

243-[LX]-Lab - Administración del software

Datos Generales:

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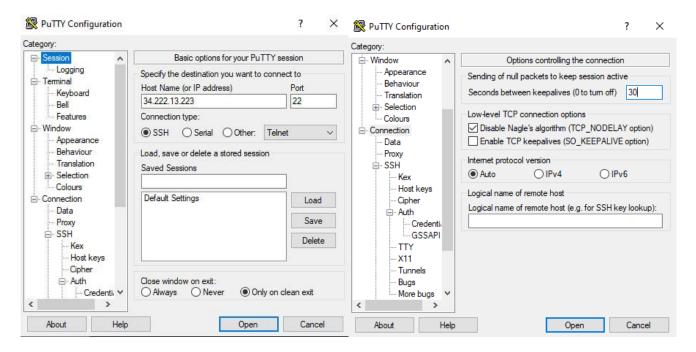
En este laboratorio, hará lo siguiente:

- Actualizar la máquina de Linux mediante el administrador de paquetes
- Recuperar o revertir a una versión anterior un paquete previamente actualizado mediante el administrador de paquetes
- Instalar la AWS Command Line Interface (AWS CLI)

Tarea 1: conectarse a una instancia EC2 de

Amazon Linux mediante SSH

- 1. Abrir Putty.exe: Se ingresa dirección IPv4 de la instancia EC2 en la sección Session.
- 2. En la sección Connection → SSH → Auth → Credentials se ingresa el archivo PPK descargado anteriormente.
- 3. En la sección Connection se establece Seconds between keepalive en 30 (el valor predeterminado es 0).



4. Se hace click en "Open" para validar y conectarse al Host.

Tarea 2: Actualizar la máquina de Linux

sudo = permite ejecutar comandos con privilegios de superusuario.

yum = administrador de paquetes que se utiliza para instalar, actualizar y eliminar software.

- -y = acepta todas las solicitudes sin preguntar
- install = instala un paquete de software
- update = actualiza un paquete de software
- remove = elimina un paquete de software
- list = lista los paquetes de software instalados
- check-update = verifica las actualizaciones disponibles para los paquetes instalados

```
ec2-user@ip-10-0-10-213:~/companyA

[ec2-user@ip-10-0-10-213 companyA]$ pwd
/home/ec2-user/companyA

[ec2-user@ip-10-0-10-213 companyA]$ sudo yum -y check-update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Security: kernel-4.14.322-244.539.amzn2.x86_64 is an installed security update
Security: kernel-4.14.322-244.536.amzn2.x86_64 is the currently running version
[ec2-user@ip-10-0-10-213 companyA]$
```

```
[ec2-user@ip-10-0-10-213 companyA]$ sudo yum update --security
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages needed for security; 0 packages available
No packages marked for update
[ec2-user@ip-10-0-10-213 companyA]$
```

```
[ec2-user@ip-10-0-10-213 companyA]$ sudo yum -y upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[ec2-user@ip-10-0-10-213 companyA]$
```

En este caso la instancia EC2 ya se encuentra actualizada como se indica en el terminal.

Para ver el historial de actualizaciones de httpd:

```
ec2-user@ip-10-0-10-185:~
```

```
[ec2-user@ip-10-0-10-185 ~]$ sudo yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
---> Running transaction check
---> Package httpd.x86_64 0:2.4.57-1.amzn2 will be installed
---> Processing Dependency: httpd-tools = 2.4.57-1.amzn2 for package: httpd-2.4.57-1.amzn2.x86_64
---> Processing Dependency: httpd-filesystem = 2.4.57-1.amzn2 for package: httpd-2.4.57-1.amzn2.x86_64
---> Processing Dependency: system-logos-httpd for package: httpd-2.4.57-1.amzn2.x86_64
---> Processing Dependency: mod_http2 for package: httpd-2.4.57-1.amzn2.x86_64
---> Processing Dependency: httpd-filesystem for package: httpd-2.4.57-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.57-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.57-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.57-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.57-1.amzn2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.7.2-1.amzn2 will be installed
```

Tarea 3: Revertir un paquete (Roll Back)

yum history = permite ver el historial de las transacciones realizadas con yum.

