

Práctica 3: Ansible

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Ejercicio 1

```
[vagrant@idc-aisi2223-ansible ~]$ ansible --version
ansible [core 2.13.3]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/vagrant/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3.9/site-packages/ansible
  ansible collection location = /home/vagrant/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.9.13 (main, Nov 16 2022, 15:31:39) [GCC 8.5.0 20210514 (Red Hat 8.5.0-15)]
  jinja version = 3.1.2
  libyaml = True
[vagrant@idc-aisi2223-ansible ~]$ ansible servers -m shell -a "hostname && uname -a"
idc-aisi2223-webapp | CHANGED | rc=0 >>
idc-aisi2223-webapp
Linux idc-aisi2223-webapp 4.18.0-372.26.1.el8_6.x86_64 #1 SMP Tue Sep 13 18:09:48 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
idc-aisi2223-db | CHANGED | rc=0 >>
idc-aisi2223-db
Linux idc-aisi2223-db 4.18.0-372.26.1.el8_6.x86_64 #1 SMP Tue Sep 13 18:09:48 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
[vagrant@idc-aisi2223-ansible ~]$
```

Figure 1: Hostnames y la versión del kernel de las VMs webapp y db

```
[vagrant@idc-aisi2223-ansible ~]$ curl 192.168.56.11
<h2><u>GEI AISI 2022/2023: Node.js+Express+MariaDB</u>
<p>URL: http://192.168.56.11/
<p> Mon Mar 13 2023 16:37:05 GMT+0000 (Coordinated Universal Time)
<p>MariaDB connection from user idc-aisi2223: <span style="color: green;">PASSED</span>
[vagrant@idc-aisi2223-ansible ~]$ curl idc-aisi2223-webapp
<h2><u>GEI AISI 2022/2023: Node.js+Express+MariaDB</u>
<p>URL: http://idc-aisi2223-webapp/
<p> Mon Mar 13 2023 16:37:06 GMT+0000 (Coordinated Universal Time)
<p>MariaDB connection from user idc-aisi2223: <span style="color: green;">PASSED</span>
[vagrant@idc-aisi2223-ansible ~]$
```

Figure 2: Acceso desde el controlador Ansible a la VM

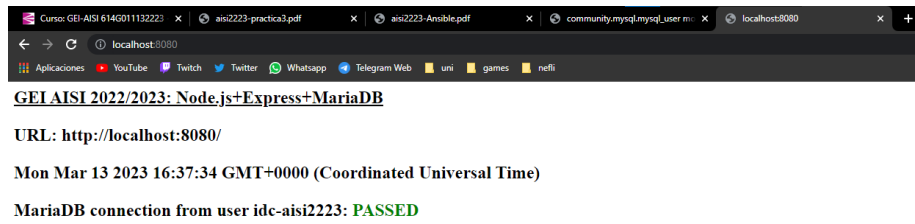


Figure 3: Acceso desde el navegador del host

Ejercicio 2

```
vagrant@idc-aisi2223-ansible:~$ curl localhost
<html>
<head>
  <meta charset= "utf-8">
  <title>GEI AISI: Test Page</title>
  <script type="text/javascript">
    function getURL() {
      document.write("URL: " + window.location.href);
    }
    function getTime() {
      document.getElementById("current_date").innerHTML = Date();
    }
  </script>
</head>
<body>
  <div style="width:600px;height:220px;border:2px solid #000;text-align: center;">
    <strong><br>
    <u>GEI AISI: 2022/2023</u>
    <p><u>Apache Web Server (Ansible)</u></p>
    <p>Página web de Iago Domínguez Cameán e Iker García Calviño</p>
    <p>Virtual host: idc-aisi2223-vhost</p>

    <p><script>getURL();</script></p>
    <p><div id="current_date"><script>getTime();</script></p>
  </strong>
</div>
</body>
</html>
vagrant@idc-aisi2223-ansible:~$
```

