Scripting and DNS troubleshooting in a Linux environment

Blake Samani

When a user cannot access the internet, or a specific site becomes suddenly inaccessible, one of the causes can be DNS errors. DNS stands for domain name system. DNS translates the name of a given website or domain to its IP address. DNS servers are responsible for resolving domain names. Troubleshooting DNS issues is a big problem in the system administration world. It can be time consuming and cumbersome. This problem needs a solution because system administrators do not want to waste time looking up commands and syntax every time they run into this problem or typing each command one by one. This project will attempt to use scripting in bash to make the process of troubleshooting DNS issues somewhat streamlined and faster for the day-to-day life of a system administrator. This will be accomplished by taking common bash commands the sys admins use to troubleshoot DNS issues and combine them into one script. This will save the admin time. The problem solved with my solution is time. Time is money as they say. I don’t believe my solution is unique, however it is definitely useful. Surely many administrators or even everyday users employ such techniques as scripting to automate troubleshooting.

I couldn’t find any other scripts on the internet that does the same thing, however I did find all the separate commands. I learned that you can same a lot of time with simple scripts. I achieved a finished working script that can save an admin precious time.