



# **Instituto Politécnico Nacional**

## **Escuela Superior de Cómputo**

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Práctica 1 - Servidor de Aplicación

EVIDENCIAS

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# Listings

## CAPÍTULO 1

# Evidencias

## 1.1. Contenedor 1

### **1.1.1. Acceso al servicio**

- #### 1. Acceso a contenedor virtual por IP.



**Figura 1.1:** Acceso a contenedor virtual por IP

- ## 2. Acceso a contenedor virtual por dominio.



**Figura 1.2:** Acceso a contenedor virtual por dominio

```
Administrator:computer ~ % tail -5 /var/log/apache2/error.log
[...]
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index2.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index.php", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index3.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index4.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index5.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
Administrator:computer ~ % cat /var/log/apache2/error.log
[...]
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index2.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600}"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index.php", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index3.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index4.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
[127.0.0.1] "hostname": "127.0.0.1", "time": "2019-02-20T22:26:36", "method": "GET", "path": "/index5.jpg", "statusResponse": "200", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "[25/Feb/2019:22:26:36 +0600]"}
```

### 1.1.2. Restricciones de acceso

1. Restringir acceso al recurso por dirección IP del cliente.



ERROR 403 FORBIDDEN



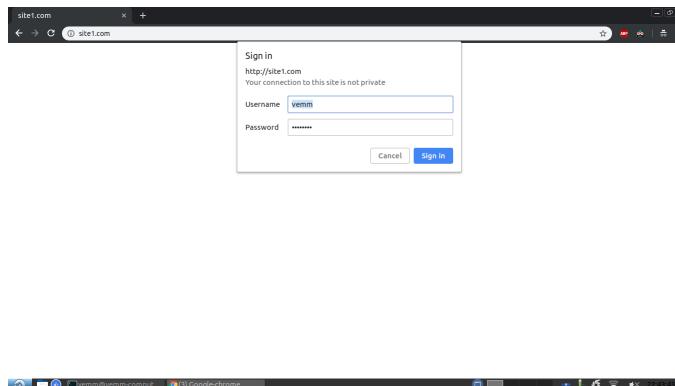
**Figura 1.3:** Restringir acceso al recurso por dirección IP del cliente

2. Restringir acceso al recurso por segmento de red
3. Restringir acceso al recurso por nombre de usuario (grupo de usuarios)/clave de acceso.

```
[root@computer ~]# curl -v http://127.0.0.1:8080/index.html
* Rebuilt URL to: http://127.0.0.1:8080/index.html
*   Trying 127.0.0.1...
* TCP_NODELAY set
* Connected to 127.0.0.1 (127.0.0.1) port 8080 (#0)
* HTTP request method "GET" does not support upgrade
< HTTP/1.1 200 OK
< Date: Tue, 25 Feb 2020 22:36:39 GMT
< Content-Type: text/html
< Content-Length: 13
< Connection: keep-alive
<
<--> index.html
* Connection #0 to host 127.0.0.1 left intact
[{"id": 1, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "797", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/index.html", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00001]"}, {"id": 2, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00002]"}, {"id": 3, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00003]"}, {"id": 4, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00004]"}, {"id": 5, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00005]"}, {"id": 6, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00006]"}, {"id": 7, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00007]"}, {"id": 8, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00008]"}, {"id": 9, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00009]"}, {"id": 10, "ip": "127.0.0.1", "hostname": "127.0.0.1", "TimeTakenServer": "355", "protocol": "HTTP/1.1", "method": "GET", "karn": "1", "url": "/", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2020:22:36:39][00010]"}]
```



**Figura 1.4:** Restringir acceso al recurso por segmento de red



**Figura 1.5:** Restringir acceso al recurso por nombre de usuario (grupo de usuarios)/clave de acceso



### 1.1.3. Configuración de servicio con seguridad en el transporte

- #### 1. Configuración de puerto de operación.

