

IP Address RegEx

IPv4

```
^([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])$
```

```
[0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5]    0-255
```

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.
```

IPv6

```
^((((([0-9a-fA-F]{1,4}:){7}([0-9a-fA-F]{1,4})))|((([0-9a-fA-F]{1,4}:){1,7}:)|((([0-9a-fA-F]{1,4}:){1,6}(:[0-9a-fA-F]{1,4}){1})|((([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){2})|((([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){3})|((([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){4})|((([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){5})|((([0-9a-fA-F]{1,4}:){1}(:[0-9a-fA-F]{1,4}){6})|(:(:[0-9a-fA-F]{1,4}){1,7})|((([0-9a-fA-F]{1,4}){1}(:[0-9a-fA-F]{1,4}){1,6})|((([0-9a-fA-F]{1,4}:){2}(:[0-9a-fA-F]{1,4}){1,5})|((([0-9a-fA-F]{1,4}:){3}(:[0-9a-fA-F]{1,4}){1,4})|((([0-9a-fA-F]{1,4}:){4}(:[0-9a-fA-F]{1,4}){1,3})|((([0-9a-fA-F]{1,4}:){5}(:[0-9a-fA-F]{1,4}){1,2})|((([0-9a-fA-F]{1,4}:){6}(:[0-9a-fA-F]{1,4}){1})|(::)|fe80:(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,})|(::(ffff(:0{1,4}){0,1}:){0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))|((([0-9a-fA-F]{1,4}:){1,4}:(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]))))$
```

```
((([0-9a-fA-F]{1,4}:){7}([0-9a-fA-F]{1,4}))                1:2:3:4:5:6:7:8
((([0-9a-fA-F]{1,4}:){1,7}:)                               1::
1:2:3:4:5:6:7::
((([0-9a-fA-F]{1,4}:){1,6}(:[0-9a-fA-F]{1,4}){1})        1::8      do
1:2:3:4:5:6::8
((([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){2})        1::7:8
do 1:2:3:4:5::7:8
((([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){3})        1::6:7:8   do
1:2:3:4::6:7:8
((([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){4})        1::5:6:7:8 do
1:2:3::5:6:7:8
((([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){5})        1::4:5:6:7:8
do 1:2::4:5:6:7:8
((([0-9a-fA-F]{1,4}:){1}(:[0-9a-fA-F]{1,4}){6})          1::3:4:5:6:7:8

(:(:[0-9a-fA-F]{1,4}){1,7})                                ::8      do
::2:3:4:5:6:7:8
```

```

([0-9a-fA-F]{1,4}){1}:(:[0-9a-fA-F]{1,4}){1,6}) 1::8 do
1::3:4:5:6:7:8
([0-9a-fA-F]{1,4}:){2}:(:[0-9a-fA-F]{1,4}){1,5}) 1:2::8 do
1:2::4:5:6:7:8
([0-9a-fA-F]{1,4}:){3}:(:[0-9a-fA-F]{1,4}){1,4}) 1:2:3::8 do
1:2:3::5:6:7:8
([0-9a-fA-F]{1,4}:){4}:(:[0-9a-fA-F]{1,4}){1,3}) 1:2:3:4::8 do
1:2:3:4::6:7:8
([0-9a-fA-F]{1,4}:){5}:(:[0-9a-fA-F]{1,4}){1,2}) 1:2:3:4:5::8
do 1:2:3:4:5::7:8
([0-9a-fA-F]{1,4}:){6}:(:[0-9a-fA-F]{1,4}){1}) 1:2:3:4:5:6::8
do 1:2:3:4:5:6::8

(::) ::

(fe80:(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,}) fe80::7:8%eth0
fe80::7:8%1 (link-local IPv6 addresses with zone index)

(:(ffff(:0{1,4}){0,1}:){0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]).){3,3}
(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9])) ::255.255.255.255
::ffff:255.255.255.255 ::ffff:0:255.255.255.255 (IPv4-mapped IPv6
addresses and IPv4-translated addresses)

(([0-9a-fA-
F]{1,4}:){1,4}:(25[0-5]|(2[0-4]|1{0,1}[0-9])){0,1}[0-9]).){3,3}(25[0-5]|(2[0
-4]|1{0,1}[0-9])){0,1}[0-9])) 2001:db8:3:4::192.0.2.33 64:ff9b::192.0.2.33
(IPv4-Embedded IPv6 Address)

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