



*Laboratorio*

# ADMINISTRACIÓN DEL SOFTWARE

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# Objetivos

- Actualizar la máquina Linux utilizando el administrador de paquetes.
- Devolver un paquete a una versión anterior.
- Instalar la AWS Command Line Interface (AWS CLI).

# Tarea 1: Conectarse a la instancia utilizando SSH.



- Esperaremos a que la instancia esté cargada y nos conectaremos a la misma utilizando SSH.



- En Windows: usaremos PuTTY
- En Linux: con el comando ssh



# Conexión con la instancia

```
ec2-user@ip-10-0-10-227:~  
File Edit View Search Terminal Help  
dotto@dotto-laptop:~/Downloads$ ssh -i labsuser.pem ec2-user@35.90.34.59  
The authenticity of host '35.90.34.59 (35.90.34.59)' can't be established.  
ED25519 key fingerprint is SHA256:Ua2ukfsgxIv+8LToBh6pBmX6K4/tj2K0U0jMNtU0ZTg.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '35.90.34.59' (ED25519) to the list of known hosts.  
  
#  
'\_##### Amazon Linux 2  
~~\_#####\  
~~\_####| AL2 End of Life is 2025-06-30.  
~~\_#/ \  
~~V~'->  
~~~~/  
~~._./ / A newer version of Amazon Linux is available!  
_/_/_/ / Amazon Linux 2023, GA and supported until 2028-03-15.  
_/m/' / https://aws.amazon.com/linux/amazon-linux-2023/  
  
[ec2-user@ip-10-0-10-227 ~]$
```

# Tarea 2: Actualizar la máquina Linux



- En esta tarea utilizaremos el gestor de paquetes “yum”.



- yum nos permite actualizar los paquetes, incluyendo algunos relevantes en seguridad.



# Actualización de paquetes

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help

[ec2-user@ip-10-0-10-92 companyA]$ sudo yum -y check-update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
[ec2-user@ip-10-0-10-92 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-10-0-10-92 companyA]$ sudo yum -y upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[ec2-user@ip-10-0-10-92 companyA]$ sudo yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
```

# Tarea 3: Desactualizar un paquete



- En esta tarea deberemos de desactualizar un paquete previamente actualizado usando “yum”.



- Para hacer esto miraremos el historial de cambio y luego revertiremos el que nos conviene.



Historial de  
cambios e  
información  
del cambio que  
queremos  
revertir.

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help

[ec2-user@ip-10-0-10-92 companyA]$ sudo yum history list
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
ID      | Command line          | Date and time      | Action(s)      | Altered
-----|-----|-----|-----|-----
      1 | install httpd -y      | 2024-05-02 18:04   | Install        |      9
history list
[ec2-user@ip-10-0-10-92 companyA]$ sudo yum history info 1
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Transaction ID : 1
Begin time    : Thu May  2 18:04:56 2024
Begin rpmdb   : 454:fb03493c99b09284116f1712845c03b128c72e97
End time      : 18:04:57 2024 (1 seconds)
End rpmdb     : 463:4d3abe96e8790fe8baa8abfca1907c47ec64b814
User          : EC2 Default User <ec2-user>
Return-Code   : Success
Command Line  : install httpd -y
Transaction performed with:
    Installed      rpm-4.11.3-48.amzn2.0.4.x86_64 installed
    Installed      yum-3.4.3-158.amzn2.0.7.noarch 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
    Install        httpd-2.4.59-1.amzn2.x86_64 @amzn2-core
    Dep-Install    httpd-filesystem-2.4.59-1.amzn2.noarch @amzn2-core
    Dep-Install    httpd-tools-2.4.59-1.amzn2.x86_64 @amzn2-core
    Dep-Install    mailcap-2.1.41-2.amzn2.noarch @amzn2-core
    Dep-Install    mod_http2-1.15.19-1.amzn2.0.2.x86_64 @amzn2-core
history info
[ec2-user@ip-10-0-10-92 companyA]$
```



# Revertimos el cambio con la ID del historial

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help
[ec2-user@ip-10-0-10-92 companyA]$ sudo yum -y history undo 1
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Undoing transaction 1, from Thu May  2 18:04:56 2024
  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
  Install httpd-2.4.59-1.amzn2.x86_64 @amzn2-core
  Dep-Install httpd-filesystem-2.4.59-1.amzn2.noarch @amzn2-core
  Dep-Install httpd-tools-2.4.59-1.amzn2.x86_64 @amzn2-core
  Dep-Install mailcap-2.1.41-2.amzn2.noarch @amzn2-core
  Dep-Install mod_http2-1.15.19-1.amzn2.0.2.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
---> Package apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1 will be erased
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be erased
---> Package httpd.x86_64 0:2.4.59-1.amzn2 will be erased
---> Package httpd-filesystem.noarch 0:2.4.59-1.amzn2 will be erased
---> Package httpd-tools.x86_64 0:2.4.59-1.amzn2 will be erased
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be erased
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.2 will be erased
--> Finished Dependency Resolution
amzn2-core/2/x86_64 | 3.6 kB 00:00:00
```

# Tarea 4: Instalar la AWS Command Line Interface



- En esta tarea instalaremos la AWS CLI mediante pip.



- AWS CLI es una herramienta poderosa para gestionar tus servicios AWS desde la terminal.