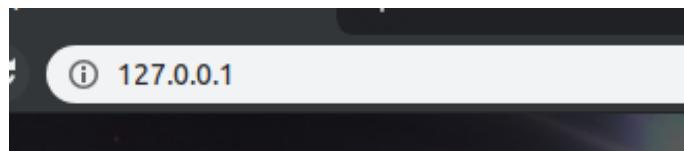


**Figura 1.6:** Configuración de puerto de operación

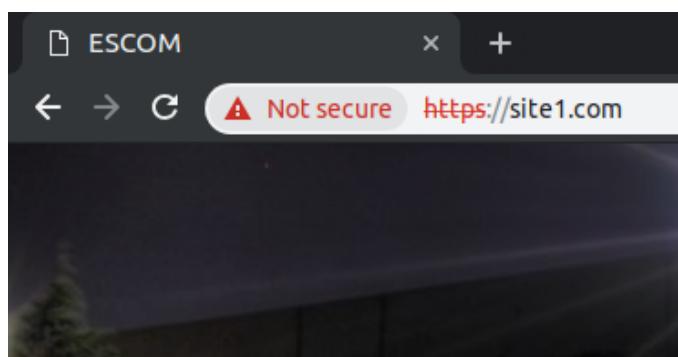
2. Servidor de aplicación utilizando el protocolo HTTPS.
  3. Definición de certificados /llaves de operación.
  4. Certificados auto firmados.
  5. Certificados firmados por un tercero (Autoridad certificadora)
  6. Trama de elemento cifrado

#### 1.1.4. Personalización de páginas de error

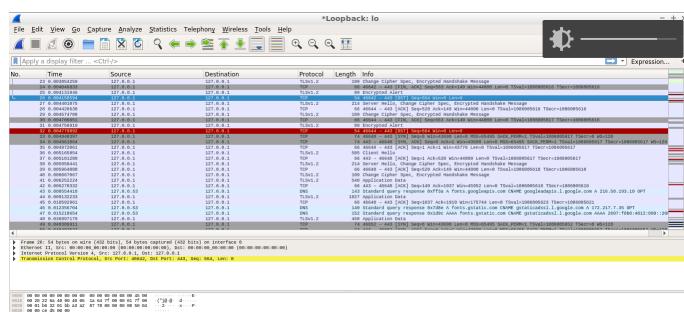
1. Error 1: Tipo y muestra.
  2. Error 2: Tipo y muestra.



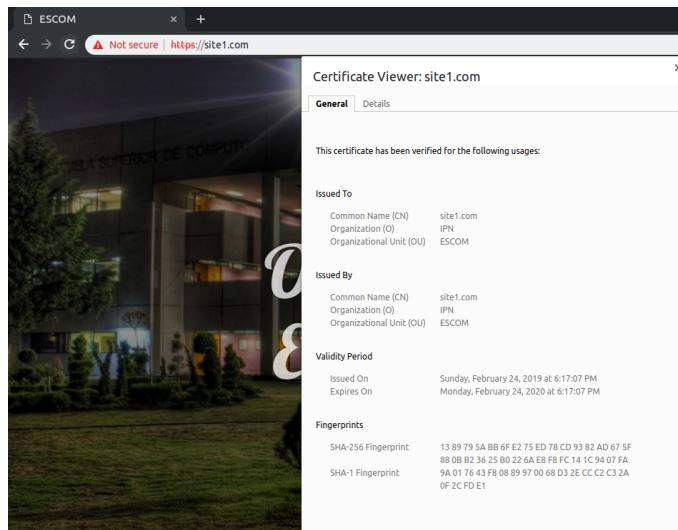
```
www.yeyeme.com - - [25/Feb/2019:22:49] "GET /index.php? HTTP/1.1" "method": "GET", "path": "/index.php", "statusResponse": "+", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3606.109 Safari/537.36", "time": "[25/Feb/2019:22:49:09 +0000]"}
```



