Solucions dels exercicis del gestor de paquets DNF

Gestió de paquets i repositoris a Fedora. Instal·lació de software amb *dnf*

Exercici 1.

Llisteu tots els paquets instal·lats.

Dnf list all

Exercici 2.

Amb quina opció `dnf` ens mostra a quin paquet pertany l'ordre `useradd`?

[root@j20 ~]# **dnf search useradd**
Last metadata expiration check: 1:36:35 ago on Mon Jan 15 09:59:27 2018.
============================ Matched: useradd
=============================
accountsservice.x86_64 : D-Bus interfaces for querying and manipulating user
            : account information
shadow-utils.x86_64 : Utilities for managing accounts and shadow password files

Exercici 3.

Instal·leu el paquet mc.

[root@j20 ~]# **dnf install mc**
Last metadata expiration check: 1:37:40 ago on Mon Jan 15 09:59:27 2018.
Package mc-1:4.8.19-5.fc24.x86_64 is already installed, skipping.
Dependencies resolved.
Nothing to do.
Complete!

Ja està instal·lat

Exercici 4.

Intenteu instal·lar de nou del paquet mc.

[root@j20 ~]# **dnf reinstall mc**
Last metadata expiration check: 1:47:23 ago on Mon Jan 15 09:59:27 2018.
Dependencies resolved.
==
================================
 Package   Arch   Version   Repository   Size
==
================================
Reinstalling:
 mc   x86_64   1:4.8.19-5.fc24   updates   1.9 M

```
Transaction Summary
========================================================================
================================

Total download size: 1.9 M
Is this ok [y/N]: y
Downloading Packages:
mc-4.8.19-5.fc24.x86_64.rpm                          2.1 MB/s | 1.9 MB    00:00
--------------------------------------------------------------------------------
Total                                                592 kB/s | 1.9 MB    00:03
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Reinstalling: mc-1:4.8.19-5.fc24.x86_64                             1/2
  Erasing    : mc-1:4.8.19-5.fc24.x86_64                              2/2
  Verifying  : mc-1:4.8.19-5.fc24.x86_64                              1/2
  Verifying  : mc-1:4.8.19-5.fc24.x86_64                              2/2

Reinstalled:
  mc.x86_64 1:4.8.19-5.fc24

Complete!
```

Exercici 5.

Quina ordre em troba tots els paquets que continguin la cadena libreoffice? (Filtra el langpack de català)

```
[root@j20 ~]# dnf provides libreoffice
Last metadata expiration check: 1:43:03 ago on Mon Jan 15 09:59:27 2018.
libreoffice-1:5.1.3.2-6.fc24.x86_64 : Free Software Productivity Suite
Repo       : fedora

libreoffice-1:5.1.6.2-8.fc24.x86_64 : Free Software Productivity Suite
Repo       : updates

[root@j20 ~]# dnf search libreoffice | grep 'langpack-ca'
libreoffice-langpack-ca.x86_64 : Catalan language pack for LibreOffice
```

Exercici 6.

Actualitzeu (que no instal·leu) el pack de català de libreoffice a la darrera versió. Com actualitzaries tot el sistema?

```
[root@j20 ~]# dnf search libreoffice | grep 'langpack-ca'
```

libreoffice-langpack-ca.x86_64 : Catalan language pack for LibreOffice
[root@j20 ~]# **dnf install libreoffice-langpack-ca**
Last metadata expiration check: 2:07:02 ago on Mon Jan 15 09:59:27 2018.
Package libreoffice-langpack-ca-1:5.1.6.2-8.fc24.x86_64 is already installed, skipping.
Dependencies resolved.
Nothing to do.
Complete!
dnf upgrade all

Exercici 7.

