

# x01 - Paquets DNF / RPM

Curs 2021 - 2022

ASIX M01-ISO UF1-A01-16 Administració de paquets amb DNF i rpm

<b>Paquets amb DNF i RPM</b>	<b>1</b>
Descripció	1
Gestió de paquets amb rpm	1
Gestió de paquets amb DNF / YUM	2
Gestió de repositoris	3
Repositoris free/nonfree i altres repos	5
Pràctica examinar/instal·lar adobe-release repo	6
Pràctica instal·lar Docker per Centos	7
Exercicis d'exemple	8

## Paquets amb DNF i RPM

### Descripció

#### Conceptes clau:

- ☐ Paquets amb rpm
- ☐ Paquets amb DNF (YUM)
- ☐ Repositoris

#### Ordres a treballar:

- ☐ rpm
- ☐ dnf (yum)
- ☐ /etc/yum.repos.d
- ☐ /etc/pki/rpm-gpg

### Gestió de paquets amb rpm

```
rpm -qa  
rpm -qa | wc -l
```

```
rpm -ql nmap
rpm -ql nmap | grep bin
rpm -ql tree
```

```
rpm -qf /etc/passwd
rpm -qf /etc/fstab
rpm -qf /usr/bin/tree
rpm -qf /usr/bin/ls
rpm -qi tree
rpm -qi nmap
```

```
rpm -q --requires tree
rpm -q --provides tree
```

```
rpm -q --requires procps-ng
rpm -q --provides procps-ng
```

```
dnf download nmap
ls -l nmap-7.70-5.el8.x86_64.rpm
file nmap-7.70-5.el8.x86_64.rpm
rpm -qi nmap-7.70-5.el8.x86_64.rpm
```

```
rpm -i nmap-7.70-5.el8.x86_64.rpm
rpm -i <url del paquet>
```

```
rpm --reinstall nmap-7.70-5.el8.x86_64.rpm
```

```
rpm --upgrade nmap-7.70-5.el8.x86_64.rpm
rpm -U nmap-7.70-5.el8.x86_64.rpm
```

```
rpm -e nmap
rpm --erase nmap
```

```
dnf download xinetd
ls -la xinetd-2.3.15-24.el8.x86_64.rpm
file xinetd-2.3.15-24.el8.x86_64.rpm
rpm -qi xinetd-2.3.15-24.el8.x86_64.rpm
```

```
rpm -i xinetd-2.3.15-24.el8.x86_64.rpm
rpm -e xinetd
```

## Gestió de paquets amb DNF / YUM

```
yum clean all

yum upgrade
deprecated [yum update]

yum repolist
```

```
yum install xinetd
yum upgrade xinetd
yum remove xinetd

yum download nmap
yum install ./nmap-7.70-5.el8.x86_64.rpm
yum install <url del paquet a instal·lar>

yum install <ruta a un file/prog que no existeix i es vol instal·lar>
yum install /usr/bin/ldapsearch
```

```
yum info pwgen

yum search pwgen
yum search nmap
yum search ldap

yum provides cal
yum provides ldapssearch
yum provides passwd
yum provides /etc/passwd
yum provides /etc/fstab

yum repoquery -l xinetd [sense estar instal·lat]
```

```
yum deplist tree
yum repoquery --requires nmap

yum repoquery --provides tree
yum repoquery --provides httpd
```

```
yum group

yum group list
yum group list --installed
yum group list --available
```

```
yum install @nomgrup
yum group install nomgrup

yum install @Virtualization
yum install "@Host de virtualizació"
yum group instal "Empaquetador de Fedora"
```

```
yum remove @nomgrup
yum group remove nomgrup

yum upgrade @nomgrup
yum group upgrade nomgrup
```

```
yum group info "Host de virtualizació"
yum group info "Debugging Tools"
yum group -v info "GNOME"
```