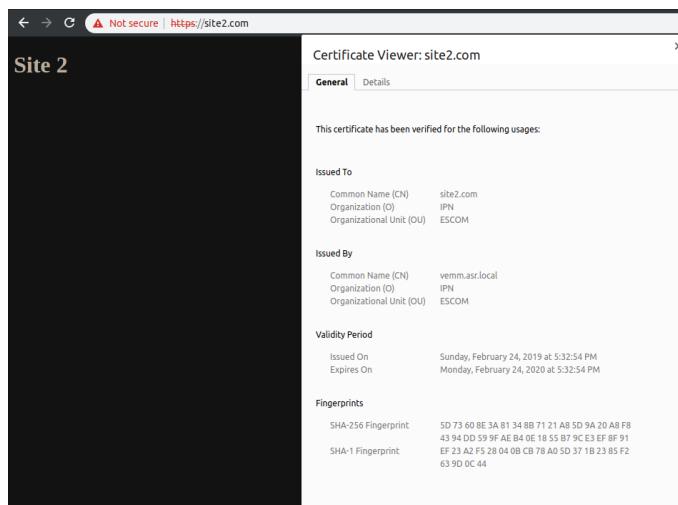
**Figura 1.7:** Servidor de aplicación utilizando el protocolo HTTPS



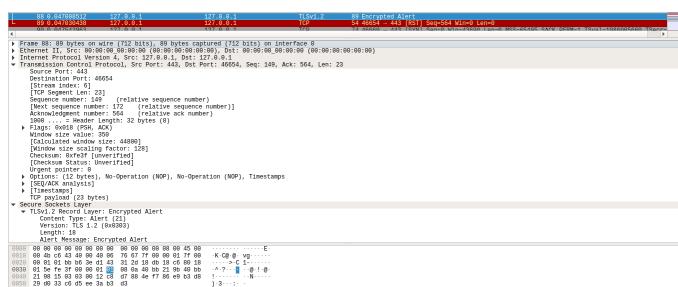
**Figura 1.8:** Definición de certificados /llaves de operación



**Figura 1.9:** Certificados auto firmados



**Figura 1.10:** Certificados firmados por un tercero (Autoridad certificadora)



**Figura 1.11:** Trama de elemento cifrado



ERROR 401 UNAUTHORIZED



Figura 1.12: Error 1: Tipo y muestra

```
[root@vmm ~]# tail -f /var/log/nginx/error.log |tail -5
["ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "64", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "704", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "705", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "706", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "707", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "708", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "709", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}, {"ip": "127.0.0.1", "hostname": "127.0.0.1", "timetakenServer": "710", "protocol": "HTTP/1.1", "method": "GET", "path": "/algosFramework/validator/0/1/localization/valdator", "statusResponse": "200", "statusMessage": "OK", "userAgent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.109 Safari/537.36", "time": "12/02/2019 22:56:26 [0000]", "latency": "0", "msLatency": "0", "latencyStat": "0", "latencyMin": "0", "latencyMax": "0", "latencyAvg": "0", "latencyMedian": "0", "latencyP90": "0", "latencyP99": "0", "latencyP99_99": "0", "latencyP99_999": "0"}]
```

3. Error 3: Tipo y muestra.

### 1.1.5. Configuración de archivos de bitácoras

- Nivel de configuración de operación y definición del tipo de dato.
- Nivel de configuración y mensajes de error

### 1.1.6. Resumen de operación de forma dinámica (Sitios, solicitudes, estado del sistema y recursos consumidos)

- Configuración y módulos activados
- Muestra de resumen de operación del servidor