Instal·leu el grup Virtualization, al menys de dues maneres diferents.

```
[root@j20 ~]# dnf group install virtualization
Last metadata expiration check: 1:52:52 ago on Mon Jan 15 09:59:27 2018.
Dependencies resolved.
================================================================================
===============================
 Group          Packages
================================================================================
===============================
Marking packages as installed by the group:
 @Virtualization    virt-install       libvirt-daemon-config-network      virt-manager
               libvirt-daemon-kvm     qemu-kvm                 virt-viewer
================================================================================
===============================
 Package          Arch          Version          Repository     Size
================================================================================
===============================
Installing:
 libvirt-python       x86_64        1.3.3-3.fc24        updates       255 k
 python-chardet       noarch        2.2.1-5.fc24        fedora        232 k
 python-ipaddr        noarch        2.1.10-4.fc24       fedora        40 k
 python-libxml2       x86_64        2.9.4-2.fc24        updates       227 k
 python2-pysocks      noarch        1.5.6-4.fc24        updates       25 k
 python2-requests     noarch        2.10.0-2.fc24       updates       107 k
 python2-urllib3      noarch        1.15.1-3.fc24       updates       128 k
 virt-install        noarch        1.4.1-2.fc24        updates       93 k
 virt-manager        noarch        1.4.1-2.fc24        updates       636 k
 virt-manager-common      noarch         1.4.1-2.fc24          updates         1.2 M
 virt-viewer         x86_64        4.0-1.fc24         updates       369 k

Transaction Summary
================================================================================
===============================
Install  11 Packages

Total download size: 3.2 M
```

Installed size: 16 M
Is this ok [y/N]: y
Downloading Packages:
(1/11): python-ipaddr-2.1.10-4.fc24.noarch.rpm   99 kB/s | 40 kB   00:00
(2/11): virt-install-1.4.1-2.fc24.noarch.rpm   189 kB/s | 93 kB   00:00
(3/11): virt-manager-1.4.1-2.fc24.noarch.rpm   1.9 MB/s | 636 kB   00:00
(4/11): virt-viewer-4.0-1.fc24.x86_64.rpm   1.4 MB/s | 369 kB   00:00
(5/11): virt-manager-common-1.4.1-2.fc24.noarch.rpm   1.4 MB/s | 1.2 MB   00:00
(6/11): libvirt-python-1.3.3-3.fc24.x86_64.rpm   1.7 MB/s | 255 kB   00:00
(7/11): python2-requests-2.10.0-2.fc24.noarch.rpm   1.2 MB/s | 107 kB   00:00
(8/11): python2-urllib3-1.15.1-3.fc24.noarch.rpm   567 kB/s | 128 kB   00:00
(9/11): python-chardet-2.2.1-5.fc24.noarch.rpm   946 kB/s | 232 kB   00:00
(10/11): python2-pysocks-1.5.6-4.fc24.noarch.rpm   344 kB/s | 25 kB   00:00
(11/11): python-libxml2-2.9.4-2.fc24.x86_64.rpm   476 kB/s | 227 kB   00:00

Total   1.2 MB/s | 3.2 MB   00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Installing : python2-pysocks-1.5.6-4.fc24.noarch   1/11
  Installing : python2-urllib3-1.15.1-3.fc24.noarch   2/11
  Installing : python-chardet-2.2.1-5.fc24.noarch   3/11
  Installing : python2-requests-2.10.0-2.fc24.noarch   4/11
  Installing : libvirt-python-1.3.3-3.fc24.x86_64   5/11
  Installing : python-libxml2-2.9.4-2.fc24.x86_64   6/11
  Installing : python-ipaddr-2.1.10-4.fc24.noarch   7/11
  Installing : virt-manager-common-1.4.1-2.fc24.noarch   8/11
  Installing : virt-install-1.4.1-2.fc24.noarch   9/11
  Installing : virt-manager-1.4.1-2.fc24.noarch   10/11
  Installing : virt-viewer-4.0-1.fc24.x86_64   11/11
Error in file "/usr/share/applications/evince.desktop": "" is an invalid MIME type ("" does not contain
a subtype)**dnf group list**
  Verifying   : virt-install-1.4.1-2.fc24.noarch   1/11
  Verifying   : virt-manager-common-1.4.1-2.fc24.noarch   2/11
  Verifying   : python-ipaddr-2.1.10-4.fc24.noarch   3/11
  Verifying   : virt-manager-1.4.1-2.fc24.noarch   4/11
  Verifying   : virt-viewer-4.0-1.fc24.x86_64   5/11
  Verifying   : python-libxml2-2.9.4-2.fc24.x86_64   6/11
  Verifying   : libvirt-python-1.3.3-3.fc24.x86_64   7/11
  Verifying   : python2-requests-2.10.0-2.fc24.noarch   8/11
  Verifying   : python-chardet-2.2.1-5.fc24.noarch   9/11
  Verifying   : python2-urllib3-1.15.1-3.fc24.noarch   10/11
  Verifying   : python2-pysocks-1.5.6-4.fc24.noarch   11/11

