

# Stack Builder Report



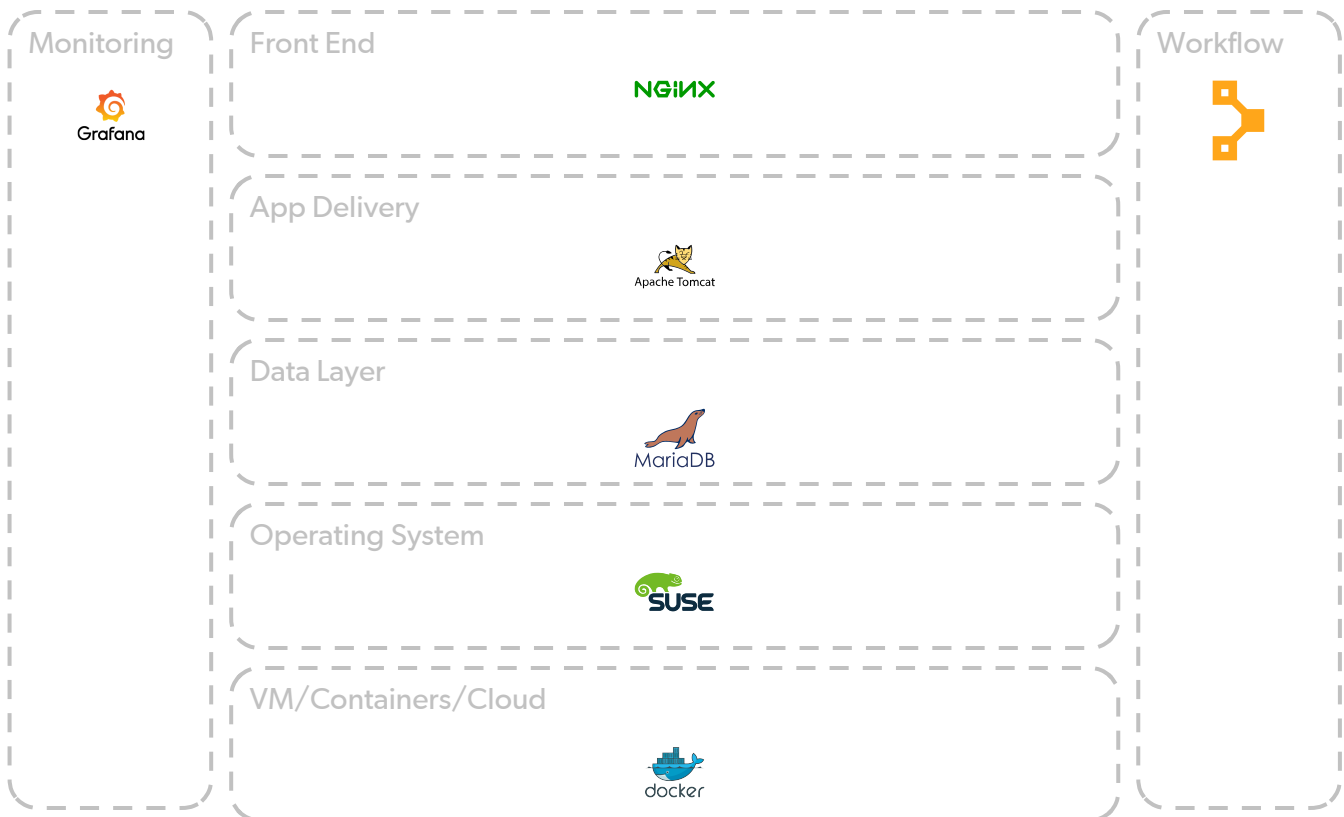
Thank you for using our Open Source Stack Builder. This custom report provides analysis on the packages you selected, and considerations for integration, development, and support. We hope that this report gives you valuable insight into the free, open source packages you are considering for your stack.

To get information on additional packages, create a new stack using the Stack Builder, and we'll send you a new report detailing those packages. If you have questions regarding any of the packages you selected, or need guidance on how to make your stack a reality, [our team is ready to help.](#)

## About OpenLogic

OpenLogic supports hundreds of open source packages, and provides dependable, high-ROI support and services to some of the biggest businesses in the world. See how our team of experienced Enterprise Architects can help you to design, deploy, and maintain your open source stack by speaking with an open source expert today.

**TALK TO AN EXPERT**



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## MONITORING



Grafana transforms large amounts of data into simple and beautiful dashboards. It can seamlessly integrate with multiple backend data stores with minimal effort.

