

## EJERCICIO 1

Descarga el paquete ruby

```
curl -O http://nervion.us.es/centos/7/os/x86\_64/Packages/ruby-2.0.0.648-30.el7.x86\_64.rpm
```

rpm -i → Errores de dependencias, el paquete no se puede instalar porque depende de otros paquetes que no están instalados.

## EJERCICIO 2

```
rpm -ivh http://nervion.us.es/centos/7/os/x86\_64/Packages/ruby-2.0.0.648-30.el7.x86\_64.rpm
```

```
/*****/
```

## EJERCICIO 1

man rpm

/-q

## EJERCICIO 2

rpm -a → Lista todos los paquetes de software instalados

rpm -qa | sort → Lista todos los paquetes de software instalados en orden alfabético.

## EJERCICIO 3

```
rpm -qa | sort | sed 's/-[0-9]..*//g'
```

```
rpm -qa | sort | sed 's/-[0-9]..*//g' | less → Less es como more.
```

## EJERCICIO 4 y EJERCICIO 5

```
rpm -qil binutils-2.23.52.0.1-55.el7.x86_64
```

-q :

-i : Muestra información del paquete.

-l : Lista lo que se ha instalado al instalar el paquete.

## EJERCICIO 6

```
rpm -qf /etc/init.d
```

```
rpm -ql chkconfig-1.3.61-5.el7.x86_64 | grep init | less
```

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## EJERCICIO 1

```
rpm -qf /bin/ls → coreutils-8.22-15.el7.x86_64
```

## EJERCICIO 2

```
chown cursoasr /bin/ls
```

```
rpm -V coreutils-8.22-15.el7.x86_64 → .....U... /usr/bin/ls
```

```
touch /bin/ls
```

```
rpm -V coreutils-8.22-15.el7.x86_64 → .....U.T. /usr/bin/ls
```

```
ls -l /bin/ls → -rwxr-xr-x. 1 cursoasr root 117616 Mar 12 12:46 /bin/ls
```

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## EJERCICIO 1

```
mount | grep /dev/sr0 → /dev/sr0 on /run/media/cursoasr/CentOS 7 x86_64 type iso9660
(ro,nosuid,nodev,relatime,uid=1000,gid=1000,ioccharset=utf8,mode=0400,dmode=0500,uhelper=udisks2)
```

```
cd /run/media/cursoasr/"CentOS 7 x86_64"/Packages
```

```
rpm -i `ls | grep ruby-2.0.0`
```

```
warning: ruby-2.0.0.648-30.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY
```

```
error: Failed dependencies:
```

```
    libruby.so.2.0()(64bit) is needed by ruby-2.0.0.648-30.el7.x86_64
    ruby(rubygems) >= 2.0.14.1 is needed by ruby-2.0.0.648-30.el7.x86_64
    ruby-libs(x86-64) = 2.0.0.648-30.el7 is needed by ruby-2.0.0.648-30.el7.x86_64
    rubygem(bigdecimal) >= 1.2.0 is needed by ruby-2.0.0.648-30.el7.x86_64
```

```
rpm -i `ls | grep rubygem | head -n 2 | tail -n 1`
```

```
warning: rubygem-bigdecimal-1.2.0-30.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY
```

```
error: Failed dependencies:
```

```
    libruby.so.2.0()(64bit) is needed by rubygem-bigdecimal-1.2.0-30.el7.x86_64
    ruby(release) is needed by rubygem-bigdecimal-1.2.0-30.el7.x86_64
    ruby(rubygems) >= 2.0.14.1 is needed by rubygem-bigdecimal-1.2.0-30.el7.x86_64
```

/\*\*\*\*\*/

## EJERCICIO 1

/etc/yum.conf → Fichero de configuración de yum.

/etc/yum.repos.d → Ubicación de los ficheros de los repositorios.

Contenidos de un archivo (\*.repo):

1. name → Nombre del repositorio.
2. mirrorlist → Una lista de mirrors desde la cual yum selecciona el más próximo geográficamente.
3. baseurl → Si se usa en lugar de mirrorlist, indica un repositorio fijo.
4. gpgcheck → Indica si se necesita una clave pública para usar el repositorio.
5. gpgkey → La ruta al archivo de la clave pública.
6. enabled → Desabilita el repositorio.

