

# 205.3 - Troubleshooting Network Issues

## Weight: 4

Description: Candidates should be able to identify and correct common network setup issues, to include knowledge of locations for basic configuration files and commands.

## Key Knowledge Areas:

- Location and content of access restriction files
- Utilities to configure and manipulate ethernet network interfaces
- Utilities to manage routing tables
- Utilities to list network states.
- Utilities to gain information about the network configuration
- Methods of information about the recognized and used hardware devices
- System initialization files and their contents (SysV init process)
- Awareness of NetworkManager and its impact on network configuration

## Terms and Utilities:

- ip
  - ifconfig
  - route
  - ss
  - netstat
  - /etc/network/, /etc/sysconfig/network-scripts/
  - ping, ping6
  - traceroute, traceroute6
  - mtr
  - hostname
  - System log files such as /var/log/syslog, /var/log/messages and the systemd journal
  - dmesg
  - /etc/resolv.conf
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- /etc/hosts
  - /etc/hostname, /etc/HOSTNAME
  - /etc/hosts.allow, /etc/hosts.deny
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