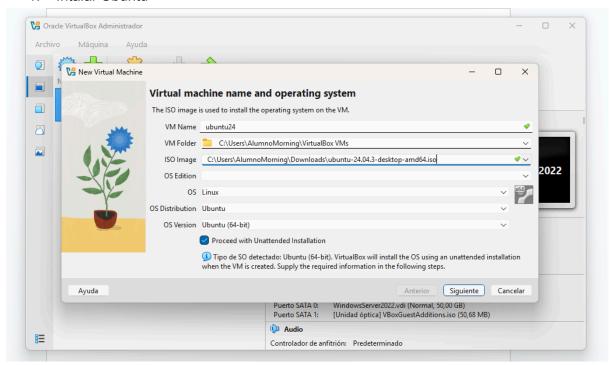
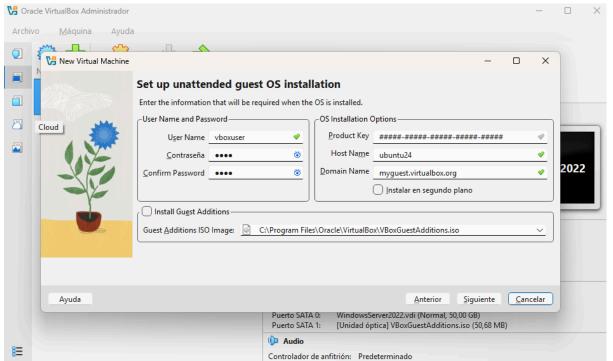
Arquitectura en la Nube

