

DESPLIEGE-PSSH

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Fecha : 03/10/2021

Clase : Despliege Web

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Instalación pssh y epel-release

Centos (servidor)

```
pablo@CTSPHG bin1$ sudo yum install epel-release
[sudo] password for pablo:
Última comprobación de caducidad de metadatos hecha hace 2:33:16, el mar 28 sep 2021 12:07:52 EDT
Dependencias resueltas.
=====
Paquete                Arquitectura    Versión          Repositorio      Tam.
=====
Instalando:
epel-release            noarch          8-11.el8          extras            24 k
Resumen de la transacción
=====
Instalar 1 Paquete

Tamaño total de la descarga: 24 k
Tamaño instalado: 35 k
¿Está de acuerdo [s/N]? y
Descargando paquetes:
epel-release-8-11.el8.noarch.rpm          199 kB/s | 24 kB    00:00
-----
Total                                     29 kB/s | 24 kB    00:00
advertencia:/var/cache/dnf/extras-2770d521ba03e231/packages/epel-release-8-11.el8.noarch.rpm: EncabezadoV3 RSA/SHA256 Signature, ID de clave 8483c65d: NOKEY
CentOS Linux 8 - Extras
Importando llave GPG 0x8483C65D:
ID usuario: "CentOS Official Signing Key" <security@centos.org>
Huella   : 99DB 70FA E1D7 CE22 7FB6 4882 05B5 55B3 8483 C65D
Desde    : /etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial
```

```
pablo@CTSPHG bin1$ sudo yum install pssh
Extra Packages for Enterprise Linux Modular 8 - x86_64          397 kB/s | 955 kB    00:02
Extra Packages for Enterprise Linux 8 - x86_64                1.0 MB/s | 10 MB    00:10
Última comprobación de caducidad de metadatos hecha hace 0:00:01, el mar 28 sep 2021 14:42:00 EDT.
Dependencias resueltas.
=====
Paquete                Arquitectura    Versión          Repositorio      Tam.
=====
Instalando:
pssh                    noarch          2.3.1-29.el8          epel              58 k
Instalando dependencias:
python3-pip             noarch          9.0.3-19.el8          appstream         20 k
python36                x86_64          3.6.8-2.module_el8.4.0+790+083e3d81 appstream         19 k
Activando flujos de módulos:
python36                3.6
Resumen de la transacción
=====
Instalar 3 Paquetes

Tamaño total de la descarga: 96 k
Tamaño instalado: 127 k
¿Está de acuerdo [s/N]? s
Descargando paquetes:
(1/3): python3-pip-9.0.3-19.el8.noarch.rpm          190 kB/s | 20 kB    00:00
(2/3): python36-3.6.8-2.module_el8.4.0+790+083e3d81.x86_64.rpm 158 kB/s | 19 kB    00:00
(3/3): pssh-2.3.1-29.el8.noarch.rpm                357 kB/s | 58 kB    00:00
-----
Total                                     33 kB/s | 96 kB    00:02
advertencia:/var/cache/dnf/epel-6519ee669354a494/packages/pssh-2.3.1-29.el8.noarch.rpm: EncabezadoV3 RSA/SHA256 Signature, ID de clave 2f86d6a1: NOKEY
Extra Packages for Enterprise Linux 8 - x86_64                1.6 MB/s | 1.6 kB    00:00
Importando llave GPG 0x2f86D6A1:
ID usuario: "Fedora EPEL (8)" <epel@fedoraproject.org>
Huella   : 94E2 79EB 8D8F 25B2 1810 ADF1 21EA 45AB 2F86 D6A1
Desde    : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-8
```

Ubuntu (hosts)

```
root@ubu-VirtualBox:~# apt install pssh
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  pssh
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 28,7 kB of archives.
After this operation, 101 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu groovy/universe amd64 pssh all 2.3.1-2 [28,7 kB]
Fetched 28,7 kB in 0s (178 kB/s)
Selecting previously unselected package pssh.
(Reading database ... 166434 files and directories currently installed.)
Preparing to unpack .../archives/pssh_2.3.1-2_all.deb ...
Unpacking pssh (2.3.1-2) ...
Setting up pssh (2.3.1-2) ...
Processing triggers for man-db (2.9.3-2) ...
```

Conexiones

Mandamos un comando a un host desde el server (date)

```
[root@CTSPHG ~]# pssh -i -A -H ubu@172.19.102.223 -l root -- date
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 07:17:49 [SUCCESS] ubu@172.19.102.223
dom 03 oct 2021 13:17:49 CEST
```

