

UNIVERSIDAD AUTÓNOMA DE
CHIAPAS

FACULTAD DE CONTADURÍA Y
ADMINISTRACIÓN CAMPUS 1

Sistemas operativos

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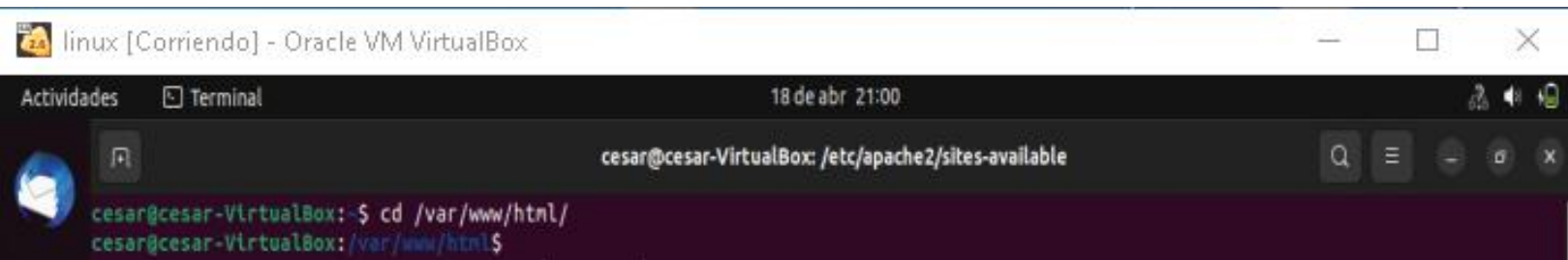
Matricula: A201068

Configurar el servidor HTTPS

CAPTURAS DE PANTALLA

Paso 1:

Ir al var/www/html



The screenshot shows a terminal window titled "linux [Corriendo] - Oracle VM VirtualBox". The terminal prompt is "cesar@cesar-VirtualBox: /etc/apache2/sites-available". The user has entered the command "cd /var/www/html/" and the prompt has changed to "cesar@cesar-VirtualBox: /var/www/html\$".

```
cesar@cesar-VirtualBox: /etc/apache2/sites-available
cesar@cesar-VirtualBox:~$ cd /var/www/html/
cesar@cesar-VirtualBox: /var/www/html$
```

Paso2:

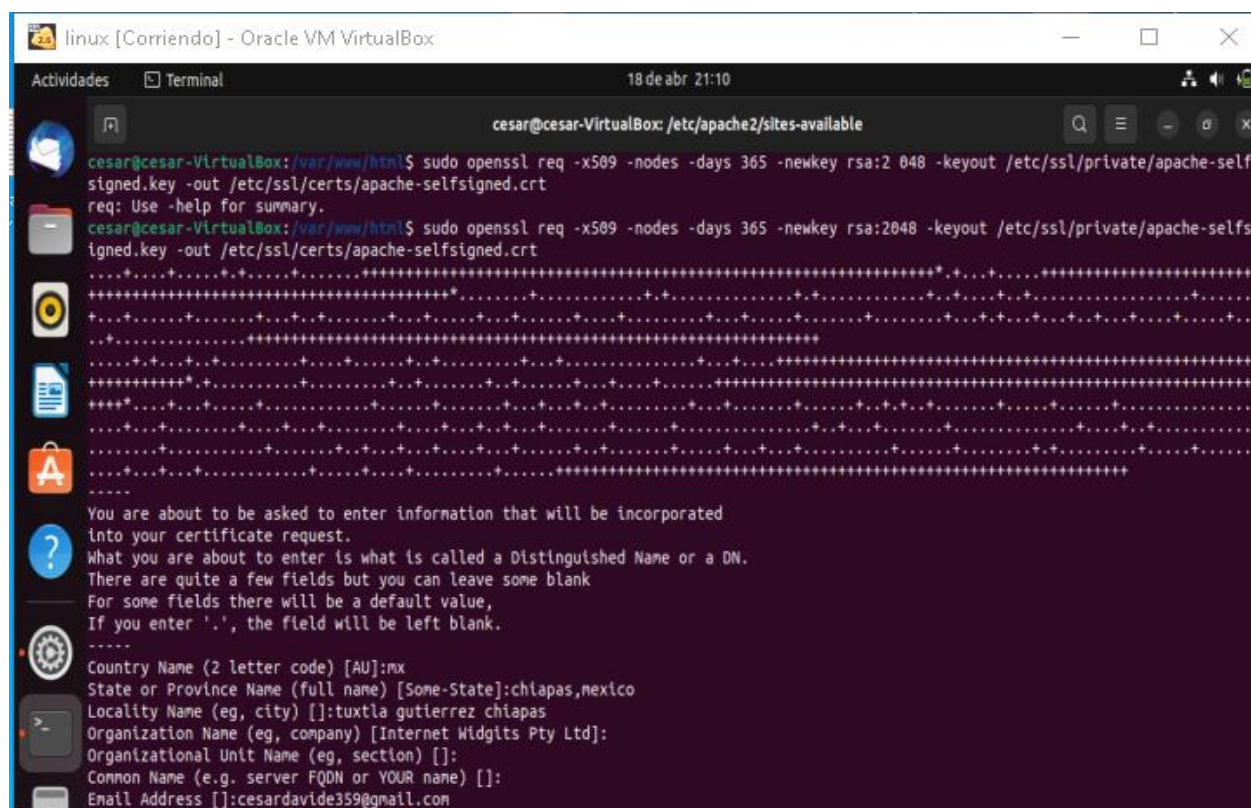
Instalación del módulo ssl y reiniciamos apache2