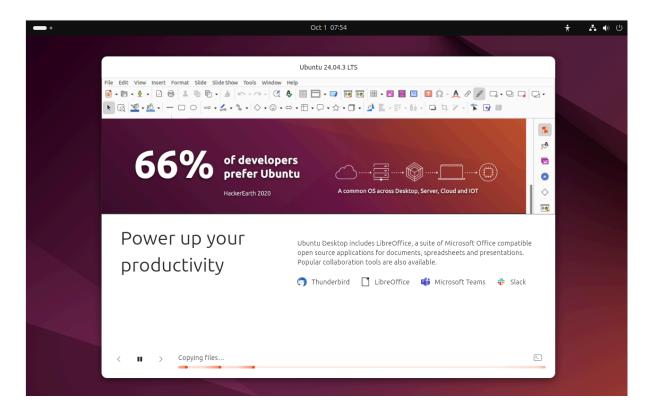
1. Intalar Ubuntu



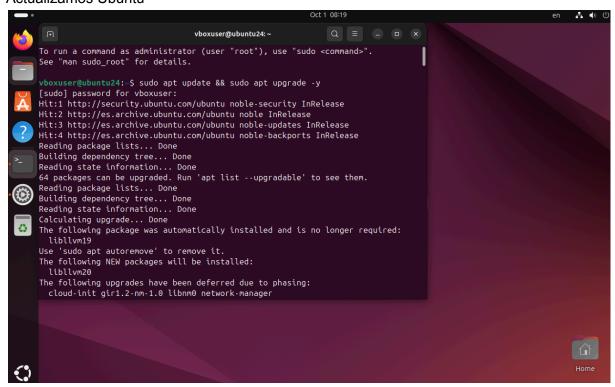
2. Configurar



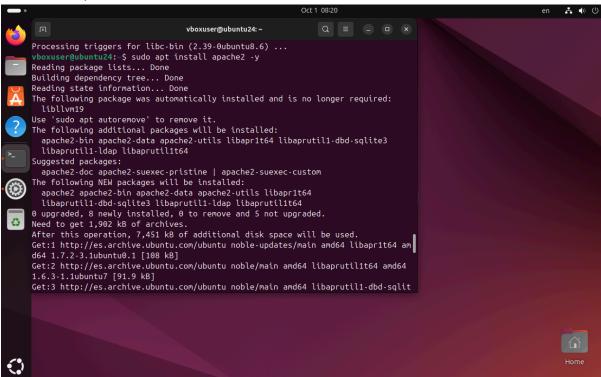
3. Instalación



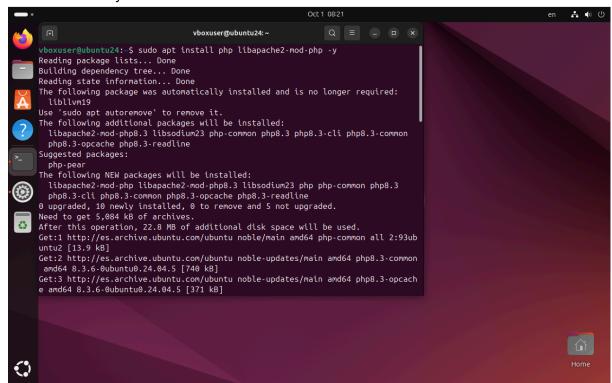
Actualizamos Ubuntu



Instalamos Apache2



Instalamos PHP y su modulo



Iniciamos Apache

```
pdate-alternatives: using /usr/bin/phar8.3 to provide /usr/bin/phar (phar)
to mode
pdate-alternatives: using /usr/bin/phar.phar8.3 to provide /usr/bin/phar.ph
har.phar) in auto mode
reating config file /etc/php/8.3/cli/php.ini with new version
etting up libapache2-mod-php8.3 (8.3.6-0ubuntu0.24.04.5) ...
reating config file /etc/php/8.3/apache2/php.ini with new version
odule mpm_event disabled.
nabling module mpm_prefork.
pache2_switch_mpm Switch to prefork
pache2 invoke: Enable module php8.3
etting up php8.3 (8.3.6-0ubuntu0.24.04.5) ...
etting up libapache2-mod-php (2:8.3+93ubuntu2) ...
etting up php (2:8.3+93ubuntu2) ...
rocessing triggers for man-db (2.12.0-4build2) ...
rocessing triggers for libc-bin (2.39-0ubuntu8.6) ...
rocessing triggers for php8.3-cli (8.3.6-0ubuntu0.24.04.5) ...
rocessing triggers for libapache2-mod-php8.3 (8.3.6-0ubuntu0.24.04.5) ...
boxuser@ubuntu24:~$ sudo service apache2 start
boxuser@ubuntu24:~$
```

Hacemos status

```
vboxuser@ubuntu24: ~
                                                              Q II
Processing triggers for libapache2-mod-php8.3 (8.3.6-0ubuntu0.24.04.5) ...
vboxuser@ubuntu24:~$ sudo service apache2 start
vboxuser@ubuntu24:~$ sudo systemctl status apache2
apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: >
     Active: active (running) since Wed 2025-10-01 08:21:55 UTC; 4min 56s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 14385 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
   Main PID: 14388 (apache2)
      Tasks: 6 (limit: 4603)
     Memory: 10.6M (peak: 11.0M)
        CPU: 118ms
     CGroup: /system.slice/apache2.service
              -14388 /usr/sbin/apache2 -k start
              —14393 /usr/sbin/apache2 -k start
              —14394 /usr/sbin/apache2 -k start
              -14395 /usr/sbin/apache2 -k start
               -14396 /usr/sbin/apache2 -k start
             -14397 /usr/sbin/apache2 -k start
Oct 01 08:21:55 ubuntu24 systemd[1]: Starting apache2.service - The Apache HTTP>
Oct 01 08:21:55 ubuntu24 apachectl[14387]: AH00558: apache2: Could not reliably
Oct 01 08:21:55 ubuntu24 systemd[1]: Started apache2.service - The Apache HTTP
lines 1-20/20 (END)
```

Creamos el PHP

```
Q
                                vboxuser@ubuntu24: ~
    Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: >
    Active: active (running) since Wed 2025-10-01 08:21:55 UTC; 4min 56s ago
      Docs: https://httpd.apache.org/docs/2.4/
    Process: 14385 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
   Main PID: 14388 (apache2)
      Tasks: 6 (limit: 4603)
     Memory: 10.6M (peak: 11.0M)
        CPU: 118ms
     CGroup: /system.slice/apache2.service
              -14388 /usr/sbin/apache2 -k start
              -14393 /usr/sbin/apache2 -k start
              <del>-</del>14394 /usr/sbin/apache2 -k start
             —14395 /usr/sbin/apache2 -k start
              -14396 /usr/sbin/apache2 -k start
             Oct 01 08:21:55 ubuntu24 systemd[1]: Starting apache2.service - The Apache HTTP>
Oct 01 08:21:55 ubuntu24 apachectl[14387]: AH00558: apache2: Could not reliably>
Oct 01 08:21:55 ubuntu24 systemd[1]: Started apache2.service - The Apache HTTP >
vboxuser@ubuntu24:~$ echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.ph
<?php phpinfo(); ?>
vboxuser@ubuntu24:~S
```

Hay que instalar curl

```
vboxuser@ubuntu24: ~
                                                           Q
   Process: 14385 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
  Main PID: 14388 (apache2)
     Tasks: 6 (limit: 4603)
    Memory: 10.6M (peak: 11.0M)
       CPU: 118ms
    CGroup: /system.slice/apache2.service
             -14388 /usr/sbin/apache2 -k start
             —14393 /usr/sbin/apache2 -k start
             —14394 /usr/sbin/apache2 -k start
             -14395 /usr/sbin/apache2 -k start
              -14396 /usr/sbin/apache2 -k start
            Oct 01 08:21:55 ubuntu24 systemd[1]: Starting apache2.service - The Apache HTTP>
Oct 01 08:21:55 ubuntu24 apachectl[14387]: AH00558: apache2: Could not reliably>
Oct 01 08:21:55 ubuntu24 systemd[1]: Started apache2.service - The Apache HTTP >
vboxuser@ubuntu24:~$ echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.ph
<?php phpinfo(); ?>
vboxuser@ubuntu24:~$ curl http://localhost/info.php
Command 'curl' not found, but can be installed with:
sudo apt install curl
/hovuser@ubuntu24.~S
```

