

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

- /etc/hosts
- /etc/hostname, /etc/HOSTNAME
- /etc/hosts.allow, /etc/hosts.deny