

Informática Básica

Informe Práctica 1: El entorno de trabajo de la IaaS para la asignatura

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Dirección IP de la VM de la asignatura: **10.6.131.3**

Se adjuntan a continuación las cuatro imágenes correspondientes a las capturas de pantalla que acreditan la realización de algunos de los ejercicios propuestos en la práctica.

Imagen 1: Perfil de la cuenta de Github.

The screenshot shows the GitHub profile of Javier Almenara Herrera. The profile includes a circular profile picture of a young man with dark hair wearing a yellow shirt. To the right of the picture is a navigation bar with tabs for Overview, Repositories (1), Projects, and Packages. Below the profile picture, the name 'Javier Almenara Herrera' is displayed, followed by the username 'Javieralmenara01' and a bio: 'I'm a computer engineering student at the University of La Laguna(ULL)'. There is an 'Edit profile' button. Social media links for 'Islas Canarias', '@Javieralmenara_', and 'Joined yesterday' are shown. A 'Highlights' section features a 'PRO' badge. The 'Popular repositories' section shows a single repository 'Javieralmenara01' with a 'Public' label. The '2 contributions in 2021' section displays a calendar grid with two green squares indicating contributions in September. The 'Contribution activity' section shows a timeline entry for 'September 28, 2021' with the event 'Created their first repository' on 'Sep 28'.

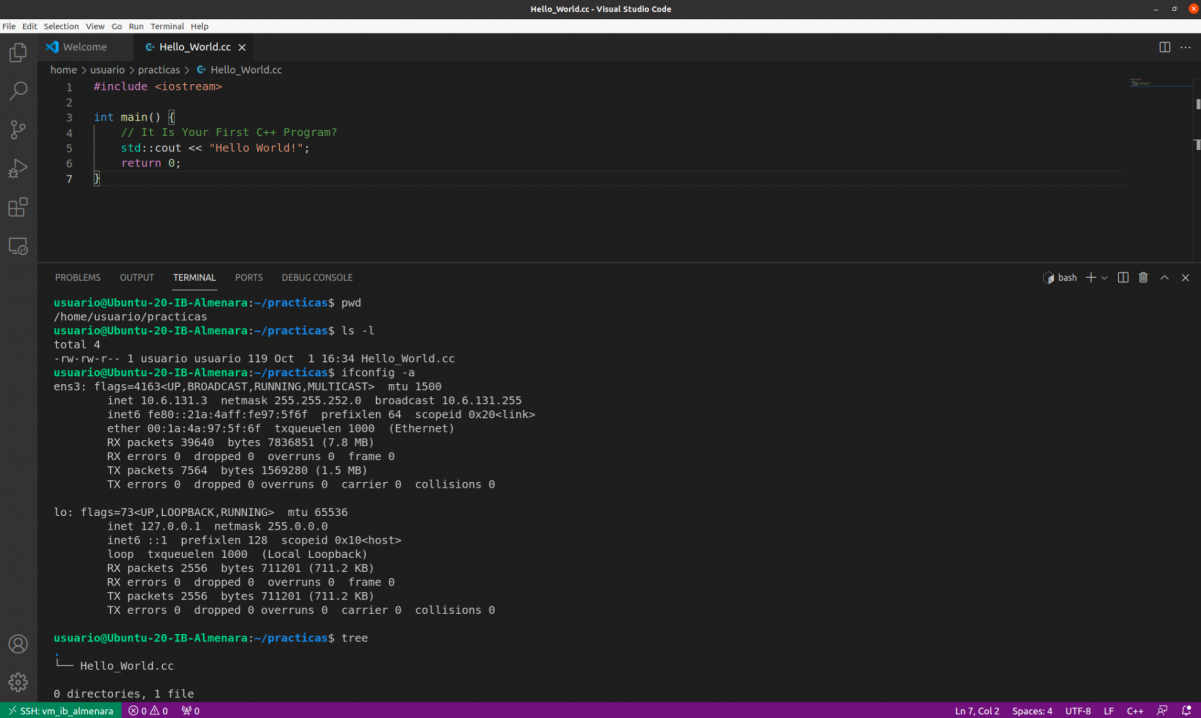
Imagen 2: Imagen en la que se muestra el acceso realizado a la VM y la realización del comando ifconfig -a.

```
usuario@Ubuntu-20-IB-Almenara:~$ hostname
Ubuntu-20-IB-Almenara
usuario@Ubuntu-20-IB-Almenara:~$ whoami
usuario
usuario@Ubuntu-20-IB-Almenara:~$ ifconfig -a
ens3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 10.6.131.3  netmask 255.255.252.0  broadcast 10.6.131.255
    inet6 fe80::21a:4aff:fe97:5f6f  prefixlen 64  scopeid 0x20<link>
    ether 00:1a:4a:97:5f:6f  txqueuelen 1000  (Ethernet)
    RX packets 12683  bytes 47802578 (47.8 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 6534  bytes 1001268 (1.0 MB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 4278  bytes 837304 (837.3 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 4278  bytes 837304 (837.3 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

usuario@Ubuntu-20-IB-Almenara:~$ █
```