Figure 4: Acceso al servidor web usando curl

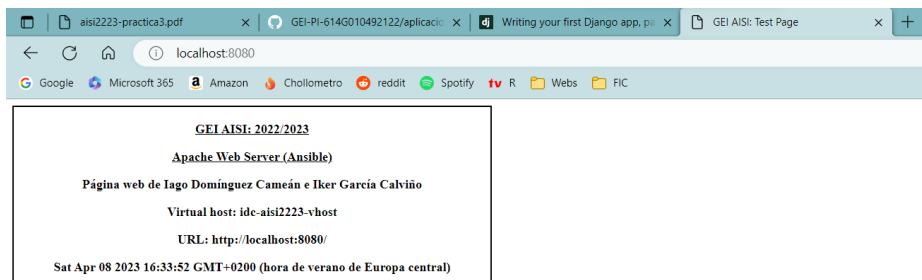


Figure 5: Acceso desde el navegador del host

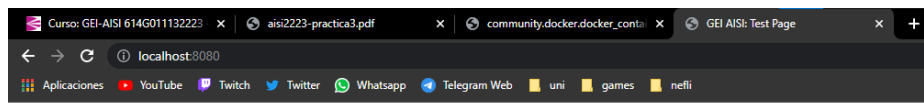
Ejercicio 3

```

vagrant@idc-aisi2223-ansible:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                    NAMES
15fa1a7ead18   idc-aisi2223-webapp-img             "flask run"             14 minutes ago Up 14 minutes   0.0.0.0:80->5000/tcp    idc-aisi2223-webapp
b7d00f4d800f   idc-aisi2223-db-img                "docker-entrypoint.s..." 14 minutes ago Up 14 minutes   3306/tcp, 33060/tcp    idc-aisi2223-db
vagrant@idc-aisi2223-ansible:~$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
idc-aisi2223-db-img   latest    3041ed26b7b1   27 minutes ago 455MB
idc-aisi2223-webapp-img latest    b0255333e5a6   28 minutes ago 503MB
mysql          5.7       0018a8d83892   4 days ago    455MB
ubuntu        focal     61c45d0e9798   12 days ago    72.8MB
vagrant@idc-aisi2223-ansible:~$ docker network ls
NETWORK ID    NAME        DRIVER    SCOPE
b2d05e894369  bridge     bridge    local
fb7951ab273d  host       host      local
b6aabc468483  idc-aisi2223-network bridge    local
972f62f66638  none       null      local
vagrant@idc-aisi2223-ansible:~$

```

Figure 6: Información sobre los contenedores, imágenes y redes



GEI AISI 2022/2023: Flask+MySQL on Docker

URL: <http://localhost:8080/>

Mon Mar 13 2023 19:30:35 GMT+0100 (hora estándar de Europa central)

MySQL URI: `mysql://flask:flask@idc-aisi2223-db/database`

MySQL connection status: **PASSED**

Figure 7: Acceso desde el navegador del host

Ejercicio 4

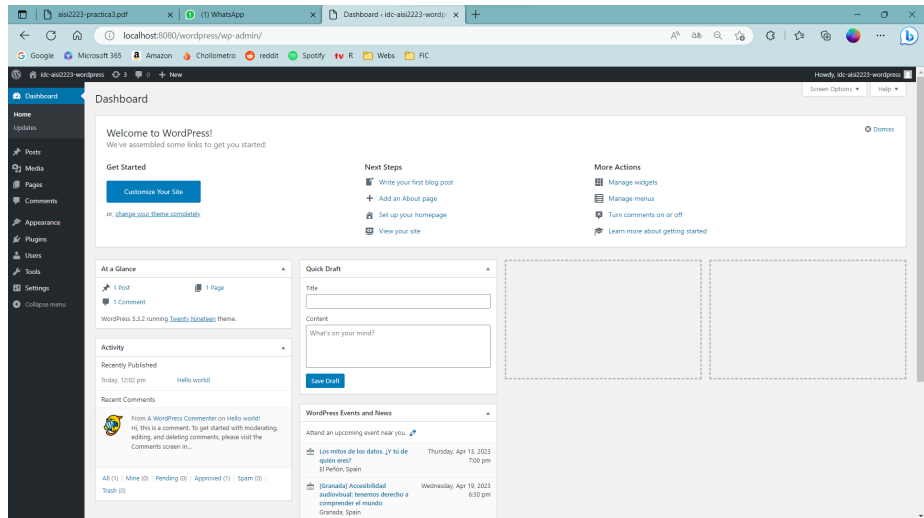


Figure 8: Dashboard

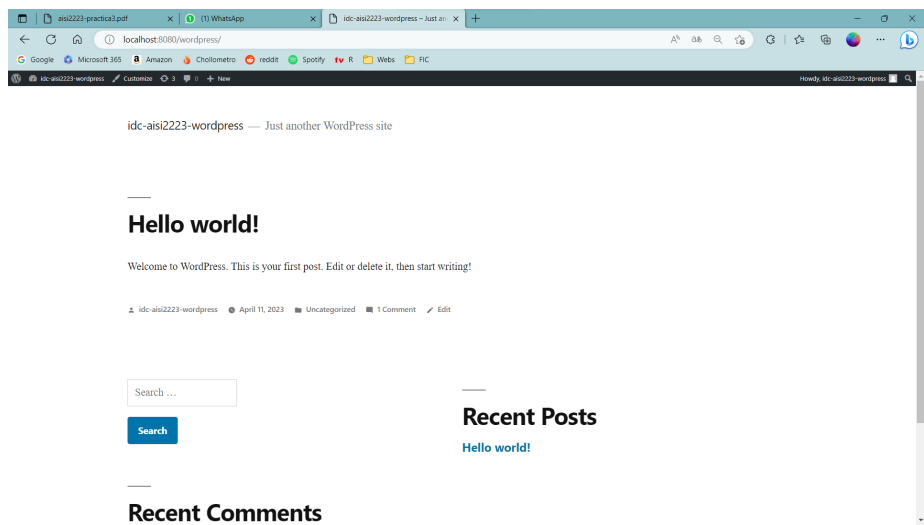


Figure 9: Aspecto por defecto del sitio web