### 1.1.7. Tablas de resumen de operación

- Resumen de operación de servidor (Tabla de aplicación generada por usuario).
- Resumen de errores del servidor (Tabla de aplicación generada por usuario)





```
vemm@vemm-computer:~$ apachectl -M
Loaded Modules:
 core_module (static)
 so_module (static)
 http_module (static)
 mpm_event_module (static)
 authn_file_module (shared)
 authn_core_module (shared)
 authz_host_module (shared)
 authz_groupfile_module (shared)
 authz_user_module (shared)
 authz_core_module (shared)
 access_compat_module (shared)
 auth_basic_module (shared)
 reqtimeout_module (shared)
 filter_module (shared)
 mime_module (shared)
 log_config_module (shared)
 env_module (shared)
 headers_module (shared)
 setenvif_module (shared)
 version_module (shared)
 unixd_module (shared)
 status_module (shared)
 autoindex_module (shared)
 dir_module (shared)
 alias_module (shared)
vemm@vemm-computer:~$ _
```

Figura 1.17: Configuración y módulos activados

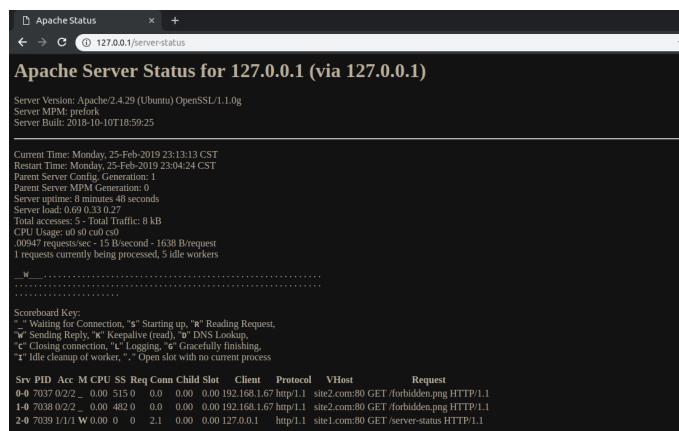
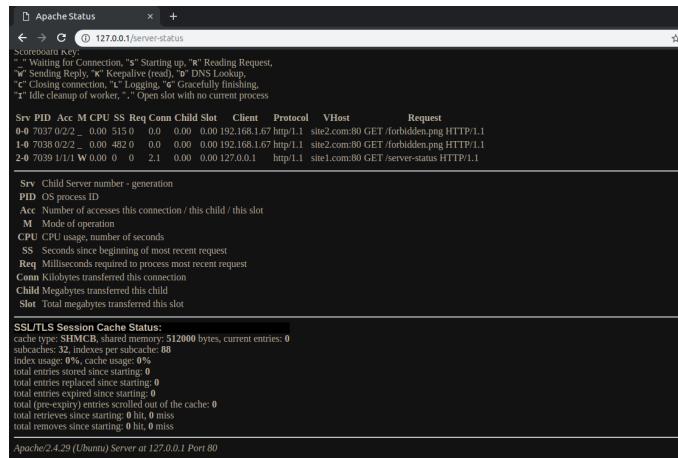


Figura 1.18: Muestra de resumen de operación del servidor



```
vemm@vemm-computer:~/workspaces/escom192/consumer - + x
File Edit Tabs Help
vemm@vemm-computer:~/workspaces/escom192/consumer$ mvn spring-boot:run
[INFO] Scanning for projects...
[INFO] 
[INFO] Building consumer 0.0.1-SNAPSHOT
[INFO] 
[INFO] >>> spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) > test-compile @ consumer
>>>
[INFO] --- maven-resources-plugin:3.1.0:resources (default-resources) @ consumer ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO] 
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ consumer ---
[INFO] Nothing to compile - all classes are up to date
[INFO] 
[INFO] --- maven-resources-plugin:3.1.0:testResources (default-testResources) @ consumer ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/vemm/workspaces/escom192/consumer/src/test/resources
[INFO] 
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ consumer ---
[INFO] Nothing to compile - all classes are up to date
[INFO] 
<<<
[INFO] 
[INFO] <<< spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) < test-compile @ consumer
<<<
[INFO] 
[INFO] --- spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) @ consumer ---
[INFO] 
[INFO] :: Spring Boot ::      (v2.1.3.RELEASE)
[INFO] 
[INFO] 2019-02-25 23:15:22.326  INFO 7547  [           main] com.asr.consumer.ConsumerApplication : Starting ConsumerApplication on vemm-computer with PID 7547 (/home/vemm/workspaces/escom192/consumer/target/classes) started by vemm in /home/vemm/workspaces/escom192/consumer
[INFO] 2019-02-25 23:15:22.331  INFO 7547  [           main] com.asr.consumer.ConsumerApplication : The following profiles are active: dev
```

