

DHCP vs Static IP

Which is best for Trade Show Internet?

Whether your trade show setup requires big screens with cool videos or just a couple laptops, you're going to need internet access.

The short answer is that DHCP is usually the best way to go for trade show internet needs. Here's why, how IP addressing works, and when you might need static.

What's the difference between static and DHCP IP?

An IP address is a number that identifies each device on a network. With a static IP address, this unique number stays the same. With a DHCP (**D**ynamic **H**ost **C**onfiguration **P**rotocol) address, this number is automatically assigned to each device from a pool of available numbers on the network. Just like it sounds: static is permanent; dynamic is temporary.

There's a reason it's called an address.

The internet works a lot like a postal system. Just like street addresses identify where mail should be delivered, IP addresses identify where data should be delivered.

For example, let's say you want to mail a letter. You'd write something like, "17 Cherry Tree Lane, Las Vegas, NV, 89123." The address tells the post office that the letter's destination is in the U.S.; the zip code identifies which city and state it's in. (Fun fact: the post office largely ignores what you write as the city and state, only the humans looking at it really care. You could put "Disneyland, NV," and as long as you have the right street address and zip, your letter would still arrive at its proper destination).

The letter then goes to the sorting center for that zip code. The sorting center narrows down the location by street address. It gets handed to your mail carrier and, voilà, "You've Got Mail!"

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This whole scenario corresponds similarly to the way the internet looks up addresses. That single house on Cherry Tree Lane would have a single (static) IP Address. For example, click on or type 35.238.194.115 or 54.244.12.90 into a browser. Those are static addresses or IP addresses that don't change. They resolve to hypernetworks.com and Disney.com respectively.

When do you need a static IP?

If you want an IP address that doesn't change for people in the outside world to get to your equipment, you need a static IP address. That makes static necessary for equipment that needs to be managed remotely, like servers and [VPN hardware](#). Companies generally use static IP at their data centers and core infrastructure. Take a look at the chart below to get an idea of what needs static IP.

Setting up Web server (APACHE)

Main configuration file of Apache is `httpd.conf`

`/etc/httpd/conf/httpd.conf`

Root Document i.e. `index.html` is in

`/var/www/html`

- `/* USE of grep *`

Some grep options

`grep ^abc` when we write this, then we mean that in the beginning of line `abc` string should be present

`grep -B1 ^abc B1` here just means that show us 1 line **before** our result

Similarly, `A10` means show 10 lines **after** our result

- firewall services

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