Mandamos un comando a varios hosts (hostnamectl)

```
[root@CTSPHG ~]# pssh -i -A -H "ubu@172.19.102.223 ubu@172.19.107.226" -l root -- hostnamectl
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 07:20:05 [SUCCESS] ubu@172.19.102.223
  Static hostname: ubu-VirtualBox
    Icon name: computer-vm
    Chassis: vm
    Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
    Boot ID: 22793a2e886949749500e8a245aafd9d
  Virtualization: oracle
  Operating System: Ubuntu 20.10
    Kernel: Linux 5.8.0-63-generic
  Architecture: x86_64
[2] 07:20:05 [SUCCESS] ubu@172.19.107.226
  Static hostname: ubu-VirtualBox
    Icon name: computer-vm
    Chassis: vm
    Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
    Boot ID: 0afd82423acc49a98cd11aeac0b68261
  Virtualization: oracle
  Operating System: Ubuntu 20.10
    Kernel: Linux 5.8.0-63-generic
  Architecture: x86_64
```

Mandamos un comando a varios hosts guardando la salida en una carpeta y creando otra con los posibles errores

```
[root@CTSPHG home]# pssh -i -A -H "ubu@172.19.102.223 ubu@172.19.107.226" -o /home/pablo -e /home/
pablo/errores -l root -- hostnamectl
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 07:24:18 [SUCCESS] ubu@172.19.102.223
  Static hostname: ubu-VirtualBox
    Icon name: computer-vm
    Chassis: vm
    Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
    Boot ID: 22793a2e886949749500e8a245aafd9d
  Virtualization: oracle
  Operating System: Ubuntu 20.10
    Kernel: Linux 5.8.0-63-generic
  Architecture: x86_64
[2] 07:24:18 [SUCCESS] ubu@172.19.107.226
  Static hostname: ubu-VirtualBox
    Icon name: computer-vm
    Chassis: vm
    Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
    Boot ID: 0afd82423acc49a98cd11aeac0b68261
  Virtualization: oracle
  Operating System: Ubuntu 20.10
    Kernel: Linux 5.8.0-63-generic
  Architecture: x86_64
[root@CTSPHG home]# ls -l
total 0
drwxrwxrwx. 4 pablo pablo 196 oct  3 07:24 pablo
[root@CTSPHG home]# cd pablo
[root@CTSPHG pablo]# ls -l
total 16
-rw-r--r--. 1 Pablo Pablo 572 sep 28 09:52 clave
-rw-rw-r--. 1 pablo pablo 566 sep 28 08:11 clave_publica
drwxr-xr-x. 2 root root   6 oct  3 07:24 errores
-rw-r--r--. 1 root root  326 oct  3 07:24 ubu@172.19.102.223
-rw-r--r--. 1 root root  326 oct  3 07:24 ubu@172.19.107.226
```

Mostramos el contenido de los dos ficheros que se han generado

```
[root@CTSPHG pablo]# cat ubu@172.19.102.223
Static hostname: ubu-VirtualBox
Icon name: computer-vm
Chassis: vm
Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
Boot ID: 22793a2e886949749500e8a245aafd9d
Virtualization: oracle
Operating System: Ubuntu 20.10
Kernel: Linux 5.8.0-63-generic
Architecture: x86-64
[root@CTSPHG pablo]#
```

```
[root@CTSPHG pablo]# cat ubu@172.19.107.226
Static hostname: ubu-VirtualBox
Icon name: computer-vm
Chassis: vm
Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
Boot ID: 0afd82423acc49a98cd11aeac0b68261
Virtualization: oracle
Operating System: Ubuntu 20.10
Kernel: Linux 5.8.0-63-generic
Architecture: x86-64
```

Mandamos un comando erróneo a los hosts guardando el error en una carpeta

```
[root@CTSPHG pablo]# pssh -i -A -H "ubu@172.19.102.223 ubu@172.19.107.226" -o /home/pablo -e /home/pablo/errores -l root -- hostnameec
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 07:28:13 [FAILURE] ubu@172.19.102.223 Exited with error code 127
Stderr: bash: hostnameec: command not found
[2] 07:28:13 [FAILURE] ubu@172.19.107.226 Exited with error code 127
Stderr: bash: hostnameec: command not found
```

Vemos el contenido de los ficheros con los errores

```
[root@CTSPHG pablo]# cd errores
[root@CTSPHG errores]# ll
total 8
-rw-r--r--. 1 root root 35 oct  3 07:28 ubu@172.19.102.223
-rw-r--r--. 1 root root 35 oct  3 07:28 ubu@172.19.107.226
[root@CTSPHG errores]# cat ubu@172.19.107.226
bash: hostnameec: command not found
[root@CTSPHG errores]# cat ubu@172.19.102.223
bash: hostnameec: command not found
```

Creamos un tiempo de espera entre los hosts (20 segundos)

