

NANYANG POLYTECHNIC IT1X62 Network Technology

Tutorial 10 – IPv6 Address

1. What are some reasons to transit to the IPv6 addressing space?
2. List some characteristics of an IPv6 address.
3. Convert these hextets into binary:-

Hextet	Binary
FE80	
2000	
2001	

4. Compress these IPv6 addresses:-

Preferred	2013:0000:0123:4567:89AB:CDEF:0000:0001
Compressed	
Preferred	1129:1984:2233:4455:6677:0000:0000:0101
Compressed	
Preferred	1031:1976:0001:0002:0003:0004:0000:0101
Compressed	
Preferred	0000:0000:0000:0000:0000:0000:0000:0001
Compressed	
Preferred	2001:0000:0000:ABCD:1234:0000:0000:0101
Compressed	

5. List 3 types of IPv6 addresses and their respective characteristics.