Apache HTTP Server Web server

CONCEPTS

Always run configtest before graceful: a syntax error then leaves the running server untouched.

Request host and port
↓ match
VirtualHost ServerName / Alias
↓ map
Directory / Location Require, Options
↓ merge
.htaccess per-directory overrides

Debian and Ubuntu call the binary and service apache2 (apache2ctl); RHEL, Fedora and source builds use httpd.

CONTROL

apachectl start
Start the server

apachectl stop
Stop, aborting open connections

apachectl graceful
Reload config without dropping requests

apachectl configtest
Check config syntax

systemctl reload apache2
Reload via systemd (Debian)

systemctl reload httpd
Reload via systemd (RHEL)

INSPECT

httpd -S
Show parsed vhosts and ports

httpd -M
List loaded modules

httpd -V
Version, MPM, config path

DEBIAN HELPERS

a2enmod *<module>*
Enable a module

DEBIAN HELPERS (cont.)

a2ensite *<site>*
Enable a vhost file

FILES AND PATHS

/etc/apache2/apache2.conf
Main config (Debian)

/etc/httpd/conf/httpd.conf
Main config (RHEL)

/var/log/apache2/error.log
Error log (Debian)

/var/log/httpd/error_log
Error log (RHEL)

/var/www/html
Default document root

VIRTUAL HOSTS

*<VirtualHost *:80>*
Open a vhost for a port

ServerName *<host>*
Main hostname of the vhost

DocumentRoot *<dir>*
Directory served for the vhost

Listen *<port>*
Bind a port

ACCESS AND .HTACCESS

<Directory <dir>>
Settings for a filesystem path

Require all granted
Allow everyone

Require all denied
Deny everyone

Require ip *<cidr>*
Allow an address range

Options -Indexes
No directory listings

AllowOverride All
Honor .htaccess in this directory