- info = permite ver información detallada sobre una transacción especifica realizada con yum
- undo = se utiliza para deshacer una transacción especifica realizada con yum

```
ec2-user@ip-10-0-10-213:~/companyA
```

```
[ec2-user@ip-10-0-10-213 companyA]$ pwd
/home/ec2-user/companyA
[ec2-user@ip-10-0-10-213 companyA]$ sudo yum history list
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
                                  | Date and time
ID
      | Login user
                                                     | Action(s)
                                                                      | Altered
    3 | EC2 ... <ec2-user>
                                | 2023-09-08 21:39 | Install
                                  | 2023-09-08 21:03 | I, U
    2 | System <unset>
                                                                          23
    1 | System <unset>
                                 | 2023-09-08 21:03 | Update
history list
[ec2-user@ip-10-0-10-213 companyA]$
```

```
[ec2-user@ip-10-0-10-213 companyA]$ sudo yum history info 3
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Transaction ID: 3
Begin time
              : Fri Sep 8 21:39:33 2023
Begin rpmdb
              : 453:1f515eb4800752f09ae8a8c827570158414a324c
End time
                           21:39:34 2023 (1 seconds)
              : 462:4974786f221949fa02881f65782e75edd10088b8
End rpmdb
              : EC2 Default User <ec2-user>
User
Return-Code
              : Success
Command Line : install httpd -y
Transaction performed with:
   Installed
                rpm-4.11.3-48.amzn2.0.3.x86 64 installed
                 yum-3.4.3-158.amzn2.0.6.noarch installed
   Installed
Packages Altered:
   Dep-Install apr-1.7.2-1.amzn2.x86 64
                                                          @amzn2-core
   Dep-Install apr-util-1.6.3-1.amzn2.0.1.x86 64
                                                          @amzn2-core
   Dep-Install apr-util-bdb-1.6.3-1.amzn2.0.1.x86 64
                                                          @amzn2-core
   Dep-Install generic-logos-httpd-18.0.0-4.amzn2.noarch @amzn2-core
               httpd-2.4.57-1.amzn2.x86 64
                                                          @amzn2-core
   Dep-Install httpd-filesystem-2.4.57-1.amzn2.noarch
                                                          @amzn2-core
   Dep-Install httpd-tools-2.4.57-1.amzn2.x86 64
                                                          @amzn2-core
   Dep-Install mailcap-2.1.41-2.amzn2.noarch
                                                          @amzn2-core
   Dep-Install mod http2-1.15.19-1.amzn2.0.1.x86 64
                                                          @amzn2-core
history info
 ec2-user@ip-10-0-10-213 companyA]$
```

```
[ec2-user@ip-10-0-10-213 companyA]$ sudo yum -y history undo 3
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Undoing transaction 3, from Fri Sep 8 21:39:33 2023
   Dep-Install apr-1.7.2-1.amzn2.x86 64
                                                          @amzn2-core
   Dep-Install apr-util-1.6.3-1.amzn2.0.1.x86 64
                                                          @amzn2-core
   Dep-Install apr-util-bdb-1.6.3-1.amzn2.0.1.x86 64
                                                          @amzn2-core
   Dep-Install generic-logos-httpd-18.0.0-4.amzn2.noarch @amzn2-core
               httpd-2.4.57-1.amzn2.x86 64
                                                          @amzn2-core
   Dep-Install httpd-filesystem-2.4.57-1.amzn2.noarch
                                                          @amzn2-core
   Dep-Install httpd-tools-2.4.57-1.amzn2.x86 64
                                                          @amzn2-core
   Dep-Install mailcap-2.1.41-2.amzn2.noarch
                                                          @amzn2-core
   Dep-Install mod http2-1.15.19-1.amzn2.0.1.x86 64
                                                          @amzn2-core
Resolving Dependencies
--> Running transaction check
 --> Package apr.x86 64 0:1.7.2-1.amzn2 will be erased
 --> Package apr-util.x86 64 0:1.6.3-1.amzn2.0.1 will be erased
```

```
Removed:
  apr.x86 64 0:1.7.2-1.amzn2
                                        apr-util
  httpd-tools.x86 64 0:2.4.57-1.amzn2 mailcap.
Complete!
[ec2-user@ip-10-0-10-213 companyA]$
```

