categories.
Total Length	Replaced by the IPv6 Payload Length field, which only indicates the size of the payload.
Identification, Fragmentation Flags, Fragment Offset	Removed in IPv6. Fragmentation information is not included in the IPv6 header. It is contained in a Fragment extension header.
Time to Live	Replaced by the IPv6 Hop Limit field.
Protocol	Replaced by the IPv6 Next Header field.
Header Checksum	Removed in IPv6. As IPv6 has error detection for the entire IPv6 packet is performed by the link layer.
Source Address	The field is the same except that IPv6 addresses are 128 bits in length.
Destination Address	The field is the same except that IPv6 addresses are 128 bits in length.
Options	Removed in IPv6. IPv4 options are replaced by IPv6 extension headers.

III. Addressing

IPv6 addresses are assigned to interfaces not to nodes. IPv6 offers three types of addresses: unicast, anycast and multicast [9]. There is no broadcasting in IPv6, this function is being replaced by multicast address.

Unicast: Unicast Address is an identifier for a single interface and is delivered to the interface identified by that interface. Load sharing over multiple physical interfaces can be obtained by assigning unicast address or a set of unicast addresses to multiple physical interfaces, if the implementations treats the multiple interfaces as single interface.

Anycast: Anycast address is an identifier for a set of interfaces. However packet sent to this address is delivered to only one of the interfaces identified by that address, possibly the nearest one.

Multicast: Multicast address is an identifier for a set of interfaces. Packet sent to a multicast address is delivered to all interfaces identified by that address.

IV. Transition Technologies

IPv6 offers several benefits over the legacy IPv4 technology, however for the successful deployment of IPv6 requires both the protocols to co-exist. IPv6 is not backward compatible with IPv4 [10] and IPv4 hosts and routers will not be able to deal directly with IPv6 traffic and vice-versa. The hardware and software used to route packets across networks and that performs security analysis will not work with IPv6 protocol unless they are upgraded to versions that support IPv6 protocol. It will take years to migrate completely from IPv4 network to IPv6 network. Till then both the protocols need to be interoperated together. For both the protocols to co-exist, different transition and inter-operation mechanisms have been developed. During the transition period, IPv6 nodes are going to need to communicate with IPv4 nodes and isolated "Islands of IPv6 installations" are going to need to use the wider IPv4 network to connect to each other [11].

The existing transition techniques [12] transitioning a network from IPv4 to IPv6 includes: Dual Stack, Tunneling, and Translation. The following subsections discusses these mechanisms in detail.

Dual Stack

In dual-stack architecture, all the components of the network system should support both the protocols. Applications must choose either IPv4 or IPv6, by selecting the correct address based on the type of IP traffic and particular requirements of the communication. Currently dual-stack is the most preferred deployment strategy for the network with a mixture of IPv4 and IPv6 applications that require both the protocols. But it includes many problems like all the routers must be upgraded to IPv6 and it also requires the dual management of IPv4 and IPv6 routing tables.

Tunneling

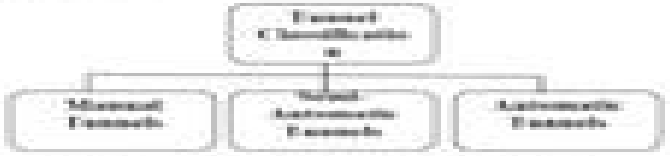

Figure 2: Classification of tunneling mechanism

Tunneling is a mechanism by which the existing IPv4 backbone can be used to carry IPv6 traffic and vice versa. The tunneling protocol carries the tunneled protocol. Tunneling can be either IPv6-over-IPv4 or IPv4-over-IPv6 networks. In this transition period while the IPv6 infrastructure is being deployed, the existing IPv4

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