

Marked Project

Required

A.

You are to secure a Linux machine by restricting remote root access by starting another ssh daemon on an unused privileged port. You need to create a separate configuration file in `/etc/ssh` for the new daemon as well as a startup script in the appropriate directory.

1. ssh service should start on run levels 2345
2. new ssh daemon should be using a separate configuration file and such requirement should be enforced by setting a variable in the system configuration directory
3. remote access to server should be allowed for root only.
4. existing configuration for ssh daemon on port 22 should be modified to restrict root access
5. PAM configuration should be adjusted accordingly
6. Use man pages to find out more about `sshd` and `sshd_config`
7. after daemon is running properly and access to server by root using a password is successful, implement a way to access server remotely **without** using a password (Hint: public-key authentication)

Please feel free to lock down the server by including any other ssh configuration directive that you might deem appropriate.

Marks 70%

B.

You are to setup a gateway using ssh port forwarding facility. For example setup up an smtp port forwarding on the main machine to act as an smtp gateway for all the internal machines. First make sure the main internal machine is tunneling all outgoing smtp traffic to the external machine, then setup the same machine as an smtp gateway.

Marks 30%