

# Linux Software Management Quiz

Topics: Packages and repositories, dnf package manager, rpm commands

## Part A: Multiple Choice

1. What is a software repository?
  - a) A local folder for backups
  - b) A remote or local collection of software packages
  - c) A running service
  - d) A system log file
2. Which command updates all installed packages on a system?
  - a) dnf install
  - b) dnf refresh
  - c) dnf update
  - d) dnf upgrade-all
3. Which dnf command shows installed packages?
  - a) dnf list
  - b) dnf list installed
  - c) dnf info
  - d) dnf history
4. What does the command `dnf search nginx` do?
  - a) Installs nginx
  - b) Removes nginx
  - c) Searches repositories for nginx
  - d) Shows nginx configuration
5. Which rpm command removes a package?
  - a) rpm -i
  - b) rpm -qf
  - c) rpm -e
  - d) rpm -u

## Part B: True / False

6. dnf automatically resolves package dependencies.
7. rpm can download packages from repositories.
8. dnf history shows past install and remove actions.
9. rpm -qf shows which package owns a file.
10. Removing a package with rpm also removes its dependencies automatically.

## Part C: Practical / Command Questions

11. Install the package **httpd**.
12. Remove the package **nano**.
13. Display detailed information about the package **bash**.
14. Show the history of package management transactions.
15. Find out which package owns the file **/usr/bin/passwd**.

# Answer Key

1. b) A remote or local collection of software packages
2. c) dnf update
3. b) dnf list installed
4. c) Searches repositories for nginx
5. c) rpm -e
6. True
7. False (rpm works with local packages only)
8. True
9. True
10. False (rpm does not resolve dependencies)
11. sudo dnf install httpd
12. sudo dnf remove nano
13. dnf info bash
14. dnf history
15. rpm -qf /usr/bin/passwd