

CISC 367 – Spring 2016

Homework Assignment – Firewall

1 Firewall with iptables

Design a firewall for your Linux virtual machine (VM) using the `iptables` command. Specifically, write `iptables` rules to do the following.

- Allow for SSH (Secure Shell) access to your machine from only the `udel.edu` domain.
- Assuming you are running an HTTPD server on your VM that can make available your entire home directory to the outside world, write a rule that allows only a single IP address in the Internet to access your machine for the HTTP service.
- Permit `Auth` that is used by services like SMTP and IRC.
- Accept ICMP Echo requests (as used by ping) coming from the outside.
- Respond back with TCP RST or ICMP unreachable for incoming requests for blocked ports.
- Place no restriction on outbound packets.

2 Firewall with Raspberry Pi

How to setup a Raspberry Pi firewall