

Administrarea Serverelor WEB

Studiu Individual nr. 1

Configurarea unui WEB Server – Nginx sau Apache pe Ubuntu Server



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Nota:

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Sarcina:

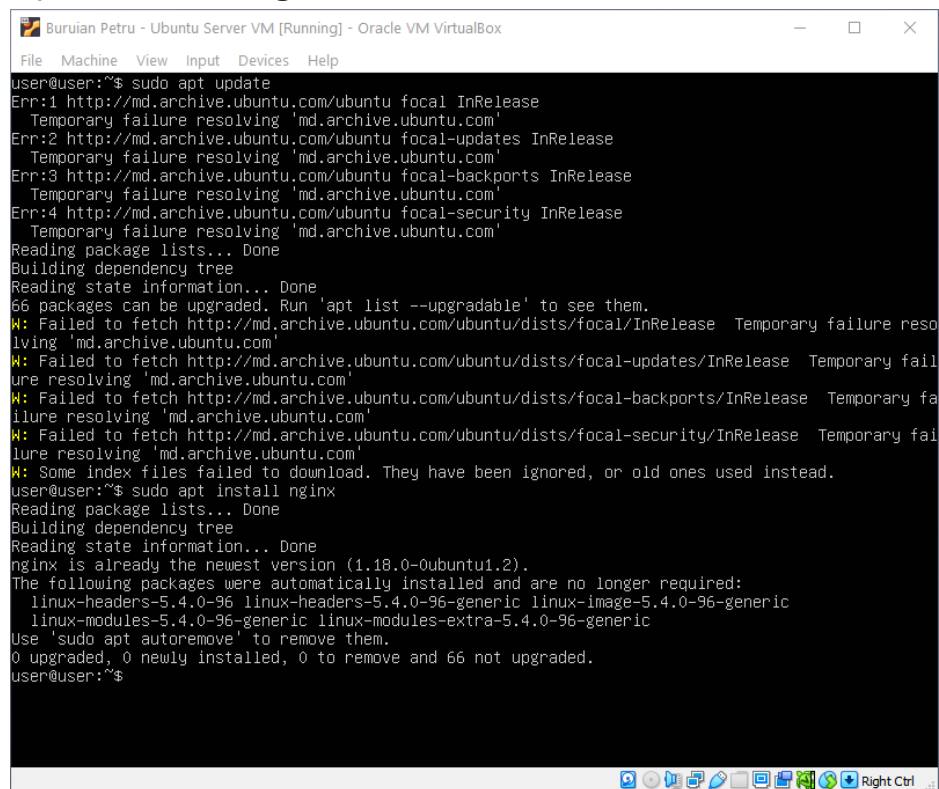
Instalarea și configurare Web Serverelor

La alegere instalați configurați un WEBServe: (Apache sau Nginx) pe Ubuntu Server.

