What are MIT's IP ranges?

Q: What are MIT's IP ranges?

What IP addresses might you see at MIT ?

Answer

> This article collects information from multiple sources and presents it on a single page as a convenience, but could be out of date or missing information.

The ranges in the following table were compiled from a variety of locations, including ARIN data and an MIT Libraries page.

Range	CIDR Notation	ARIN Info	Organizational Entity
18.0.0.0 - 18.31.255.255	18.0.0.0/11	MIT-2	Most of campus. Also see: Standard Building Subnets
128.30.0.0 - 128.31.255.255	128.30.0.0/15	MIT-2	128.30.0.0/16: Official CSAIL research activities (offices and servers in 32 and OC40) 128.31.0.0/16: Guest (i.e., non-CSAIL) activities hosted on the CSAIL network (in 32 and OC40) 128.31.4.0/22: Laboratory for Information and Decision Systems 128.31.16.0/24: EECS lounge and classroom in 32 basement
128.52.0.0 - 128.52.255.255	128.52.0.0/16	MIT-2	CSAIL and non-CSAIL virtual machines in CSAIL's OpenStack cloud
129.55.0.0 - 129.55.255.255	129.55.0.0/16	MIT	Lincoln Laboratory, Lexington, MA
192.52.61.0 - 192.52.66.255	See note 2 below	MIT-7	Haystack Observatory, Tyngsboro, MA
198.125.160.0 - 198.125.163.255	198.125.160.0/22	MITNS	ESnet* range used by LNS (Lab for Nuclear Science).
198.125.176.0 - 198.125.191.255	198.125.176.0/20	PSFC-1	ESnet* range used by Plasma Science Fusion Center, on campus
2603:4000:: - 2603:40ff:ffff:ffff:ffff:ffff:ffff:ffff	2603:4000::/24	MIT-2	Most of campus as/when IPv6 is rolled out.

*ESnet (Energy Sciences Network) is used by universities, research labs, national labs, etc.

Note 1: There are two separate ranges: 128.30.0.0/16 and 128.31.0.0/16.
Note 2: Haystack's IP range is actually 6 consecutive /24s. That is, 192.52.61.0/24, 192.52.62.0/24, 192.52.63.0/24, etc.

Woods Hole

Woods Hole Oceanographic Institution ("WHOI") has a long affiliation with MIT, and in some cases, their machines count as "on campus" (e.g. for access to outgoing-legacy.mit.edu), whereas in other cases they don't (access to some MIT Libraries digital resources). Users at Woods Hole who are unable to access certain digital resources on campus should try using the Remote Access VPN or contacting the administrators of that resource.

Woods Hole has the IP address range 128.128.0.0/16 (128.128.x.x http://whois.arin.net/rest/net/NET-128-128-0-0-1)

Remote Access VPN Address Pools

- 18.30.128.0/17
- 18.28.128.0/17
- 18.19.0.0/18 {*when connected from MITnet*}

Note: IP addresses assigned to devices that are connected to the Remote Access VPN from outside of MITnet (e.g. connected from a user's home network) will be NAT'd to a Prisma Access IP address (the IP of the VPN gateway) when communicating out to sites on the Internet. No

NAT is applied when communicating with hosts/sites on MITnet.

Wi-Fi

- 10.29.0.0/16, 10.31.0.0/16 --~~NAT~~--> 18.29.0.0/16 [MIT SECURE], [MIT]
- 10.189.0.0/17 --~~NAT~~--> 192.54.222.0/24 [MIT GUEST]

Note: Devices connected to the Wi-Fi networks are assigned an IP address, which will be NAT'd to the target range when communicating out to sites on the Internet (or to destinations on the "MIT GUEST" Wi-Fi network). No NAT is applied when communicating with hosts/sites on MITnet.

Campus Firewall NAT Pool

- 18.10.0.0/16
- 18.11.0.0/16

Note: The campus firewall NAT pool applies to any device on the MITnet wired (not Wi-Fi) networks assigned a 10.x.x.x IP address. When those devices communicate out to sites on the Internet, the 10-net IP address will be NAT'd to an IP within the campus firewall NAT pool. No NAT is applied when communicating with hosts/sites on MITnet.