



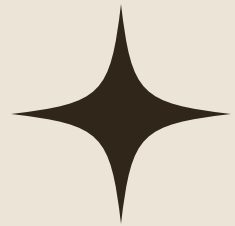
LABORATORIO

# RETO – EJERCICIO PYTHON

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# Objetivos // del laboratorio

- Crear un script en python que imprima los números primos dentro de un rango de dos números.



# 1: Conexión con la instancia EC2

- Esperaremos a que la instancia esté cargada y nos conectaremos a la misma utilizando SSH.
- En Windows: usando PuTTY,
- En Linux: usando el comando SSH.

Amazon EC2

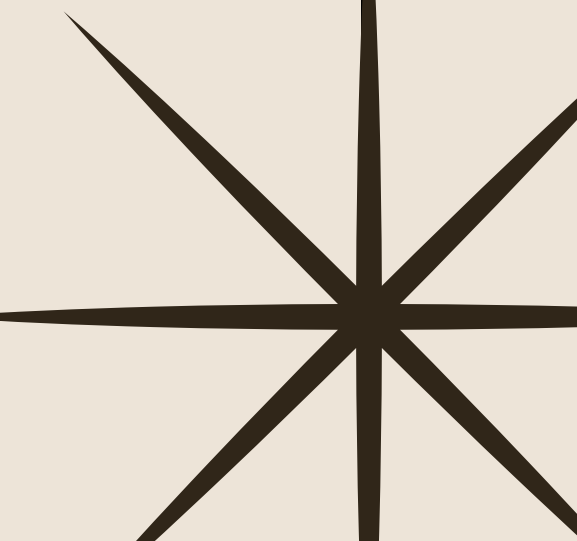


# Conexión con la instancia EC2

```
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 ~]$
```



## 2: Realizar un script en Python

- Se mostrará el código y el resultado. El script imprime todos los números primos en un rango de dos números.
  - Se utiliza una función para iterar y otra para comprobar si un número es primo.
- 

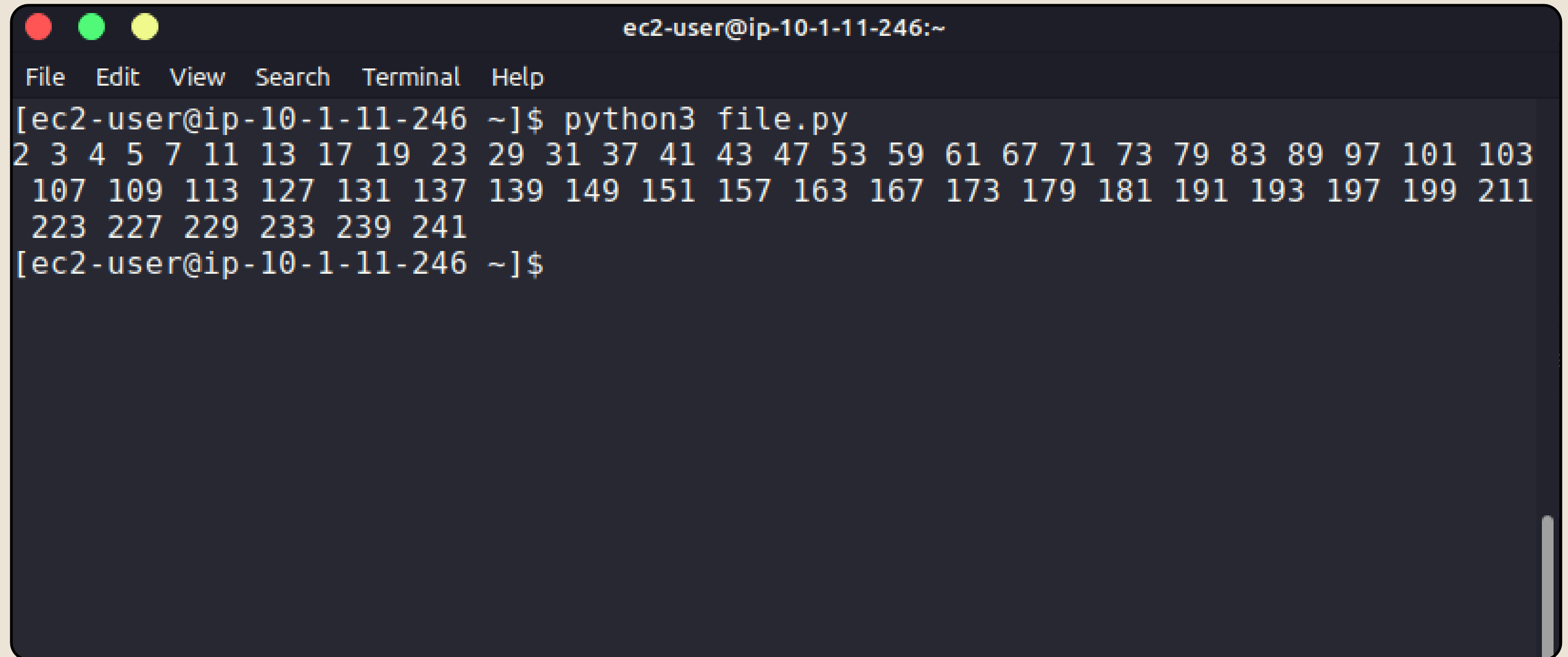
# Código del script



The image shows a terminal window with a dark background. At the top, the window title is 'ec2-user@ip-10-1-11-246:~'. Below the title bar is a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The editor's status bar shows 'GNU nano 2.9.8' and the filename 'file.py'. The code is written in Python and defines two functions: 'isPrime' and 'primeNumbers'. The 'isPrime' function checks if a number is prime by testing divisibility from 2 to num//2. The 'primeNumbers' function iterates through a range of numbers and prints the prime ones. At the bottom of the terminal, there is a row of nano editor shortcuts: ^G Get Help, ^O Write Out, ^W Where Is, ^K Cut Text, ^J Justify, ^C Cur Pos, ^X Exit, ^R Read File, ^\ Replace, ^U Uncut Text, ^T To Linter, and ^\_ Go To Line.

```
ec2-user@ip-10-1-11-246:~  
File Edit View Search Terminal Help  
GNU nano 2.9.8 file.py  
  
def isPrime(num):  
    if num <= 1:  
        return False  
    for i in range(2, num//2):  
        if num % i == 0:  
            return False  
    return True  
  
def primeNumbers(start, end):  
    for i in range(start, end):  
        if isPrime(i):  
            print(i, end=" ")  
    print()  
  
primeNumbers(1, 250)  
  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```

# Resultados del script



A terminal window with a dark blue background and light blue text. The window title is "ec2-user@ip-10-1-11-246:~". The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The command prompt shows the execution of "python3 file.py", which outputs three lines of prime numbers. The prompt then returns to the shell.

```
ec2-user@ip-10-1-11-246:~  
File Edit View Search Terminal Help  
[ec2-user@ip-10-1-11-246 ~]$ python3 file.py  
2 3 4 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103  
107 109 113 127 131 137 139 149 151 157 163 167 173 179 181 191 193 197 199 211  
223 227 229 233 239 241  
[ec2-user@ip-10-1-11-246 ~]$
```

# Conclusiones

- Se realizó con éxito el script en la instancia EC2.

¡Muchas gracias!

Hecho por: Ignacio Suárez  
Realizado en: canva.com