Instalarea Nginx

1. Introducem următoarele comenzi:

```
sudo apt update  
sudo apt install nginx
```

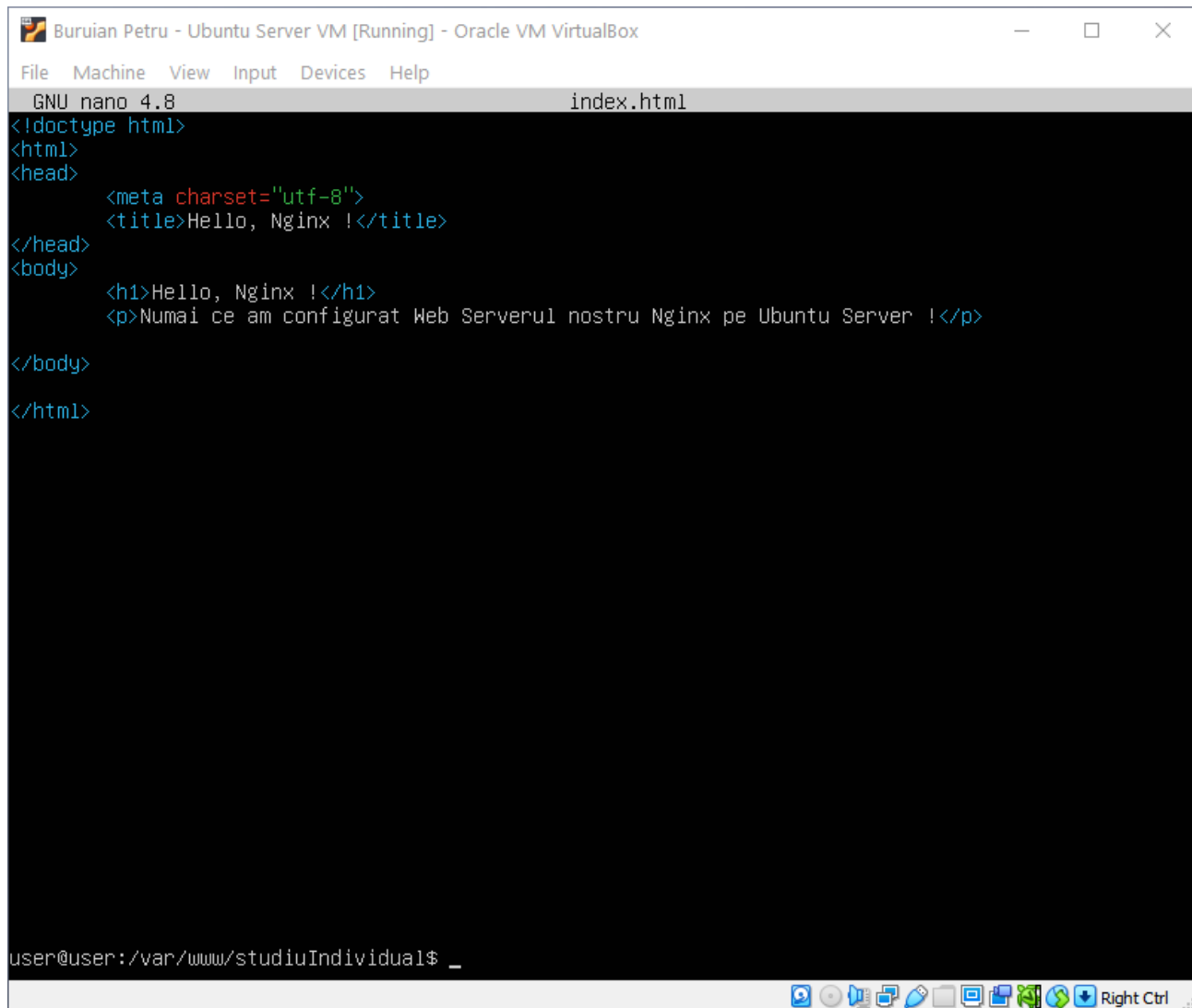


```
Buruian Petru - Ubuntu Server VM [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
user@user:~$ sudo apt update
Err:1 http://md.archive.ubuntu.com/ubuntu focal InRelease
  Temporary failure resolving 'md.archive.ubuntu.com'
Err:2 http://md.archive.ubuntu.com/ubuntu focal-updates InRelease
  Temporary failure resolving 'md.archive.ubuntu.com'
Err:3 http://md.archive.ubuntu.com/ubuntu focal-backports InRelease
  Temporary failure resolving 'md.archive.ubuntu.com'
Err:4 http://md.archive.ubuntu.com/ubuntu focal-security InRelease
  Temporary failure resolving 'md.archive.ubuntu.com'
Reading package lists... Done
Building dependency tree
Reading state information... Done
66 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: Failed to fetch http://md.archive.ubuntu.com/ubuntu/dists/focal/InRelease Temporary failure res
olving 'md.archive.ubuntu.com'
W: Failed to fetch http://md.archive.ubuntu.com/ubuntu/dists/focal-updates/InRelease Temporary fail
ure resolving 'md.archive.ubuntu.com'
W: Failed to fetch http://md.archive.ubuntu.com/ubuntu/dists/focal-backports/InRelease Temporary fa
ilure resolving 'md.archive.ubuntu.com'
W: Failed to fetch http://md.archive.ubuntu.com/ubuntu/dists/focal-security/InRelease Temporary fai
lure resolving 'md.archive.ubuntu.com'
W: Some index files failed to download. They have been ignored, or old ones used instead.
user@user:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
nginx is already the newest version (1.18.0-0ubuntu1.2).
The following packages were automatically installed and are no longer required:
  linux-headers-5.4.0-96 linux-headers-5.4.0-96-generic linux-image-5.4.0-96-generic
  linux-modules-5.4.0-96-generic linux-modules-extra-5.4.0-96-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 66 not upgraded.
user@user:~$
```