Figura 1.19: Resumen de operación de servidor

The screenshot shows a browser displaying the contents of a log file at [127.0.0.1/table/index.html](http://127.0.0.1/table/index.html). The log entries are categorized under the 'ERROR' section:

| ID               | LEVEL | MESSAGE  | TIME                      |
|------------------|-------|--|---------------------------|
| 127.0.0.1/443/1  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/2  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/3  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/4  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/5  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/6  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/7  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/8  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/9  | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/10 | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/11 | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |
| 127.0.0.1/443/12 | error | script 'www.vemm.com/logo.php' not found or unable to stat | May 09 21:14:45 2019/2019 |

| Resumen   |           |                      |          |        |      |   |        |       |  |
|-----------|-----------|----------------------|----------|--------|------|---|--------|-------|--|
| SUMMARY   |           |                      |          |        |      |   |        |       |  |
| ACCESS    |           |                      |          |        |      |   |        |       |  |
| IP        | HOSTNAME  | TIME TAKEN TO SERVER | PROTOCOL | METHOD | NAME | URL   | STATUS | BYTES | USER AGENT   |
| 127.0.0.1 | 127.0.0.1 | 3034                 | HTTP/1.1 | GET    | 0    | /index.php  | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 3033                 | HTTP/1.1 | GET    | 0    | /index.php  | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 1000                 | HTTP/1.1 | GET    | 1    | /index.php  | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 1002                 | HTTP/1.1 | GET    | 7    | /images/icon.png  | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 9991                 | HTTP/1.1 | GET    | 0    | /index.html   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 695                  | HTTP/1.1 | GET    | 0    | /index.html   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 1118                 | HTTP/1.1 | GET    | 10   | /index.html   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 997                  | HTTP/1.1 | GET    | 12   | /index.html   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 1046                 | HTTP/1.1 | GET    | 0    | /Project/monitordatos/parametros/consultarParametros.js | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 738                  | HTTP/1.1 | GET    | 0    | /   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 298                  | HTTP/1.1 | GET    | 1    | /Spring   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |
| 127.0.0.1 | 127.0.0.1 | 291                  | HTTP/1.1 | GET    | 2    | /   | -      | -     | Mozilla/5.0(X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/72.0.3626.102 Safari/537.36 |

Figura 1.20: Resumen de errores del servidor

```
vemm@vemm-computer:~/workspaces/escom192/monitor$ mvn spring-boot:run
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building monitor 0.0.1-SNAPSHOT
[INFO] -----
[INFO] >>> spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) > test-compile @ monitor >
>>
[INFO]
[INFO] --- maven-resources-plugin:3.1.0:resources (default-resources) @ monitor ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ monitor ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.1.0:testResources (default-testResources) @ monitor ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/vemm/workspaces/escom192/monitor/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ monitor ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) < test-compile @ monitor <
<
[INFO]
[INFO] --- spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) @ monitor ---
[INFO]
[INFO] --- spring-boot-maven-plugin:2.1.3.RELEASE:run (default-cli) @ monitor ---

 :: Spring Boot ::      (v2.1.3.RELEASE)

2019-02-25 23:18:15.375  INFO 7951 --- [           main] com.asr.monitor.MonitorApplication      : Starting MonitorApplication on vemm-computer with PID 7951 (/home/vemm/workspaces/escom192/monitor)

```