RedHat Certified System Administrator (RHEL 9)

Firewalling

- The firewall is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules.
- The firewall in RHEL is implemented using the firewalld service. `systemctl status firewalld`
- The firewall in RHEL uses zones to group network interfaces and assign a security level to each group.
    - List the available zones: `firewall-cmd --get-zones`
- The firewall in RHEL uses services to define the ports that are allowed to be accessed.
    - List the available services: `firewall-cmd --get-services`

firewall-cmd

- The firewall-cmd utility is used to manage the firewall.
- Check the status of the firewall with the following command:
    - `` `firewall-cmd --state` ``
- Check the current zone with the following command:
    - `` `firewall-cmd --get-active-zones` ``
- Check the services in the current zone with the following command:
    - `` `firewall-cmd --list-services` ``
- Check the ports in the current zone with the following command:
    - `` `firewall-cmd --list-ports` ``
- Add a service to the current zone with the following command:
    - `` `firewall-cmd --add-service service --permanent` ``
    - service: Name of the service
    - --permanent: Make the change permanent.
- Reload the firewall with the following command, so that the change takes effect:
    - `` `firewall-cmd --reload` ``
- Check the services in the current zone with the following command:
    - `` `firewall-cmd --list-services` ``