-Apagamos uno de los hosts para la comprobación

```
[root@CTSPHG pablo]# pssh -i -A -H "ubu@172.19.102.223 ubu@172.19.107.226" -t 20 -o /home/pablo -e /home/pablo/errores -l root -- hostnameectl
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 07:39:43 [SUCCESS] ubu@172.19.107.226
Static hostname: ubu-VirtualBox
Icon name: computer-vm
Chassis: vm
Machine ID: 3b63af7e8d734159b0f281c2ec11a26d
Boot ID: 0afd82423acc49a98cd11aeac0b68261
Virtualization: oracle
Operating System: Ubuntu 20.10
Kernel: Linux 5.8.0-63-generic
Architecture: x86-64
[2] 07:40:02 [FAILURE] ubu@172.19.102.223 Timed out, Killed by signal 9
[root@CTSPHG pablo]#
```

Operaciones con múltiples hosts

Creamos un fichero con el usuario y la ip de todos los hosts

```
[root@CTSPHG pablo]# cat servidores.txt
ubu@172.19.102.223
ubu@172.19.107.226
[root@CTSPHG pablo]#
```

Mandamos un comando a los hosts que lea en el fichero

-Se le puede poner también el comando para guardar la salida en un fichero y también el comando para crear un tiempo de espera entre hosts

```
[root@CTSPHG pablo]# pssh -i -A -h servidores.txt -- date
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 07:50:09 [SUCCESS] ubu@172.19.102.223
dom 03 oct 2021 13:50:09 CEST
[2] 07:50:09 [SUCCESS] ubu@172.19.107.226
dom 03 oct 2021 13:50:09 CEST
```

Copiar ficheros y directorio con pscp

Vemos el contenido de dos ficheros

```
[root@CTSPHG pablo]# ll
total 32
-rw-r--r--. 1 root root 18 oct 3 08:06 adios.txt
-rw-r--r--. 1 Pablo Pablo 572 sep 28 09:52 clave
-rw-rw-r--. 1 pablo pablo 566 sep 28 08:11 clave_publica
drwxr-xr-x. 2 root root 58 oct 3 07:28 errores
-rw-r--r--. 1 root root 16 oct 3 08:08 hola2.txt
-rw-r--r--. 1 root root 14 oct 3 08:05 hola.txt
-rw-r--r--. 1 root root 38 oct 3 07:49 servidores.txt
-rw-r--r--. 1 root root 326 oct 3 07:24 ubu@172.19.102.223
-rw-r--r--. 1 root root 326 oct 3 07:39 ubu@172.19.107.226
[root@CTSPHG pablo]# cat hola.txt
hola que tal
[root@CTSPHG pablo]# cat hola2.txt
hola muy buenas
```

Mandamos dos ficheros a los hosts dentro de una carpeta que existe en ambos.

```
[root@CTSPHG pablo]# pscp.pssh -A -h servidores.txt hola* /home/ubu/scripts
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 08:12:45 [SUCCESS] ubu@172.19.107.226
[2] 08:12:45 [SUCCESS] ubu@172.19.102.223
[root@CTSPHG pablo]#
```

Comprobamos que se han copiado a los hosts

```
root@ubu-VirtualBox:/home/ubu/scripts# cat hola2.txt hola.txt
hola muy buenas
hola que tal
root@ubu-VirtualBox:/home/ubu/scripts#
```

```

root@ubu-VirtualBox:/home/ubu/scripts# hostname -I
172.19.102.223
root@ubu-VirtualBox:/home/ubu/scripts# cat hola.txt hola2.txt
hola que tal
hola muy buenas

```

Eliminamos los ficheros de ambos hosts

```

[root@CTSPHG pablo]# pssh -i -A -h servidores.txt -- rm -f /home/ubu/scripts/hola*.txt
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 08:22:03 [SUCCESS] ubu@172.19.102.223
[2] 08:22:03 [SUCCESS] ubu@172.19.107.226

```

Copiamos los ficheros nuevamente con prsync

```

[root@CTSPHG pablo]# prsync -A -h servidores.txt hola* /home/ubu/scripts
Warning: do not enter your password if anyone else has superuser
privileges or access to your account.
Password:
[1] 08:27:12 [SUCCESS] ubu@172.19.102.223
[2] 08:27:12 [SUCCESS] ubu@172.19.107.226

```

Comprobamos que se han copiado con prsyncs

```

[root@CTSPHG pablo]# ssh ubu@172.19.102.223
ubu@172.19.102.223's password:
Welcome to Ubuntu 20.10 (GNU/Linux 5.8.0-63-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 updates can be installed immediately.
0 of these updates are security updates.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '21.04' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Sun Oct  3 13:15:28 2021 from 172.19.110.141
ubu@ubu-VirtualBox:~$ ls /home/ubu/scripts
hola2.txt  hola.txt

```

```

[root@CTSPHG pablo]# ssh ubu@172.19.107.226
ubu@172.19.107.226's password:
Welcome to Ubuntu 20.10 (GNU/Linux 5.8.0-63-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 updates can be installed immediately.
0 of these updates are security updates.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '21.04' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Sun Oct  3 13:58:05 2021 from 172.19.102.223
ubu@ubu-VirtualBox:~$ ls /home/ubu/scripts
hola2.txt  hola.txt

```