Security Implementation Measures or Tools

- Manual security configuration
  - User Accounts
    - Securing /etc/passwd
    - Securing /etc/group
    - PAM policies
    - User accounts access
    - Implementing strong passwords
    - Password update policies
  - File Systems
    - Securing files and directories
    - Restricting files and directories access
    - Encrypting file contents
  - System access
    - Restrict who gets access to the system through SSHD configuration
    - Firewall policy (iptables and firewalld)
  - System security (system configuration files)
    - Configuration files in /etc directory
  - OS network layer security
    - Static IP
    - NIC bonding
    - Firewall

- Automate through scripts
  - Create a script
    - A script that will run and apply all the above settings
  - Copy over or access over network
    - A script on the network which can be mounted and executed
  - Execute one by one on each server
    - Login individually to each server and execute the script

- Deployment tools
  - Ansible
  - Puppet
  - Chef etc.

- 3rd part security software (e.g. McAfee) – Not for all security measures