Installed:
  libvirt-python.x86_64 1.3.3-3.fc24   python-chardet.noarch 2.2.1-5.fc24

```
  python-ipaddr.noarch 2.1.10-4.fc24          python-libxml2.x86_64 2.9.4-2.fc24
  python2-pysocks.noarch 1.5.6-4.fc24          python2-requests.noarch 2.10.0-2.fc24
  python2-urllib3.noarch 1.15.1-3.fc24         virt-install.noarch 1.4.1-2.fc24
  virt-manager.noarch 1.4.1-2.fc24          virt-manager-common.noarch 1.4.1-2.fc24
  virt-viewer.x86_64 4.0-1.fc24

Complete!
```

Exercici 8.

Llisteu tots els grups de paquets.

```
[root@j20 ~]# dnf group list
Last metadata expiration check: 1:57:22 ago on Mon Jan 15 09:59:27 2018.
Available environment groups:
   Minimal Install
   Fedora Custom Operating System
   Fedora Server Edition
   Fedora Workstation
   Fedora Cloud Server
   KDE Plasma Workspaces
   Xfce Desktop
   LXDE Desktop
   Hawaii Desktop
   LXQt Desktop
   Cinnamon Desktop
   MATE Desktop
   Sugar Desktop Environment
   Development and Creative Workstation
   Web Server
   Infrastructure Server
   Basic Desktop
 Available groups:
   Administration Tools
   Ansible node
   Audio Production
   Authoring and Publishing
   Books and Guides
   C Development Tools and Libraries
   Cloud Infrastructure
   Cloud Management Tools
   Container Management
   D Development Tools and Libraries
   Design Suite
   Development Tools
   Domain Membership
```

```
    Fedora Eclipse
    Editors
    Educational Software
    Electronic Lab
    Engineering and Scientific
    FreeIPA Server
    Headless Management
    LibreOffice
    MATE Applications
    MATE Compiz
    Medical Applications
    Milkymist
    Network Servers
    Office/Productivity
    Robotics
    RPM Development Tools
    Security Lab
    Text-based Internet
    3D Printing
    Window Managers
    Fonts
    Games and Entertainment
    Hardware Support
    Sound and Video
    System Tools
```

Exercici 9.

Llisteu tots els repositoris configurats

- Per defecte, que ens surt? És a dir, l'ordre que hem utilitzat ens mostra tots els repositoris o només els habilitats (*enabled*)?

