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Difference Between IPV4 and IPV6

1. IPv4 is a 32-bit IP system whereas IPv6 is a 128-bit IP system.
2. IPv4 support 4 billion addresses/networks whereas IPv6 supports 340×10^{38} addresses/networks.
3. IPv4 has 12 header field, checksum fields and supports broadcast whereas IPv6 has 8 header fields, no checksum field and does not support broadcast.
4. IPv4 is considered less suitable for mobile devices due to its dot-separated binary address whereas IPv6 is considered mobile-friendly due to its colon-separated hexadecimal alphanumeric address.
5. IPv4 was not designed with security as a key factor in mind whereas IPv6 is designed with built-in Internet Protocol Security with designated key infrastructure.
6. IPv4 supports Virtual Length Subnet Mask (VLSM) and is manually configured whereas IPv6 does support VLSM and is also automatically configured.



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Source and more details: <https://askanydifference.com/difference-between-ipv4-and-ipv6/>