The screenshot shows a terminal window with the following commands and output:

```
cesar@cesar-VirtualBox: /var/www/html$ sudo a2enmod ssl
[sudo] contraseña para cesar:
Considering dependency setenvif for ssl:
Module setenvif already enabled
Considering dependency mime for ssl:
Module mime already enabled
Considering dependency socache_shmcb for ssl:
Module socache_shmcb already enabled
Module ssl already enabled
cesar@cesar-VirtualBox: /var/www/html$ sudo systemctl restart apache2
cesar@cesar-VirtualBox: /var/www/html$
```

Se instaló el certificado



Paso 4:

```
cesar@cesar-VirtualBox:/var/www/html$ cd /etc/apache2/sites-available/
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ ls
000-default.conf default-ssl.conf universidad.conf
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo cat universidad.conf
<VirtualHost *:80>
```

Paso 5: copiar 000-default.conf y renombrarlo con el nombre de la carpeta de la pagina

```
cesar@cesar-VirtualBox: /etc/apache2/sites-available
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo nano universidad.conf
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo cat 000-default.conf
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

Activar la configuración y reiniciar apache2

```
cesar@cesar-VirtualBox: /etc/apache2/sites-available$ ls
000-default.conf  default-ssl.conf  universidad.conf
cesar@cesar-VirtualBox: /etc/apache2/sites-available$ sudo a2ensite website.conf
ERROR: /etc/apache2/sites-enabled/website.conf is a dangling symlink!
ERROR: Site website does not exist!
cesar@cesar-VirtualBox: /etc/apache2/sites-available$ sudo a2ensite universidad.conf
Enabling site universidad.
To activate the new configuration, you need to run:
  systemctl reload apache2
```

```
cesar@cesar-VirtualBox: /etc/apache2/sites-available$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this message
Syntax OK
cesar@cesar-VirtualBox: /etc/apache2/sites-available$ sudo systemctl restart apache2
cesar@cesar-VirtualBox: /etc/apache2/sites-available$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-04-18 17:58:55 CST; 1min 38s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 33968 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 33973 (apache2)
     Tasks: 55 (limit: 5499)
    Memory: 6.5M
       CPU: 198ms
   CGroup: /system.slice/apache2.service
           └─33973 /usr/sbin/apache2 -k start
             └─33974 /usr/sbin/apache2 -k start
               └─33975 /usr/sbin/apache2 -k start

abr 18 17:58:55 cesar-VirtualBox systemd[1]: Starting The Apache HTTP Server...
abr 18 17:58:55 cesar-VirtualBox apachectl[33972]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this message
abr 18 17:58:55 cesar-VirtualBox systemd[1]: Started The Apache HTTP Server.
```

paso 7

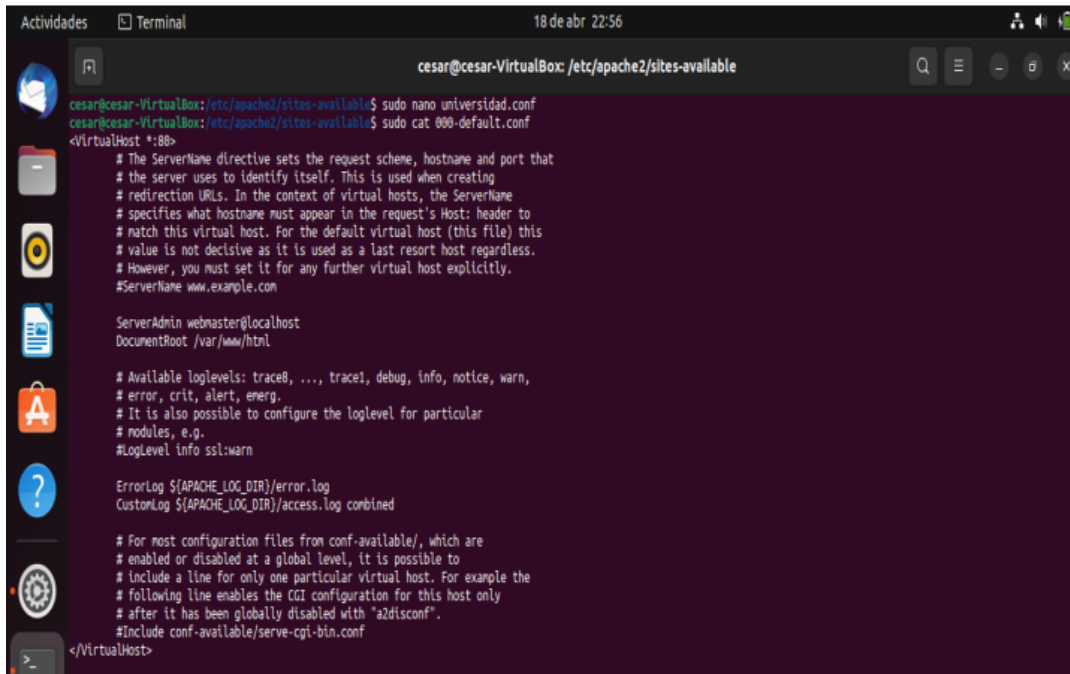
```
cesar@cesar-VirtualBox: /etc/apache2/sites-available
cesar@cesar-VirtualBox: /var/www/html$ ls
index.html  universidad
cesar@cesar-VirtualBox: /var/www/html$
```

Paso 8:

```
cesar@cesar-VirtualBox: /etc/apache2/sites-available
cesar@cesar-VirtualBox: $ sudo a2ensite default-ssl.conf
Site default-ssl already enabled
cesar@cesar-VirtualBox: $
cesar@cesar-VirtualBox: $ sudo service apache2 restart
cesar@cesar-VirtualBox: $ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-04-18 18:09:15 CST; 1min 8s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 41787 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 41792 (apache2)
     Tasks: 55 (limit: 5499)
    Memory: 6.5M
       CPU: 161ms
   CGroup: /system.slice/apache2.service
           └─41792 /usr/sbin/apache2 -k start
             41793 /usr/sbin/apache2 -k start
             41794 /usr/sbin/apache2 -k start

abr 18 18:09:15 cesar-VirtualBox systemd[1]: Starting The Apache HTTP Server...
abr 18 18:09:15 cesar-VirtualBox apachectl[41790]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.0.1. Set the 'ServerName' directive globally to suppress this message
abr 18 18:09:15 cesar-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-17/17 (END)
```

Paso 9



A terminal window titled "cesar@cesar-VirtualBox: /etc/apache2/sites-available" with a search bar and window controls. The terminal shows the user running two commands: `sudo nano universidad.conf` and `sudo cat 000-default.conf`. The output displays the content of `000-default.conf`, which is a template for a virtual host configuration. The configuration includes comments explaining the `ServerName` directive, the `ServerAdmin` email, the `DocumentRoot`, log levels, log file locations, and the `Include` directive for the CGI configuration. The configuration is enclosed in `<VirtualHost *>` tags.

```
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo nano universidad.conf
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo cat 000-default.conf
<VirtualHost *>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

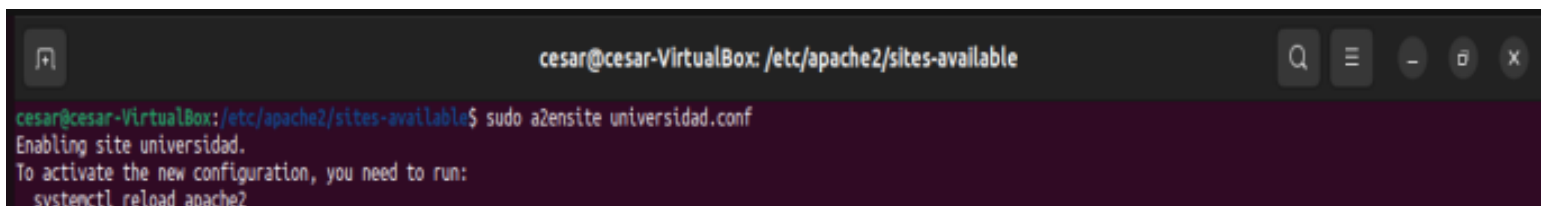
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
```

Paso 10:



A terminal window titled "cesar@cesar-VirtualBox: /etc/apache2/sites-available" with a search bar and window controls. The terminal shows the user running the command `sudo a2ensite universidad.conf`. The output indicates that the site has been enabled and provides instructions on how to activate the new configuration by running `systemctl reload apache2`.

```
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo a2ensite universidad.conf
Enabling site universidad.
To activate the new configuration, you need to run:
  systemctl reload apache2
```



```
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo systemctl restart apache2
cesar@cesar-VirtualBox:/etc/apache2/sites-available$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-04-18 17:58:55 CST; 1min 30s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 33968 ExecStart=/usr/sbin/apachectl start (code=exited, status=0)
   Main PID: 33973 (apache2)
    Tasks: 55 (limit: 5499)
   Memory: 6.5M
     CPU: 198ms
   CGroup: /system.slice/apache2.service
           └─33973 /usr/sbin/apache2 -k start
             33974 /usr/sbin/apache2 -k start
             33975 /usr/sbin/apache2 -k start

abr 18 17:58:55 cesar-VirtualBox systemd[1]: Starting The Apache HTTP Server...
abr 18 17:58:55 cesar-VirtualBox apachectl[33972]: AH00558: apache2: Could not
abr 18 17:58:55 cesar-VirtualBox systemd[1]: Started The Apache HTTP Server.
```

