

Basic Network Settings - Assignment

- Network settings
 - Find IP address, method of getting IP address, MAC address, routing table, DNS settings, check the availability of the network using ICMP.
- Configure SSH service to:
 - Disable root login in the SSH service configuration.
 - disable password authentication (only key-based),
 - disable X11 forwarding.

Basic Network Settings – assignment (cont.)

- Firewall settings:
 - Allow incoming connection requests for service SSH.
 - Allow incoming connection requests from IP addresses in the local network to all well-known ports.
 - Other incoming traffic is logged and rejected.
 - Configure firewall rules to load during start-up.
- Configure SSH on server 'student' to allow authentication without password (using ssh key).
- What is the preferable order of network settings (tasks) from the security point of view?
- In this lab, you can use the default firewall rules. If the assignment requires, they need to be updated / extended accordingly.
- Number of points – net: 0.5, firewall: 0.5, SSH: 0.5, 'student': 0.5.

References

- `/usr/share/doc/initscripts-*/sysconfig.txt`
- `/etc/services`
- `man resolv.conf`
- `man tcpd`, `man 5 hosts_access`
- `man route`
- `man ifconfig`
- `man sshd`, `man ssh`, `man ssh-keygen`
- `man iptables`