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QUESTION 1

A junior systems administrator is tasked with providing the `network_administrators` group the ability to perform `sudo` without prompting for a password. Which of the following steps should the administrator perform to accomplish this task? (Choose two.)

- A. Use `visudo` to edit the `/etc/sudoers` file and add `network_administrators` to the "wheel" group
- B. Use `vi` to edit the `/etc/sudo` file and add `network_administrators` to the "wheel" group
- C. Provide all `network_administrators` with the "root" account password
- D. Add the `network_administrators ALL=(ALL) NOPASSWD: ALL` directive to the `/etc/sudoers` file
- E. Add the `network_administrators =(ALL) NOEXEC: ALL` directive to the `/etc/sudoers` file

Correct Answer: CD

QUESTION 2

A systems engineer was configuring a small, single-board device running Linux when the device lost power during an outage. The device was running an SSH server and was set up to obtain an IP address via DHCP. The engineer does not know the hostname of the device but does know the manufacturer and the network it is on.

Which of the following would output the MOST useful results when attempting to find the device's IP address?

- A. `arp`
- B. `whois`
- C. `nmap`
- D. `ping`
- E. `netcat`

Correct Answer: A

Reference: <https://www.pcwdld.com/find-device-or-ip-address-using-mac-address>

QUESTION 3

Ann, a Linux administrator, wants to edit a configuration management file. When she opens the file to edit, her text editor reports that the file has been opened in read-only mode. She then tries to edit the file as root by elevating via `sudo` and

is still unable to save any changes. The error message in her text editor says that the read-only option is set on the file. Ann checks the permissions on the file and sees the following:

```
-rw-rw-r-- 1 root wheel 30 Jun 13 15:38 infrastructure.yml
```



Which of the following commands is the BEST option to allow her to successfully modify the file?

- A. `chmod 600 infrastructure.yml`
- B. `chown root: infrastructure.yml`
- C. `chattr -i infrastructure.yml`
- D. `chmod o+w infrastructure.yml`

Correct Answer: D

Reference: <https://cets.seas.upenn.edu/answers/chmod.html>

QUESTION 4

An administrator wants to be able to access a remote server.

After creating an SSH key pair, which of the following describes where the public key should be placed to allow for key-based authentication?

- A. `~/.ssh/authorized_keys`
- B. `~/.ssh/id_rsa.pub`
- C. `~/.ssh/known_hosts`
- D. `~/.ssh/config`

Correct Answer: A

Reference: <https://www.digitalocean.com/community/tutorials/how-to-configure-ssh-key-based-authentication-on-a-linux-server>

QUESTION 5

A junior Linux administrator needs to create 16 empty files quickly that will contain sales information for each quarter for the past four years. Which of the following commands will meet this requirement?

- A. `touch {2015,2016,2017,2018}.{q1,q2,q3,q4}`
- B. `touch [2015,2016,2017,2018].[q1,q2,q3,q4]`
- C. `touch `2015,2016,2017,2018`. `q1,q2,q3,q4``
- D. `touch {2015.2016.2017.2018}.{q1.q2.q3.q4}`

Correct Answer: C