



# Nginx Module Extension

By Usama Dar

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**Nginx Module Extension** By Usama Dar

## In Detail

Companies can solve significant scaling issues thanks to switching their web platforms to Nginx. A popular web server for building web infrastructure, Nginx transparently and effectively enables the growth of the largest sites on the Internet today, on top of being free and open source.

This book is a practical reference providing you with everything you need to know about Nginx module extensions. You will learn how to write powerful and flexible configuration files and your own modules, as well as gaining knowledge about Nginx's modular architecture, available modules, and their intricate details.

Nginx Module Extension starts by teaching you to compile the Nginx source on multiple platforms. Then you will learn the synopsis, directives, and practical examples of the core, optional, and third party Nginx modules before familiarizing yourself with Nginx internals, enabling you to write custom modules.

You will learn about the flexibility of the Nginx configuration and how to enable and disable various options while building from the source. You will learn to customize the Main and Events module to fine-tune the web server performance, and you will also learn about standard and optional HTTP modules like GeoIP, Gzip, Access Control, and using SSL, along with an exploration of PostgreSQL, MySQL, and Memcached modules. Finally you will learn internals like module chaining and will see sample code and a line-by-line walkthrough demonstrating how to write your own module.

## Approach

This book is a step-by-step, example-oriented tutorial that will teach you to implement Nginx modules, as well as how to extend Nginx with core and third party modules.

## Who this book is for

Nginx Module Extension is intended for advanced users, system administrators, and developers of Nginx modules. You need to have prior experience with using Nginx as a web server and basic Nginx configuration changes. You also need basic understanding of GNU tools like configure and make, in order to be able to compile the source code. Proficiency in C programming and advanced operating system knowledge on Linux kernel, for example, would also come in handy.

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### Editorial Review

About the Author

#### Usama Dar

Usama Dar has over 13 years' experience working with software systems. During this period, he has not only worked with large companies such as Nortel Networks, Ericsson, and Huawei, but has also been involved with successful startups such as EnterpriseDB. He has worked with systems with mission-critical requirements of scalability and high availability. He writes actively on this website: [www.usamadar.com](http://www.usamadar.com). These days, Usama works at the Huawei Research Centre in Munich, where he spends most of his time researching highly scalable, high-performing infrastructure software (such as operating systems), databases, and web and application servers.

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