Imagen 3: Captura de pantalla del VSC que muestra la edición remota de un programa y el comando ejecutado en la terminal.



The screenshot displays the Visual Studio Code interface for remote editing. The editor window shows a C++ file named `Hello_World.cc` with the following code:

```
1 #include <iostream>
2
3 int main() {
4     // It Is Your First C++ Program?
5     std::cout << "Hello World!";
6     return 0;
7 }
```

The terminal at the bottom shows the execution of several commands in a remote shell:

```
usuario@Ubuntu-20-IB-Almenara:~/practicass$ pwd
/home/usuario/practicass
usuario@Ubuntu-20-IB-Almenara:~/practicass$ ls -l
total 4
-rw-rw-r-- 1 usuario usuario 119 Oct  1 16:34 Hello_World.cc
usuario@Ubuntu-20-IB-Almenara:~/practicass$ ifconfig -a
ens3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 10.6.131.3  netmask 255.255.252.0  broadcast 10.6.131.255
    inet6 fe80::21a:4aff:fe97:5f6f  prefixlen 64  scopeid 0x20<link>
    ether 00:1a:4a:97:5f:6f  txqueuelen 1000  (Ethernet)
    RX packets 39640  bytes 7836851 (7.8 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 7564  bytes 1569280 (1.5 MB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 2556  bytes 711201 (711.2 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 2556  bytes 711201 (711.2 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

usuario@Ubuntu-20-IB-Almenara:~/practicass$ tree
.
└─ Hello_World.cc

0 directories, 1 file
```

The status bar at the bottom indicates the current file is `Hello_World.cc` and the editor is in C++ mode.

Imagen 4: Terminal de linux mostrando el proceso de establecimiento de conexión con la VM-IaaS.

```
javieralmenara@javieralmenara-VirtualBox:~$ hostname
javieralmenara-VirtualBox
javieralmenara@javieralmenara-VirtualBox:~$ whoami
javieralmenara
javieralmenara@javieralmenara-VirtualBox:~$ ssh vm_ib_almenara
usuario@10.6.131.3's password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-88-generic x86_64)

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

System information as of Sun Oct  3 10:09:49 UTC 2021

System load:  0.0               Processes:            146
Usage of /:   35.7% of 19.56GB   Users logged in:     0
Memory usage: 6%               IPv4 address for ens3: 10.6.131.3
Swap usage:   0%

 * Super-optimized for small spaces - read how we shrank the memory
   footprint of MicroK8s to make it the smallest full K8s around.

   https://ubuntu.com/blog/microk8s-memory-optimisation

0 updates can be applied immediately.

Last login: Sun Oct  3 10:08:50 2021 from 10.20.50.43
usuario@Ubuntu-20-IB-Almenara:~$ hostname
Ubuntu-20-IB-Almenara
usuario@Ubuntu-20-IB-Almenara:~$ whoami
usuario
usuario@Ubuntu-20-IB-Almenara:~$ ifconfig -a
ens3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 10.6.131.3  netmask 255.255.252.0  broadcast 10.6.131.255
    inet6 fe80::21a:4aff:fe97:5f6f  prefixlen 64  scopeid 0x20<link>
    ether 00:1a:4a:97:5f:6f  txqueuelen 1000  (Ethernet)
    RX packets 37704  bytes 7501628 (7.5 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 6407  bytes 1094977 (1.0 MB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 801  bytes 112544 (112.5 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 801  bytes 112544 (112.5 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

usuario@Ubuntu-20-IB-Almenara:~$ █
```