

# UNIX/Linux - Apache WWW server administration

Course code: UNIXAPACHE

The course is intended for administrators of Apache WWW servers on the UNIX platform, who will learn to install, manage, optimize and secure the Apache server, including advanced functions such as dynamic server-side page generation, SSL/TLS, load-balancing and other Apache server functions.

Affiliate	Duration	Course price	ITB
Praha	3	13 500 Kč	0
Brno	3	13 500 Kč	0
Bratislava	3	600 €	0

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
29.06.2026	3	600 €	Online	CZ/SK	Online
29.06.2026	3	13 500 Kč	Online	CZ/SK	Online
☀ 27.07.2026	3	13 500 Kč	Presence	CZ/SK	GOPAS Praha
02.11.2026	3	13 500 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

WWW service technology, HTTP protocol

- History of the WWW
- Main features and principles of WWW (URL, HTTP protocol, HTML language)
- Overview of the HTTP protocol series and their properties (HTTP/0.9, HTTP/1.0, HTTP/1.1, HTTP/2)
- Principle of virtual HTTP servers (based on IP addresses, based on domain names)

Apache server

- Basic information about the Apache server, literature, electronic sources of information
- Apache's modular concept (MPM, modules), description of core modules' functions
- Alternatives to Apache Lighthttpd, NGINX, etc.
- Installing Apache, inspecting the installed components
- Server control, basic tests

Apache server configuration

- Apache settings from the point of view of the process system in LINUX - automatic management of descendants, etc.
- Basic Apache server settings - WWW document tree, port configuration, etc.
- HTTP connection error handling
- Advanced server settings - automatic creation of directory contents, inserts inserted by the server, access authentication, restricting access to data provided by the server, language settings and MIME.
- Virtual servers
- Server logging and log processing

Systems for dynamic pages

- CGI scripts, FastCGI, WSGI, etc.
- principles of SSI
- PHP scripting language, deployment options in the Apache server
- PHP interpreter like Apache module, PHP FPM

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- PHP configuration, PHP security

## SSL/TLS

- Server-Side SSL Basics and Mechanisms
- The mod\_ssl module and its configuration

## Stress testing and performance tuning

- Stress tests using the ab tool, etc.
- Optimizing the server for performance

## Security

- Basic information about Apache security
- Access rights, .htaccess files, etc.

## Load balancing

- Load shedding options and technologies
- Built-in support in Apache
- Separate generation of static and dynamic content

## Web cluster

- Shared storage
- Network infrastructure
- PHP sessions in the cluster

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