

KUSANAGI is an ultrafast virtual server for WordPress with

an execution time of **3** milliseconds the ability to process **1000** requests in a second!

超高速WordPress仮想マシン
KUSANAGI
Powered by Prime Strategy

What is KUSANAGI?

A virtual machine and its image developed and supported by Prime Strategy Group, that was built to execute WordPress at high speeds.

KUSANAGI is an ultrafast WordPress execution environment. It processes commands in 3 milliseconds and can handle 1000 user requests per second without page caching.¹ You can use KUSANAGI with a "KUSANAGI fully managed service" (by Prime Strategy Group,) or you can use one of the major public cloud services.

KUSANAGI framework

- WordPress latest version (KUSANAGI dedicated plug-in included)
- CentOS 7.5
- Nginx 1.12.2
- Apache 2.4
- HHVM 3.19.2
- PHP7.2.x (php-fpm, Cli)
- PHP5.6.x (php-fpm, Cli)
- MariaDB-server 10.1.34
- Ruby 2.4
- Ruby on Rails latest version
- PostgreSQL9.6.9
- pgpool-II 3.7.2

* PHP 7.2 and above requires WordPress version 4.4 or newer and compatible plugins.

¹ At maximum performance. Processing speed will vary depending on instance size and website content (such as features and amount of data).

² Simulation conducted using a quad-core (4vCPU) virtual machine; therefore, WordPress run time was 3.856 milliseconds (0.964 milliseconds multiplied by 4).

KUSANAGI is available for free on most major public cloud services.

As of August 2018, the current and planned releases of the public cloud version of KUSANAGI are as follows:

Public Cloud Services

KUSANAGI for Microsoft Azure	KUSANAGI for GCP
KUSANAGI for IBM Cloud	KUSANAGI on Alibaba Cloud
KUSANAGI for AWS	
KUSANAGI for ConoHa	
KUSANAGI for Z.com	

Hybrid

KUSANAGI for VMware	KUSANAGI for Vagrant
KUSANAGI Runs on Docker	

Apache Bench performance trials

In the performance measurement results produced by Prime Strategy Co., Ltd., the following processing capability was achieved. (ab -n 10000 -c 300 <https://en.kusanagi.tokyo/>)

Server Software: nginx	Complete requests: 10000
Server Hostname: kusanagi.tokyo	Failed requests: 0
Server Port: 80	Write errors: 0
	Total transferred: 71680000 bytes
Document Path: /	HTML transferred: 69520000 bytes
Document Length: 6952 bytes	Requests per second: 1036.97 [#/sec] (mean)
	Time per request: 289.305 [ms] (mean)
Concurrency Level: 300	Time per request: 0.964 [ms] (mean, across all concurrent requests) ²
Time taken for tests: 9.643 seconds	Transfer rate: 7258.78 [Kbytes/sec] received

The test environment described above is published on <https://en.kusanagi.tokyo/>

KUSANAGI dedicated plug-in

Page caching

Page caching is a feature that temporarily saves and recycles HTML display data to improve the performance of WordPress.

Performance display

The execution speed of WordPress and the number of queries appear on the control bar. The background color will change depending on the number.

Device switching

Device switching is a feature to change and optimize the WordPress theme for display on mobile devices such as smartphones.

Translation accelerator

This feature accelerates the loading speed of translations to reduce the execution time required to display the page.

WooCommerce support for e-commerce

According to the options you choose at configuration, plugins and themes for WooCommerce can automatically be installed.



<https://www.prime-strategy.co.id/>

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Make your business more efficient with KUSANAGI

Ultrafast WordPress Virtual Machine

KUSANAGI

Powered by Prime Strategy

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KUSANAGI can migrate to most of the public clouds.

KUSANAGI can migrate to most of the public clouds. An ultrafast WordPress virtual machine KUSANAGI is configured by Prime Strategy Group. We will boost your WordPress server speed by 10x. Please experience this lightning speed for yourself.

Prime Strategy Group.
PT. Prime Strategy Indonesia
<https://www.prime-strategy.co.id/>

KUSANAGI Features

Available in 26 countries and 215 regions

KUSANAGI greatly increases the speed of various environments, from WordPress and other CMS platforms to the PHP and MySQL-based LAMP stack.

WordPress is slow and heavy

Ultra-fast WordPress environment

The ultra-fast WordPress virtual machine KUSANAGI will boost your WordPress server speed by 10x. Experience its lightning speed for yourself!

Making WordPress secure

High-security WordPress site

Implementing Always-On SSL while maintaining site performance requires the latest web server technology. From Let's Encrypt to HTTP/2, KUSANAGI environment is always up-to-date.

Making WordPress even more SEO friendly

Effective solutions for the latest SEO

Speed tuning and Always-On SSL are important factors for current SEO. KUSANAGI makes WordPress' already effective SEO even stronger.

Increased PV and PV per visit, and higher profitability

KUSANAGI has increased websites' PV by approximately 40%. Media sites experience more profitability, and corporate sites enjoy better SEO.

Protecting the company image

Addressing vulnerabilities is labor-intensive. KUSANAGI makes it possible to update from the application repository, keeping your environment up-to-date and protecting your data.

Improved marketing efficiency

User experience is part of Google's vision for SEO, and from speed tuning to Always-On SSL, KUSANAGI is a one-stop SEO solution. This means your marketing team can put their focus back on content.

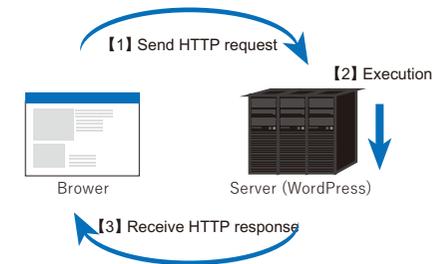


Why is it necessary to speed up WordPress?

Why is WordPress slow?

The WordPress CMS is built with PHP and MySQL, which means it tends to have poorer performance than static HTML-only websites. Also, the current trend in the CPU development roadmap favors core count over clock speed, so it's hard to predict processing speed increases coming from hardware development.

Loading a WordPress webpage



For owned media and websites providing services, boosting speed is essential for getting page views and search engine optimization.

The four main reasons for speeding up WordPress are:

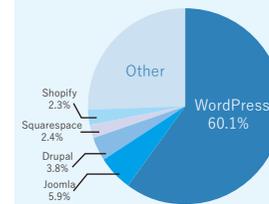
- (1) Not missing out on opportunities to acquire PV
- (2) Improved user experience
- (3) Search engine optimization
- (4) Website reliability and stability

10-15x the performance of the standard LAMP environment

WordPress execution speed comparison



WordPress is the most-used CMS software in the world



According to W3Tech's survey, WordPress is used by 31.7% of websites worldwide, and 60.1% of websites using CMS software. Its high development productivity, web standard-conscious source code, the great

* 2018.8

KUSANAGI's security measures

KUSANAGI file permissions

- NGINX, Apache and FastCGI — httpd user
- DocumentRoot and below — kusanagi user privileges
- WordPress theme, plugin file not writable by httpd user

Always the latest middleware

- Vulnerabilities addressed quickly
- Newest RPM package available from our package repository

Network Security

- Comes standard with WAF for NGINX and Apache
- TLS 1.1 disabled

HTTPS

- KUSANAGI uses HTTPS, HTTP/2 by default
- SSL certificates can be obtained via Let's Encrypt

Automated WordPress updates (including theme and plugins)

- A KUSANAGI plugin enables automation of WordPress updates — including the theme, plugins and major core updates.
- Automatic updates can be scheduled for a specific day and time