Domain name system

DNS servers video

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A note about syntax checker activities

When you are learning how to modify device configurations, you might want to start in a safe, non-production environment before trying it on real equipment.

There are different simulation tools to help build your configuration and troubleshooting skills.

Because these are simulation tools, they typically do not have all the functionality of real equipment.

One such tool is the syntax checker.

In each syntax checker, you are given a set of instructions to enter a specific set of commands.

You cannot progress in syntax checker unless the exact and full command is entered as specified.

More advanced simulation tools, such as packet tracer, let you enter abbreviated commands, such as you would do on real equipment.

Syntax checker - the nslookup command

When you manually config a device for network connectivity, recall that you also include a DNS server address.

For home networks, this configuration is typically handled by DHCP running on the home router.

Your ISP provides the DNS server address to your home router, and then your home router uses DHCP to send the configuration to all the devices connected to its network.

When you type the name for a website, such as [www.cisco.com,](http://www.cisco.com,) the DNS server client running on your device first asks the DNS server for the IP address, such as 172.230.155.162, before sending out your HTTP request.

You can use the command nslookup to discover the IP address for any domain name.