## Gestió de repositoris

```
yum repolist
yum repolist --all
yum repolist --enabled
yum repolist --disabled

yum repolist fasttrack
yum repolist baseos
```

```
[ yum repoquery == rpm -q però als repoas]

yum repoquery
yum repoquery | wc -l
```

```
yum repoquery ldap

yum repoquery --repo extras
yum repoquery --repo baseos | wc -l
```

```
yum repository-packages jenkins list
yum repository-packages baseos list | head 10
yum repository-packages extras list --available
yum repository-packages baseos list --installed
```

```
# tree /etc/yum.repos.d/
/etc/yum.repos.d/
├── CentOS-Linux-AppStream.repo
├── CentOS-Linux-BaseOS.repo
├── CentOS-Linux-ContinuousRelease.repo
├── CentOS-Linux-Debuginfo.repo
├── CentOS-Linux-Devel.repo
├── CentOS-Linux-Extras.repo
├── CentOS-Linux-FastTrack.repo
├── CentOS-Linux-HighAvailability.repo
├── CentOS-Linux-Media.repo
├── CentOS-Linux-Plus.repo
├── CentOS-Linux-PowerTools.repo
├── CentOS-Linux-Sources.repo
├── epel-modular.repo
├── epel-playground.repo
├── epel.repo
├── epel-testing-modular.repo
├── epel-testing.repo
└── jenkins.repo
```

```
# cat /etc/yum.repos.d/CentOS-Linux-BaseOS.repo
# CentOS-Linux-BaseOS.repo
#
# The mirrorlist system uses the connecting IP address of the client and the
# update status of each mirror to pick current mirrors that are geographically
# close to the client. You should use this for CentOS updates unless you are
# manually picking other mirrors.
#
# If the mirrorlist does not work for you, you can try the commented out
# baseurl line instead.

[baseos]
name=CentOS Linux $releasever - BaseOS
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=BaseOS&
infra=$infra
#baseurl=http://mirror.centos.org/$contentdir/$releasever/BaseOS/$basearch/os/
gpgcheck=1
enabled=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial
```

```
# cat /etc/yum.repos.d/CentOS-Linux-Extras.repo
# CentOS-Linux-Extras.repo
#
# The mirrorlist system uses the connecting IP address of the client and the
# update status of each mirror to pick current mirrors that are geographically
# close to the client. You should use this for CentOS updates unless you are
# manually picking other mirrors.
#
# If the mirrorlist does not work for you, you can try the commented out
# baseurl line instead.

[extras]
name=CentOS Linux $releasever - Extras
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=extras&
```

```
infra=$infra
#baseurl=http://mirror.centos.org/$contentdir/$releasever/extras/$basearch/os/
gpgcheck=1
enabled=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial
```

```
# cat /etc/yum.repos.d/CentOS-Linux-FastTrack.repo
# CentOS-Linux-FastTrack.repo
#
# The mirrorlist system uses the connecting IP address of the client and the
# update status of each mirror to pick current mirrors that are geographically
# close to the client. You should use this for CentOS updates unless you are
# manually picking other mirrors.
#
# If the mirrorlist does not work for you, you can try the commented out
# baseurl line instead.

[fasttrack]
name=CentOS Linux $releasever - FastTrack
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=fasttrack&infra=$infra
#baseurl=http://mirror.centos.org/$contentdir/$releasever/fasttrack/$basearch/os/
gpgcheck=1
enabled=0
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial
```

```
file /etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial
/etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial: PGP public key block Public-Key (old)
```

[illegible]

## Repositories free/nonfree i altres repos

## RPM Fusion free / nonfree ( Fedora 32)

```
# rpm -ivh
http://download1.rpmfusion.org/free/fedora/rpmfusion-free-release-32.noarch.rpm
# rpm -ivh http://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-release-32.noarch.rpm
```

## Adobe flash plugin

```
# dnf -y install
http://linuxdownload.adobe.com/adobe-release/adobe-release-x86_64-1.0-1.noarch.rpm
```

```
# rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux
# dnf -y install flash-plugin
```

```
# yum repolist
```

## Pràctica examinar/instal·lar adobe-release repo

```
# wget
http://linuxdownload.adobe.com/adobe-release/adobe-release-x86_64-1.0-1.noarch.rpm

# rpm -qi ./adobe-release-x86_64-1.0-1.noarch.rpm
advertencia:./adobe-release-x86_64-1.0-1.noarch.rpm: EncabezadoV3 DSA/SHA1
Signature, ID de clave f6777c67: NOKEY
Name       : adobe-release-x86_64
Version    : 1.0
Release    : 1
Architecture: noarch
Install Date: (not installed)
Group      : System Environment/Base
Size       : 1909
License    : BSD
Signature  : DSA/SHA1, vie 01 abr 2011 19:25:05 CEST, Key ID 3a69bd24f6777c67
Source RPM : adobe-release-x86_64-1.0-1.src.rpm
Build Date : vie 01 abr 2011 19:23:48 CEST
Build Host : fplayerbuild6-lnx.macromedia.com
Relocations: (not relocatable)
Packager   : Adobe Systems Inc.
Vendor     : Adobe Systems Inc.
URL        : http://linuxdownload.adobe.com/
Summary    : linux.adobe.com Repository Configuration
Description :
linuxdownload.adobe.com repository contains RPM packages of Adobe Linux Software

# rpm -i ./adobe-release-x86_64-1.0-1.noarch.rpm
advertencia:./adobe-release-x86_64-1.0-1.noarch.rpm: EncabezadoV3 DSA/SHA1
Signature, ID de clave f6777c67: NOKEY

# rpm -qa | grep adobe-release
adobe-release-x86_64-1.0-1.noarch
```

```
# rpm -ql adobe-release-x86_64
/etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux
/etc/yum.repos.d/adobe-linux-x86_64.repo
```

```
# cat /etc/yum.repos.d/adobe-linux-x86_64.repo
[adobe-linux-x86_64]
name=Adobe Systems Incorporated
baseurl=http://linuxdownload.adobe.com/linux/x86_64/
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux
```

```
# ls /etc/pki/rpm-gpg/
RPM-GPG-KEY-adobe-linux  RPM-GPG-KEY-centosofficial  RPM-GPG-KEY-centostesting
RPM-GPG-KEY-EPEL-8

# file /etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux
/etc/pki/rpm-gpg/RPM-GPG-KEY-adobe-linux: PGP public key block Public-Key (old)
```

[illegible]

```
# yum repolist adobe-linux-x86_64
```

```
# yum install docker-ce docker-ce-cli containerd.io
# systemctl start docker
# docker run hello-world
```

```
# docker run --rm -h myfedora fedora:32 /bin/bash
# docker run --rm -h mydebian debian /bin/bash
```

## Exercicis d'exemple

1. xxx
2. xxx