Tarea 4: Instalar la AWS CLI en Red Hat Linux

Verificar que Python y pip3 (pip packet manager) se encuentran instalados:



ec2-user@ip-10-0-10-213:~/companyA

```
[ec2-user@ip-10-0-10-213 companyA]$ python3 --version
Python 3.7.16
[ec2-user@ip-10-0-10-213 companyA]$ pip3 --version
pip 20.2.2 from /usr/lib/python3.7/site-packages/pip (python 3.7)
[ec2-user@ip-10-0-10-213 companyA]$
```

curl = se utiliza para transferir datos hacia o desde un servidor con URL

- Descargar archivos
- Subir archivos
- -o = almacena la salida en un archivo

unzip = se utiliza para descomprimir archivos comprimidos en formato .zip

```
ec2-user@ip-10-0-10-213:~/companyA 

[ec2-user@ip-10-0-10-213 companyA] $ 1s 
absolute_mode_file aws awscliv2.zip CEO Documents Em 
[ec2-user@ip-10-0-10-213 companyA] $ sudo ./aws/install 
You can now run: /usr/local/bin/aws --version 
[ec2-user@ip-10-0-10-213 companyA] $
```

Verificar que AWS CLI fue instalado correctamente con el comando aws help:

```
AWS()

AW
```

Tarea 5: Configurar la AWS CLI para

conectarse a su cuenta de AWS

Credenciales AWS CLI:

```
Cloud Access

AWS CLI:
Copy and paste the following into ~/.aws/credentials

[default]
aws_access_key_id=ASIA2JJFEZSCNZGGOR4N
aws_secret_access_key=+12PvDx6hkqJc78Eky3WvPh+M0yIhXi/df2lhnb8
aws_secret_access_key=+12PvDx6hkqJc78Eky3WvPh+M0yIhXi/df2lhnb8
aws_session_token=FwoGZXIVYXdzEQn/////////wEaDPsjLCassis0f8FMYSLAAVrcyolqFwoyTQ8d5s7T9bCnQyuY9v0KA7xXLVPM2R4TtqVr8eD3KDDZZ30HVvVGDsrrKVVHhijRrj3Hf/kU53+KwARvhCRDR9obA5rAgv37MrwxrKQrtHeSuF8
L/AorAltiDz7YRJglsdF220qSqllzxWhpfnzF0zRipeo9ENMcCbjZKhYJeeyjmlEfaJMkp1569XivNBNyfTuA30UYBOFTnvxcYCfmzKfHqQylqP8m2aPLfFVrs12EqyklabGg7ijn106nBjItp19Z7bSHw4vohADseB26cdZ18t1+N3nw1sFwCi2/pDEI
97PVWwFMUUfnleUj
```

Abrir el archivo de credenciales e ingresar el texto copiado anteriormente:

```
ec2-user@ip-10-0-10-185:~

[ec2-user@ip-10-0-10-185 ~]$ sudo nano ~/.aws/credentials
```

aws config = permite interactuar con AWS Config desde la línea de comandos.

```
ec2-user@ip-10-0-10-185:~

[ec2-user@ip-10-0-10-185 ~]$ aws configure

AWS Access Key ID [None]:

AWS Secret Access Key [None]:

Default region name [None]: us-west-2

Default output format [None]: json

[ec2-user@ip-10-0-10-185 ~]$
```

Obtener ID de la instancia:

ID de la instancia

i-007d19ca8bbeca90d (Command Host)

Comando para describir los atributos de la instancia: (se ingresa el ID de la instancia correspondiente)

```
@ ec2-user@ip-10-0-10-185:~

[ec2-user@ip-10-0-10-185 ~]$ aws ec2 describe-instance-attribute --instance-id i-007dl9ca8bbeca90d --attribute instanceType

"InstanceId": "i-007dl9ca8bbeca90d",
    "InstanceType": {
        "Value": "t3.micro"
    }
}
[ec2-user@ip-10-0-10-185 ~]$
```

Laboratorio Completado