# Obteniendo el paquete

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help

[ec2-user@ip-10-0-10-92 companyA]$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left     Speed
100 57.7M  100 57.7M    0     0  212M      0 --:--:-- --:--:-- --:--:-- 212M
[ec2-user@ip-10-0-10-92 companyA]$ unzip awscliv2.zip
Archive:  awscliv2.zip
  creating: aws/
  creating: aws/dist/
 inflating: aws/THIRD_PARTY_LICENSES
 inflating: aws/install
```

# AWS CLI ya instalado

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help
AWS ( ) AWS ( )

NAME
    aws -

DESCRIPTION
    The AWS Command Line Interface is a unified tool to manage your AWS
    services.

SYNOPSIS
    aws [options] <command> <subcommand> [parameters]

    Use aws command help for information on a specific command. Use aws
    help topics to view a list of available help topics. The synopsis for
    each command shows its parameters and their usage. Optional parameters
    are shown in square brackets.

:
```

# Tarea 5: Configurar la AWS CLI con mi cuenta de Amazon



- En esta tarea aprenderemos a vincular la AWS CLI con la cuenta de Amazon mediante access keys.



- Esto nos permitirá conectarnos y realizar cambios en nuestra cuenta desde la misma terminal.



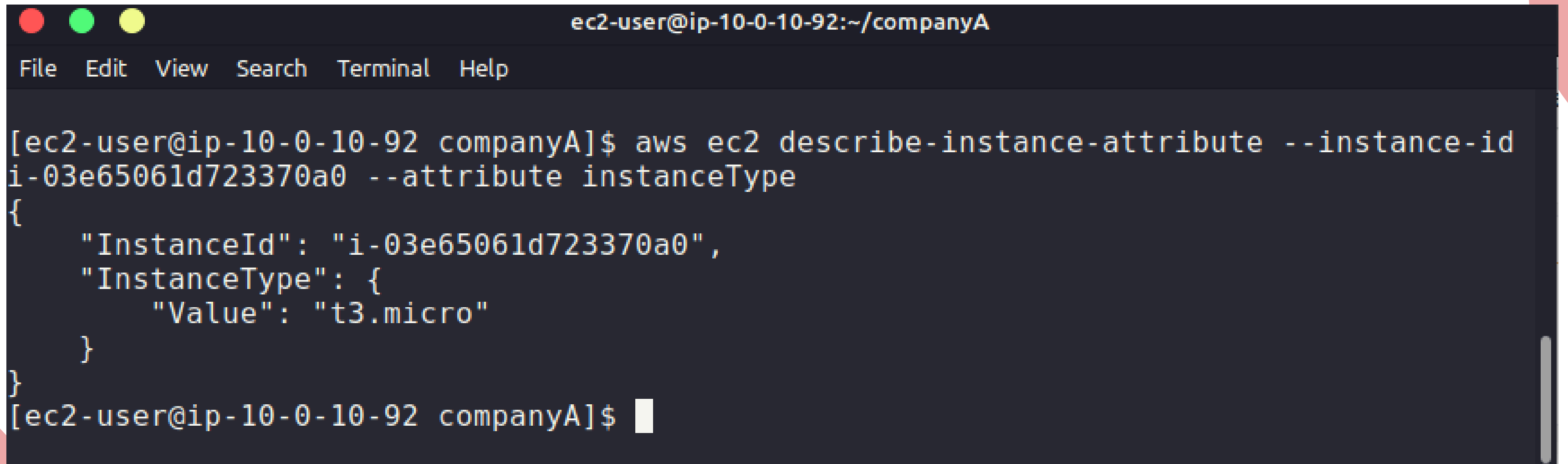
# Guardando credenciales

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help
GNU nano 2.9.8 /home/ec2-user/.aws/credentials

[default]
aws_access_key_id=ASIA60DU62PCESN5UW73
aws_secret_access_key=[REDACTED]
aws_session_token=IQoJb3JpZ2luX2VjEAoaCXVzLXdlc3QzMjJHMEUCIHwqKdgj3KQJt8T+GV9W$

[ Read 4 lines ]
^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify
^X Exit          ^R Read File    ^\ Replace      ^U Uncut Text   ^T To Spell
```

# Recibiendo información

A terminal window with a dark background and light-colored text. The window title is 'ec2-user@ip-10-0-10-92:~/companyA'. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The command 'aws ec2 describe-instance-attribute --instance-id i-03e65061d723370a0 --attribute instanceType' is entered. The output is a JSON object showing the instance ID and its type 't3.micro'.

```
ec2-user@ip-10-0-10-92:~/companyA
File Edit View Search Terminal Help

[ec2-user@ip-10-0-10-92 companyA]$ aws ec2 describe-instance-attribute --instance-id
i-03e65061d723370a0 --attribute instanceType
{
  "InstanceId": "i-03e65061d723370a0",
  "InstanceType": {
    "Value": "t3.micro"
  }
}
[ec2-user@ip-10-0-10-92 companyA]$
```

# Conclusiones

- Cumplí con los objetivos correspondientes al laboratorio.
- Comprendí mejor el sistema de paquetes de yum y su manejo
- Entendí que la AWS CLI es una herramienta poderosa y adquirí experiencia con ella.

## ¡Muchas gracias!

- Hecho por Ignacio Suárez. Realizado en canva.com