2. Cream o simpla pagina HTML in /var/www/exemplu
Introducem comenzile:

```
sudo mkdir /var/www/exemplu  
sudo nano index.html
```

Vom scrie un Home-Page care va arata ca am configurat totul cu success

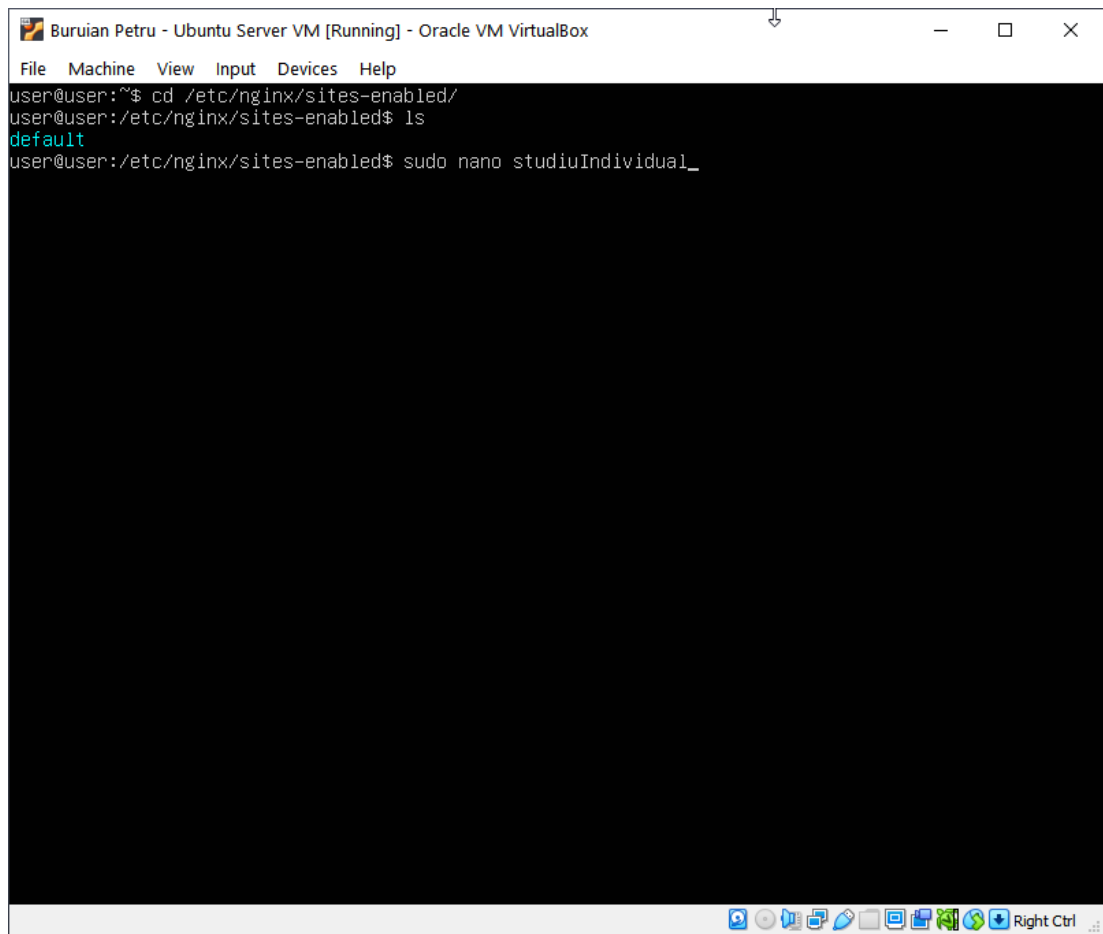


The screenshot shows a terminal window titled "Buruian Petru - Ubuntu Server VM [Running] - Oracle VM VirtualBox". The terminal is running the GNU nano 4.8 text editor, editing a file named "index.html". The code being written is a simple HTML document. The terminal prompt at the bottom is "user@user:/var/www/studiuIndividual\$ _". The window has a standard Ubuntu desktop environment with various icons in the taskbar at the bottom.

```
Buruian Petru - Ubuntu Server VM [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 4.8 index.html
<!doctype html>
<html>
<head>
  <meta charset="utf-8">
  <title>Hello, Nginx !</title>
</head>
<body>
  <h1>Hello, Nginx !</h1>
  <p>Numai ce am configurat Web Serverul nostru Nginx pe Ubuntu Server !</p>
</body>
</html>

user@user:/var/www/studiuIndividual$ _
```

