

1. Relevant RFC link: <https://www.rfc-editor.org/rfc/rfc1282.txt>

One of the most glaring issues with the rlogin protocol is the ability to set up “trusted” devices that are able to login through the rlogin protocol without needing a password. If, for instance, I were to setup several of the machines I maintain with this feature, then compromising any one of those systems would give an attacker access to the others. From the point of view of a system administrator, allowing your users to set up passwordless entry into your system is a hack waiting to happen; and so, it makes sense to disable rlogin before it creates a problem.

2. In order to retrieve a website from an unknown IP address the needed protocols, other than HTTP, are the DNS system and a way to send and receive information from it in the form of UDP communication. The first step before the webpage can be found is to actually find the IP address of the server hosting that information. In order to get that information, your computer will go out to the DNS system, running through the root server to the top level domain server, to the authoritative name server, and then to any other sub servers until the URL’s IP address has been found. All of this communication runs on a UDP connection on port 53. From there, the webpage is requested from the newly learned IP address using HTTP. The HTTP client will send a GET request and then the server will return the requested web document.