We almost always implement Prometheus with Grafana because Prometheus is the best-in-class, time-series database for aggregating enterprise metric data.

Using Prometheus and Grafana together for monitoring is important to consider because they:

- Are free open source, so you do not have to pay for a license.
- Work together seamlessly.
- Are both sponsored by the Linux Foundation and their communities often collaborate on joint solutions.
- Are adopted widely across global industries — independently and together.
- Provide time-series monitoring and insights about machines, highly dynamic service-oriented architectures, and microservice architectures.
- Support multi-dimensional data collection, querying, and visualizations.

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## FRONT END



Nginx is a lightweight webserver that can be used standalone or as a sidecar proxy for mesh environments. While not as feature-rich as its counterpart, Apache Web Server, Nginx is very fast and has a very small footprint, making it ideal for service communication and API layers.

Businesses choose to use Nginx when:

- They need complete webserver functionality in a lightweight package
- They want to embed webserver proxies into their applications

- They don't need the full suite of modules and tooling available with Apache Web Server
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## APPLICATION DELIVERY



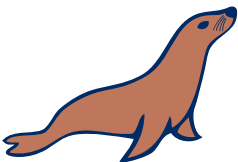
### Apache Tomcat

Apache Tomcat is a lightweight Java application server that focuses on small, standard Java Servlet applications. While not a full-fledged Java / Jakarta EE solution like Wildfly or JBoss, Tomcat is ideal for small webapps, and is even suitable for Java microservices when used alongside technologies like Spring Boot.

Businesses choose Tomcat when they:

- Need a lightweight Java web solution
  - Want to rapidly deploy Java applications to the web
  - Want something free and open source to deploy their apps on
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## DATA LAYER



### MariaDB

MariaDB is a relational, MySQL database that uses distributed columnar storage and parallel processing to facilitate rapid insights into small to massive amounts of data. It is the free, open source equivalent to MySQL, which is owned by Oracle.

A database built with MariaDB is important to consider for small-to-medium sized applications because it:

- Is an easy to deploy, widely understood multi-user database
- Is a free, open source database solution
- Allows developers to query data using familiar SQL syntax
- Is ACID-compliant with full commit, rollback, crash recovery, and row-level locking capabilities
- Provides guaranteed uptime via multi-master clustering and automatic failover with transaction replay

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## OPERATING SYSTEM

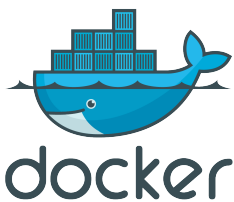


OpenSUSE Leap is the regular release edition of the OpenSUSE Linux distribution. OpenSUSE is generally considered to be stable for production use, and those familiar with the SLES / SUSE Linux / Slackware product ecosystem will feel comfortable in this environment. OpenSUSE focuses on deployment simplicity, a familiar and lightweight toolchain, and cloud-readiness.

The OpenSUSE community also offers a rolling-release Linux in the form of Tumbleweed. Just as in CentOS Stream, bug fixes and security patches will come earlier than in the comparative OpenSUSE Leap regular-release distribution.

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## VM



Docker provides a tremendous amount of functionality, without adding the complexity of an orchestration layer. When combined with a proper Docker repository, Docker containers often meet the needs of companies that will not scale beyond a single data center.

A platform built with Docker is important to consider because it:

- Is free, open source software, that does not require you to pay for a license.
  - Is a proven Linux container platform, with significant adoption across global industries.
  - Simplifies container management with tools for easy scripting and automation.
  - Includes mechanisms for versioning and component reuse. Simplifies container sharing via a private repository or the public Docker Hub.
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## WORKFLOW



Puppet allows enterprises to create declarative automation to enforce their infrastructure's configuration. Puppet configuration is stored in a "manifest," which is fed to remote agents running on the hosts that are being managed. These agents execute commands against the operating system and application stack as directed from the main Puppet command-and-control servers.

Businesses choose Puppet when:

- Their deployment automation allows for easy installation of a host-native agent for remote management
- They want to manage thousands of hosts at scale
- They want free open source software

## Putting It All Together

The Enterprise Architects at OpenLogic have years of experience in building, managing, and supporting cutting edge open source solutions, and can help make your planned open source stack a reality.

With support for over 400 open source packages, and a full range of open source support and services options, OpenLogic can support your open source journey from integration to EOL.

Speak with an expert today to learn more about how we can help build, refine, or support your open source stack.

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