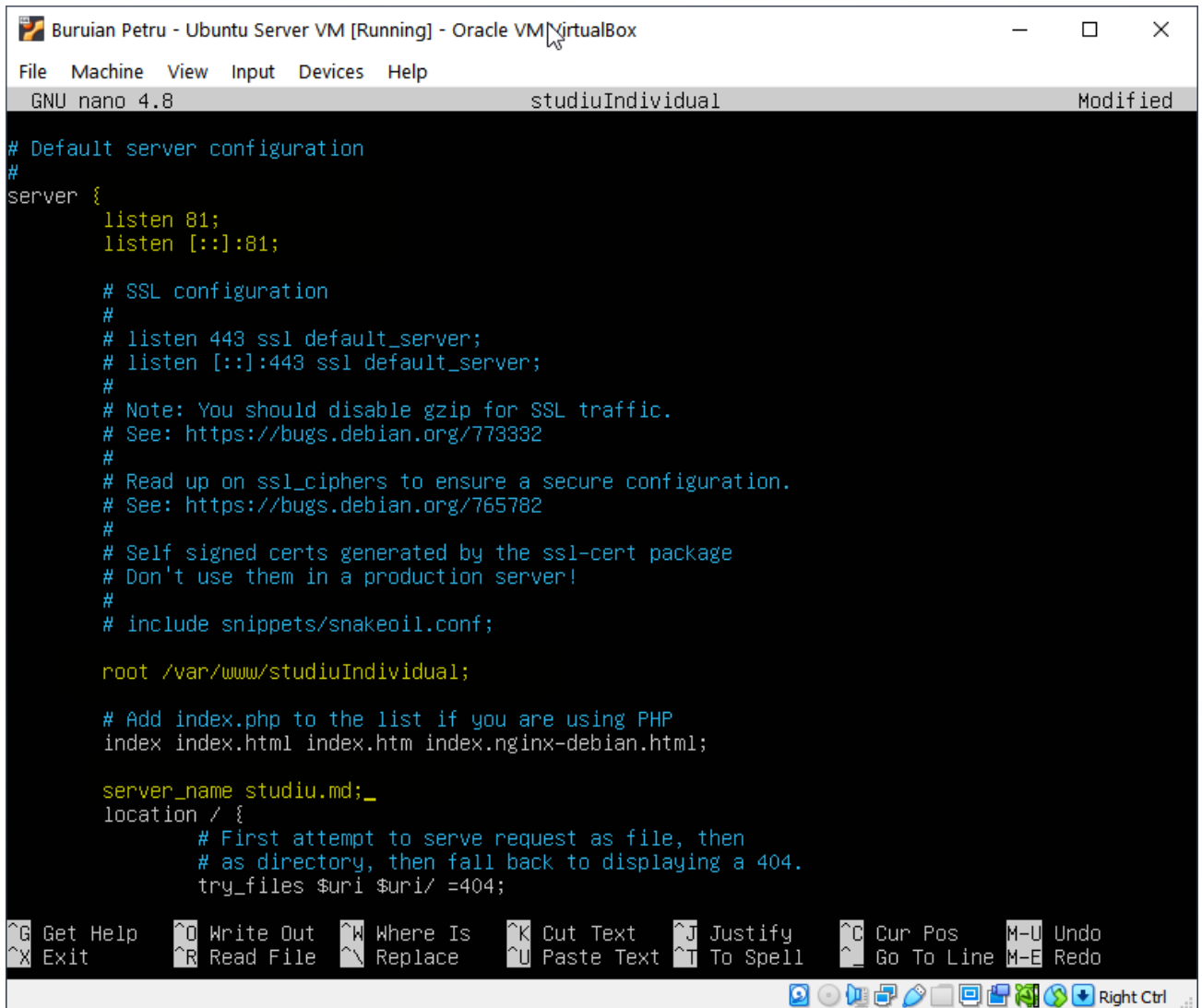
3. Setarea hostului virtual



The screenshot shows a window titled "Buruian Petru - Ubuntu Server VM [Running] - Oracle VM VirtualBox". The window contains a terminal interface with the following text:

```
File Machine View Input Devices Help
user@user:~$ cd /etc/nginx/sites-enabled/
user@user:/etc/nginx/sites-enabled$ ls
default
user@user:/etc/nginx/sites-enabled$ sudo nano studiuIndividual_
```

The terminal output shows the user navigating to the `/etc/nginx/sites-enabled/` directory, listing its contents (which includes `default`), and then attempting to edit a file named `studiuIndividual_` using the `nano` editor with `sudo` privileges. The rest of the terminal area is black, indicating the editor is open but its content is not visible. The window has a standard Ubuntu desktop environment at the bottom with various icons and a "Right Ctrl" button.



```
# Default server configuration
#
server {
    listen 81;
    listen [::]:81;

    # SSL configuration
    #
    # listen 443 ssl default_server;
    # listen [::]:443 ssl default_server;
    #
    # Note: You should disable gzip for SSL traffic.
    # See: https://bugs.debian.org/773332
    #
    # Read up on ssl_ciphers to ensure a secure configuration.
    # See: https://bugs.debian.org/765782
    #
    # Self signed certs generated by the ssl-cert package
    # Don't use them in a production server!
    #
    # include snippets/snakeoil.conf;

    root /var/www/studiuIndividual;

    # Add index.php to the list if you are using PHP
    index index.html index.htm index.nginx-debian.html;

    server_name studiu.md;_
