

# LINUX APACHE INSTALLATION PROJECT -1

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karthik@f542ba3b5a78571:~$ sudo apt update && sudo apt upgrade
[sudo] password for karthik:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following upgrades have been deferred due to phasing:
  libpolkit-agent-1-0 libpolkit-gobject-1-0 polkitd
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
karthik@f542ba3b5a78571:~$ sudo dnf update -y
sudo: dnf: command not found
karthik@f542ba3b5a78571:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 3 not upgraded.
Need to get 2084 kB of archives.
After this operation, 8094 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libapr1t64 amd64 1.7.2-3.1ubuntu0.1 [108 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64 amd64 1.6.3-1.1ubuntu7 [91.9 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.3-1.1ubuntu7 [11.2 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-ldap amd64 1.6.3-1.1ubuntu7 [9116 B]
Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 liblua5.4-0 amd64 5.4.6-3build1 [166 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-bin amd64 2.4.58-1ubuntu8.5 [1329 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.5 [163 kB]
Selecting previously unselected package libapr1t64:amd64. amd64 apache2-utils amd64 2.4.58-1ubuntu8.5 [97.1 kB]
(Reading database ... 40810 files and directories currently installed.)

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karthik@i542ba35a758757:/
Selecting previously unselected package libapr1t64:amd64. amd64 apache2-utils amd64 2.4.58-1ubuntu8.5 [97.1 kB]
(Reading database ... 40810 files and directories currently installed.)
Preparing to unpack .../0-libapr1t64_1.7.2-3.1ubuntu0.1_amd64.deb ...
Unpacking libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Selecting previously unselected package libaprutil1t64:amd64.
Preparing to unpack .../1-libaprutil1t64_1.6.3-1.1ubuntu7_amd64.deb ...
Unpacking libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../2-libaprutil1-dbd-sqlite3_1.6.3-1.1ubuntu7_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.1ubuntu7) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../3-libaprutil1-ldap_1.6.3-1.1ubuntu7_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.6.3-1.1ubuntu7) ...
Selecting previously unselected package liblua5.4-0:amd64.
Preparing to unpack .../4-liblua5.4-0_5.4.6-3build2_amd64.deb ...
Unpacking liblua5.4-0:amd64 (5.4.6-3build2) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../5-apache2-bin_2.4.58-1ubuntu8.5_amd64.deb ...
Unpacking apache2-bin (2.4.58-1ubuntu8.5) ...
Selecting previously unselected package apache2-data.
Preparing to unpack .../6-apache2-data_2.4.58-1ubuntu8.5_all.deb ...
Unpacking apache2-data (2.4.58-1ubuntu8.5) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../7-apache2-utils_2.4.58-1ubuntu8.5_amd64.deb ...
Unpacking apache2-utils (2.4.58-1ubuntu8.5) ...
Selecting previously unselected package apache2.
Preparing to unpack .../8-apache2_2.4.58-1ubuntu8.5_amd64.deb ...
Unpacking apache2 (2.4.58-1ubuntu8.5) ...
Selecting previously unselected package ssl-cert.
Preparing to unpack .../9-ssl-cert_1.1.2ubuntu1_all.deb ...
Unpacking ssl-cert (1.1.2ubuntu1) ...
Setting up ssl-cert (1.1.2ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ssl-cert.service → /usr/lib/systemd/system/ssl-cert.service.
Setting up libapr1t64:amd64 (1.7.2-3.1ubuntu0.1) ...
Setting up liblua5.4-0:amd64 (5.4.6-3build2) ...
Setting up apache2-data (2.4.58-1ubuntu8.5) ...
Setting up libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-ldap:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.1ubuntu7) ...
Setting up apache2-utils (2.4.58-1ubuntu8.5) ...
Setting up apache2-bin (2.4.58-1ubuntu8.5) ...

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karthik@f542ba3b5a78573: /
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for man-db (2.12.0-4build2) ...
karthik@f542ba3b5a78573:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2rt all 1.1.2ubuntu1 [17.8 kB]
karthik@f542ba3b5a78573:~$
karthik@f542ba3b5a78573:~$
karthik@f542ba3b5a78573:~$ sudo mkdir /var/www/html/test_website/
karthik@f542ba3b5a78573:~$ echo '<html><head><title>Example</title></head><body><h1>GFG</h1><p>This is a test.</p></body></html>' | sudo tee /var/www/html/test_website/index.html
<html><head><title>Example</title></head><body><h1>GFG</h1><p>This is a test.</p></body></html>
karthik@f542ba3b5a78573:~$ sudo echo '<VirtualHost *:80>
>     ServerName web.testingserver.com
>     DocumentRoot /var/www/html/website
>     DirectoryIndex index.html
>
>     ErrorLog /var/log/httpd/example.com_error.log
>     CustomLog /var/log/httpd/example.com_requests.log combined
> </VirtualHost>' > /etc/httpd/conf.d/web.conf
-bash: /etc/httpd/conf.d/web.conf: No such file or directory
karthik@f542ba3b5a78573:~$ sudo chown -R apache:apache /var/www/html/test_website
/var/www/html/test_website$ sudo chmod -R 755 /var/www/html/test_website
karthik@f542ba3b5a78573:~$ ls
superfile
karthik@f542ba3b5a78573:~$ cat index.html
cat: index.html: No such file or directory
karthik@f542ba3b5a78573:~$ cd /var/www/html/
karthik@f542ba3b5a78573:/var/www/html$ ls
index.html  test_website
karthik@f542ba3b5a78573:/var/www/html$ vi index.html
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karthik@f542ba3b5a78573: /
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for man-db (2.12.0-4build2) ...
karthik@f542ba3b5a78573:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2rt all 1.1.2ubuntu1 [17.8 kB]
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karthik@f542ba3b5a78573:~$ sudo echo '<VirtualHost *:80>
>     ServerName web.testingserver.com
>     DocumentRoot /var/www/html/website
>     DirectoryIndex index.html
>
>     ErrorLog /var/log/httpd/example.com_error.log
>     CustomLog /var/log/httpd/example.com_requests.log combined
> </VirtualHost>' > /etc/httpd/conf.d/web.conf
-bash: /etc/httpd/conf.d/web.conf: No such file or directory
karthik@f542ba3b5a78573:~$ sudo chown -R apache:apache /var/www/html/test_website
/var/www/html/test_website$ sudo chmod -R 755 /var/www/html/test_website
karthik@f542ba3b5a78573:~$ ls
superfile
karthik@f542ba3b5a78573:~$ cat index.html
cat: index.html: No such file or directory
karthik@f542ba3b5a78573:~$ cd /var/www/html/
karthik@f542ba3b5a78573:/var/www/html$ ls
index.html  test_website
karthik@f542ba3b5a78573:/var/www/html$ vi index.html
```

