Nathan Fitzgerald

Domain Name Server

DNS is essentially a network of servers designed to get you where you want to go on the web. First you type the web address into your browser. Then a nearby DNS server will check its database to see if the web address is on its server and if it’s not it will check the next DNS server. Continuing until it is able to locate the server that contains the web address in its cache. This DNS server will then give your web browser the IP address that links you to the website.

Email

Emails are sent through a similar system. First the user composes the message on their email client, such as gmail, yahoo, or outlook. The client then uploads the email to the Simple Mail Transfer Protocol server, otherwise known as SMTP. Next the SMTP will check the DNS to find out where the recipient’s email server is located. Once found SMTP will deliver the message to the recipient’s email server.