## EJERCICIO 2

/etc/yum.repos.d

vim CentOS-Base.repo → Establecer en todos “enabled=0”

## EJERCICIO 3

mount | grep /dev/sr0 → "/run/media/cursoasr/CentOS 7 x86\_64"

cd /etc/yum.repos.d

vim \*Media\*

baseurl="file:///run/media/cursoasr/CentOS 7 x86\_64"  
enabled=1

yum clean all

Loaded plugins: fastestmirror, langpacks

Cleaning repos: c7-media

Cleaning up everything

Cleaning up list of fastest mirrors

```
yum update
```

```
Loaded plugins: fastestmirror, langpacks
```

```
c7-media | 3.6 kB 00:00:00
(1/2): c7-media/group_gz | 156 kB 00:00:00
(2/2): c7-media/primary_db | 3.1 MB 00:00:00
Determining fastest mirrors
Resolving Dependencies
```

```
/*****/
```

## EJERCICIO 1

```
yum info ruby
```

```
Loaded plugins: fastestmirror, langpacks
```

```
Loading mirror speeds from cached hostfile
```

```
Available Packages
```

```
Name      : ruby
Arch       : x86_64
Version    : 2.0.0.648
Release    : 30.el7
Size       : 69 k
Repo       : c7-media
Summary    : An interpreter of object-oriented scripting language
URL        : http://ruby-lang.org/
License    : (Ruby or BSD) and Public Domain
Description : Ruby is the interpreted scripting language for quick and easy
              : object-oriented programming. It has many features to process text
              : files and to do system management tasks (as in Perl). It is simple,
              : straight-forward, and extensible.
```

## EJERCICIO2

```
yum install ruby
```

```
Loaded plugins: fastestmirror, langpacks
```

```
Loading mirror speeds from cached hostfile
```

```
Resolving Dependencies
```

## EJERCICIO 3

```
yum remove ruby-libs
```

ruby	x86_64	2.0.0.648-30.el7	@c7-media	63 k
ruby-irb	noarch	2.0.0.648-30.el7	@c7-media	157 k
rubygem-bigdecimal	x86_64	1.2.0-30.el7	@c7-media	83k
rubygem-io-console	x86_64	0.4.2-30.el7	@c7-media	16k
rubygem-json	x86_64	1.7.7-30.el7	@c7-media	93 k
rubygem-psych	x86_64	2.0.0-30.el7	@c7-media	105 k
rubygem-rdoc	noarch	4.0.0-30.el7	@c7-media	1.2 M
rubygems	noarch	2.0.14.1-30.el7	@c7-media	589 k

yum remove ruby

ruby-irb	noarch	2.0.0.648-30.el7	@c7-media	157 k
rubygem-bigdecimal	x86_64	1.2.0-30.el7	@c7-media	83k
rubygem-io-console	x86_64	0.4.2-30.el7	@c7-media	16k
rubygem-json	x86_64	1.7.7-30.el7	@c7-media	93 k
rubygem-psych	x86_64	2.0.0-30.el7	@c7-media	105 k
rubygem-rdoc	noarch	4.0.0-30.el7	@c7-media	1.2 M
rubygems	noarch	2.0.14.1-30.el7	@c7-media	589 k

#### EJERCICIO 4

yum list \*gcc\*

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

Installed Packages

gcc.x86_64	4.8.5-16.el7	@c7-media
gcc-c++.x86_64	4.8.5-16.el7	@c7-media
gcc-gfortran.x86_64	4.8.5-16.el7	@c7-media
libgcc.x86_64	4.8.5-16.el7	@c7-media
Available Packages		
compat-gcc-44.x86_64	4.4.7-8.el7	c7-media
compat-gcc-44-c++.x86_64	4.4.7-8.el7	c7-media
gcc-gnat.x86_64	4.8.5-16.el7	c7-media
gcc-objc.x86_64	4.8.5-16.el7	c7-media
gcc-objc++.x86_64	4.8.5-16.el7	c7-media

yum list | grep .\*gcc.\*

gcc.x86_64	4.8.5-16.el7	@c7-media
gcc-c++.x86_64	4.8.5-16.el7	@c7-media
gcc-gfortran.x86_64	4.8.5-16.el7	@c7-media
libgcc.x86_64	4.8.5-16.el7	@c7-media
compat-gcc-44.x86_64	4.4.7-8.el7	c7-media
compat-gcc-44-c++.x86_64	4.4.7-8.el7	c7-media
gcc-gnat.x86_64	4.8.5-16.el7	c7-media
gcc-objc.x86_64	4.8.5-16.el7	c7-media
gcc-objc++.x86_64	4.8.5-16.el7	c7-media