    location / {
        # First attempt to serve request as file, then
        # as directory, then fall back to displaying a 404.
        try_files $uri $uri/ =404;
    }
}
```

Verificarea statusului de lucru al WEB serverului Nginx

Introducem comanda:

`sudo service nginx status`

```
Buruian Petru - Ubuntu Server VM [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

# Don't use them in a production server!
#
# include snippets/snakeoil.conf;

root /var/www/studiuIndividual;

# Add index.php to the list if you are using PHP
index index.html index.htm index.nginx-debian.html;

server_name studiu.md;
location / {
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    try_files $uri $uri/ =404;
}

user@user:/etc/nginx/sites-enabled$ sudo service nginx status
[sudo] password for user:
• nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2022-03-18 19:09:47 UTC; 1h 18min ago
     Docs: man:nginx(8)
   Process: 764 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, >
   Process: 816 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/>
   Main PID: 819 (nginx)
      Tasks: 4 (limit: 1877)
     Memory: 13.4M
    CGroup: /system.slice/nginx.service
            └─819 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
              └─820 nginx: worker process
                └─821 nginx: worker process
                  └─822 nginx: worker process

Mar 18 19:09:45 user systemd[1]: Starting A high performance web server and a reverse proxy server.>
Mar 18 19:09:47 user systemd[1]: Started A high performance web server and a reverse proxy server.
user@user:/etc/nginx/sites-enabled$ _
```