#### Red Hat System Administration I

#### UNIT 3

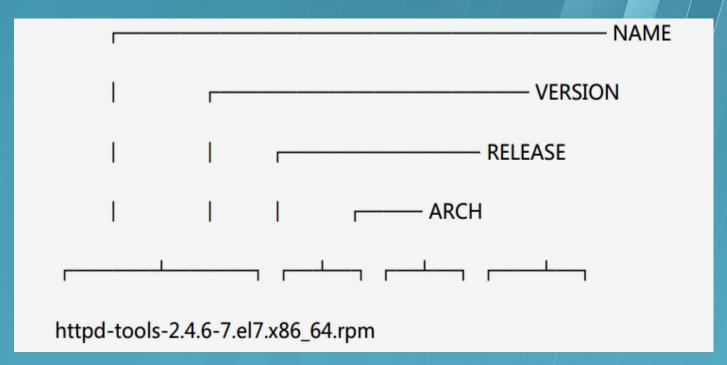
Installingand Updating Software Packages

#### **Objectives**

- Explain what an RPM package is and how RPM packages are used to manage software on a Red Hat Enterprise Linux system.
- Find, install, and update software packages using the yum command.
- Enable and disable use of Red Hat or third-party YUM repositories.
- Examine and install downloaded software package files.

## Software packages and RPM

name-version-release.architecture:



### The yum package manager

- yum config file
  - letc/yum.conf
- yum source file directory
  - letclyum.repos.d

#### add yum source

- create a file in letclyum.repos.dl like this
  - vim /etc/yum.repos.d/test.repo
    - [yum source name]
    - name= yum source description
    - baseurl=file|http|nfs|ftp yum source address
    - enable=0|1 yum srouce enable or disable
    - gpgcheck=0|1 check package's gpgkey or not
    - gpgkey=file gpgkey's address
- yum clean all

### yum command

Task:	Command:
List installed and available packages by name	yum list [NAME-PATTERN]
List installed and available groups	yum grouplist
Search for a package by keyword	yum search KEYWORD
Show details of a package	yum info PACKAGENAME
Install a package	yum install PACKAGENAME
Install a package group	yum groupinstall "GROUPNAME"
Update all packages	yum update
Remove a package	yum remove PACKAGENAME
Display transaction history	yum history

## Examining downloaded packages with rpmExamining RPM packagefiles

Task:	Command:
Display information about a package	rpm -q -i NAME
List all files included in a package	rpm -q -l NAME
List configuration files included in a package	rpm -q -c NAME
List documentation files included in a package	rpm -q -d NAME
Show a short summary of the reason for a new package release	rpm -qchangelog NAME
Display the shell scripts included in a package	rpm -qscripts NAME

## Using yum to install local package files

- rpm -ivh PACKAGEFILE.rpm
- yum localinstall PACKAGEFILE.rpm

# Extracting files from RPM packages

• rpm2cpio packagename |cpio -id