## EJERCICIO 5

yum search backup

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

===== N/S matched: backup =====

amanda.x86\_64 : A network-capable tape backup solution

amanda-client.x86\_64 : The client component of the AMANDA tape backup system

amanda-server.x86\_64 : The server side of the AMANDA tape backup system

bacula-client.x86\_64 : Bacula backup client

Name and summary matches only, use "search all" for everything.

yum search all backup

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

===== Matched: backup =====

amanda.x86\_64 : A network-capable tape backup solution

amanda-server.x86\_64 : The server side of the AMANDA tape backup system

bacula-client.x86\_64 : Bacula backup client

amanda-client.x86\_64 : The client component of the AMANDA tape backup system

bacula-common.x86\_64 : Common Bacula files

bacula-libs.x86\_64 : Bacula libraries

dump.x86\_64 : Programs for backing up and restoring ext2/ext3 filesystems

haproxy.x86\_64 : TCP/HTTP proxy and load balancer for high availability environments

libguestfs.x86\_64 : Access and modify virtual machine disk images

libguestfs-tools.noarch : System administration tools for virtual machines

mt-st.x86\_64 : Tool for controlling tape drives

mtx.x86\_64 : SCSI media changer control program

pax.x86\_64 : POSIX File System Archiver

rear.x86\_64 : Relax-and-Recover is a Linux disaster recovery and system migration tool

rmt.x86\_64 : Provides certain programs with access to remote tape devices

tar.x86\_64 : A GNU file archiving program

xfsdump.x86\_64 : Administrative utilities for the XFS filesystem

## EJERCICIO 6

yum grouplist

Loaded plugins: fastestmirror, langpacks

There is no installed groups file.

Maybe run: yum groups mark convert (see man yum)

Loading mirror speeds from cached hostfile

Available Environment Groups:

- Minimal Install

- Compute Node

- Infrastructure Server

- File and Print Server

- Basic Web Server

- Virtualization Host

- Server with GUI

- GNOME Desktop

- KDE Plasma Workspaces

- Development and Creative Workstation

Available Groups:

- Compatibility Libraries

- Console Internet Tools

- Development Tools

- Graphical Administration Tools

- Legacy UNIX Compatibility

- Scientific Support

- Security Tools

- Smart Card Support

- System Administration Tools

- System Management

Done

yum groupinfo "System Management"

Loaded plugins: fastestmirror, langpacks

There is no installed groups file.

Maybe run: yum groups mark convert (see man yum)

Loading mirror speeds from cached hostfile

Group: System Management

Group-Id: system-management

Description: Various low-level hardware management frameworks.

Optional Packages:

- OpenIPMI

- fence-agents-all

- freeipmi

- freeipmi-bmc-watchdog

- freeipmi-ipmidetected

- ipmitool

- openhpi

- watchdog

yum groupinstall "Basic Web Server"

Installing for group install "Core":

NetworkManager-wifi	x86_64	1:1.8.0-9.el7	c7-media	184k
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Installing for group install "Web Server":

crypto-utils	x86_64	2.4.1-42.el7	c7-media	78 k
httpd	x86_64	2.4.6-67.el7.centos	c7-media	2.7 M
httpd-manual	noarch	2.4.6-67.el7.centos	c7-media	1.3 M
mod_fcgid	x86_64	2.3.9-4.el7	c7-media	79 k
mod_ssl	x86_64	1:2.4.6-67.el7.centos	c7-media	108 k

Installing for dependencies:

httpd-tools	x86_64	2.4.6-67.el7.centos	c7-media	87 k
perl-Newt	x86_64	1.08-36.el7	c7-media	64 k

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## EJERCICIO 1

yum repolist

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

repo id	repo name	status
c7-media	CentOS-7 - Media	3,894

repolist: 3,894

vim \*Base\* → enabled=0 → enabled=1

yum repolist

repo id	repo name	status
base/7/x86_64	CentOS-7 - Base	9,591
c7-media	CentOS-7 - Media	3,894
centosplus/7/x86_64	CentOS-7 - Plus	90
extras/7/x86_64	CentOS-7 - Extras	435
updates/7/x86_64	CentOS-7 - Updates	2,397

yum list updates

## EJERCICIO 2

yum update