- si els volem tots, tants els habilitats com els que no (*enabled/disabled*), quina seria l'ordre?

```
[root@j20 ~]# dnf repolist
Last metadata expiration check: 19:46:10 ago on Wed Jan 17 12:26:57 2018.
repo id              repo name                          status
adobe-linux-x86_64        Adobe Systems Incorporated              3
*fedora               Fedora 24 - x86_64                49,719
*rpmfusion-free         RPM Fusion for Fedora 24 - Free          352
*rpmfusion-free-updates    RPM Fusion for Fedora 24 - Free - Updates     400
*rpmfusion-nonfree        RPM Fusion for Fedora 24 - Nonfree         89
*rpmfusion-nonfree-updates  RPM Fusion for Fedora 24 - Nonfree - Updates   155
*updates              Fedora 24 - x86_64 - Updates          16,495
```

```
[root@j20 ~]# dnf repolist all
```

```
Last metadata expiration check: 19:46:52 ago on Wed Jan 17 12:26:57 2018.
repo id                         repo name           status
adobe-linux-x86_64              Adobe Systems Incorp enabled:     3
*fedora                         Fedora 24 - x86_64   enabled: 49,719
fedora-cisco-openh264           Fedora 24 openh264 ( disabled
fedora-cisco-openh264-debuginfo      Fedora 24 openh264 ( disabled
fedora-debuginfo                Fedora 24 - x86_64 - disabled
fedora-source                   Fedora 24 - Source   disabled
*rpmfusion-free                 RPM Fusion for Fedor enabled:    352
rpmfusion-free-debuginfo            RPM Fusion for Fedor disabled
rpmfusion-free-rawhide              RPM Fusion for Fedor disabled
rpmfusion-free-rawhide-debuginfo      RPM Fusion for Fedor disabled
rpmfusion-free-rawhide-source       RPM Fusion for Fedor disabled
rpmfusion-free-source               RPM Fusion for Fedor disabled
*rpmfusion-free-updates             RPM Fusion for Fedor enabled:    400
rpmfusion-free-updates-debuginfo      RPM Fusion for Fedor disabled
rpmfusion-free-updates-source       RPM Fusion for Fedor disabled
rpmfusion-free-updates-testing      RPM Fusion for Fedor disabled
rpmfusion-free-updates-testing-debuginfo   RPM Fusion for Fedor disabled
rpmfusion-free-updates-testing-source      RPM Fusion for Fedor disabled
*rpmfusion-nonfree              RPM Fusion for Fedor enabled:     89
rpmfusion-nonfree-debuginfo         RPM Fusion for Fedor disabled
rpmfusion-nonfree-rawhide           RPM Fusion for Fedor disabled
rpmfusion-nonfree-rawhide-debuginfo      RPM Fusion for Fedor disabled
rpmfusion-nonfree-rawhide-source    RPM Fusion for Fedor disabled
rpmfusion-nonfree-source            RPM Fusion for Fedor disabled
*rpmfusion-nonfree-updates          RPM Fusion for Fedor enabled:    155
rpmfusion-nonfree-updates-debuginfo      RPM Fusion for Fedor disabled
rpmfusion-nonfree-updates-source    RPM Fusion for Fedor disabled
rpmfusion-nonfree-updates-testing      RPM Fusion for Fedor disabled
rpmfusion-nonfree-updates-testing-debuginfo RPM Fusion for Fedor disabled
rpmfusion-nonfree-updates-testing-source   RPM Fusion for Fedor disabled
*updates                        Fedora 24 - x86_64 - enabled: 16,495
updates-debuginfo               Fedora 24 - x86_64 - disabled
updates-source                  Fedora 24 - Updates  disabled
updates-testing                 Fedora 24 - x86_64 - disabled
updates-testing-debuginfo           Fedora 24 - x86_64 - disabled
updates-testing-source              Fedora 24 - Test Upd disabled
```

Exercici 10.

Instal·leu el repositori necessari per poder instal·lar després `riot` (un client del protocol matrix)

En realitat, que hem fet instal·lant aquest repositori? Quines variables em diuen si el respoitori està activat? Quina variable em diu a quina adreça va a buscar els paquets del repositori?

> **Dnf install riot**
> **dnf info riot**

Exercici 11.

Deshabiliteu el repositori anterior amb una ordre des de la consola i després comproveu que ha canviat la variable a la que es feia referència abans. Torneu a activar-lo després i instal·leu riot.

OBS: @System no és un repositori sinó la manera d'indicar que el paquet ja està instal·lat al sistema

Dnf repolist –disablerepo riot
Dnf repolist –enablerepo riot
dnf reinstall riot