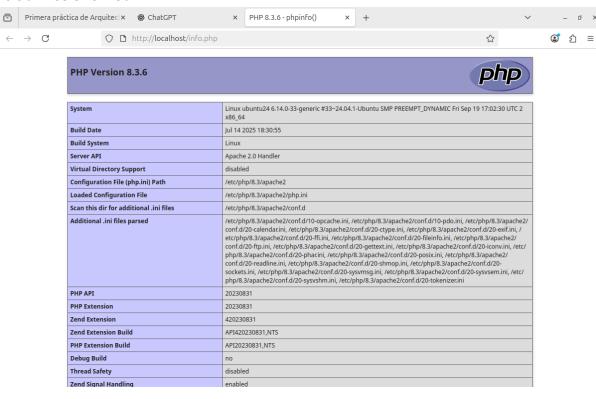
Instalamos curl

```
vboxuser@ubuntu24: ~
                                                              Q
vboxuser@ubuntu24:~$ curl http://localhost/info.php
Command 'curl' not found, but can be installed with:
sudo apt install curl
vboxuser@ubuntu24:~$ sudo apt install curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
 libllvm19
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
 curl
0 upgraded, 1 newly installed, 0 to remove and 5 not upgraded.
Need to get 226 kB of archives.
After this operation, 534 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.
5.0-2ubuntu10.6 [226 kB]
Fetched 226 kB in 0s (762 kB/s)
Selecting previously unselected package curl.
(Reading database ... 150982 files and directories currently installed.)
Preparing to unpack .../curl_8.5.0-2ubuntu10.6_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.6) ...
Setting up curl (8.5.0-2ubuntu10.6) ...
Processing triggers for man-db (2.12.0-4build2) ...
```

Hacemos curl del PHP

```
vboxuser@ubuntu24: ~
Processing triggers for man-db (2.12.0-4build2) \dots
vboxuser@ubuntu24:~$ curl http://localhost/info.php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-trans</pre>
itional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<style type="text/css">
body {background-color: #fff; color: #222; font-family: sans-serif;}
pre {margin: 0; font-family: monospace;}
a:link {color: #009; text-decoration: none; background-color: #fff;}
a:hover {text-decoration: underline;}
table {border-collapse: collapse; border: 0; width: 934px; box-shadow: 1px 2px 3
px rgba(0, 0, 0, 0.2);}
.center {text-align: center;}
.center table {margin: 1em auto; text-align: left;}
.center th {text-align: center !important;}
td, th {border: 1px solid #666; font-size: 75%; vertical-align: baseline; paddin
g: 4px 5px;}
th {position: sticky; top: 0; background: inherit;}
h1 {font-size: 150%;]
h2 {font-size: 125%;}
h2 a:link, h2 a:visited{color: inherit; background: inherit;}
.p {text-align: left;}
.e {background-color: #ccf; width: 300px; font-weight: bold;}
.h {background-color: #99c; font-weight: bold;}
```

Lo abrimos el la web



Instalamos Nginx

```
vboxuser@ubuntu24: ~
                                                              Q
/boxuser@ubuntu24:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
 libllvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
 nginx-common
Suggested packages:
 fcgiwrap nginx-doc
The following NEW packages will be installed:
 nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 5 not upgraded.
Need to get 564 kB of archives.
After this operation, 1,596 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common
all 1.24.0-2ubuntu7.5 [43.4 kB]
Get:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1
.24.0-2ubuntu7.5 [520 kB]
Fetched 564 kB in 1s (579 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 150989 files and directories currently installed.)
```

Detenemos apache2 y encendemos nginx

```
vboxuser@ubuntu24: ~
                                                                                                                                           Q =

.
//div></body></html>vsudo systemctl stop apache2
cydexyser@ubuntu24:-$ sudo systemetl disable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install disable apache2
Removed "/etc/systemd/system/multi-user.target.wants/apache2.service".
 boxuser@ubuntu24:~$ sudo systemctl start nginx
 boxuser@ubuntu24:~$ sudo systemctl enable nginx
synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service \rightarrow /usr/lib/systemd/system/nginx.service.
 boxuser@ubuntu24:~$ sudo systemctl status nginx
 nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
Active: active (running) since Wed 2025-10-01 09:01:44 UTC; 18s ago
   Docs: man:nginx(8)
Main PID: 20679 (nginx)
Tasks: 5 (limit: 4603)
Memory: 3.7M (peak: 4.2M)
          CPU: 15ms
      CGroup: /system.slice/nginx.service
                  —20679 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
—20680 "nginx: worker process"
—20681 "nginx: worker process"
                  —20682 "nginx: worker process
                 oct 01 09:01:44 ubuntu24 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server.
Oct 01 09:01:44 ubuntu24 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
lines 1-17/17 (END)
```

Creamos el html y hacemos curl y lo abrimos en la web



Hola Mundo desde Nginx

Servidor funcionando correctamente