

NetGain APM Datasheet

NetGain APM (Application Performance Management) provides organizations with insights into how their applications are performing, allowing them to better manage their employee and customer end-user experience and create better digital experiences. By identifying bottlenecks and thus the areas with resource constraints, APM enables organizations to allocate the appropriate type and amount of computing resources to their enterprise applications to optimize and improve on their application performance and reliability.

This allows organizations to maintain SLAs while enjoying a reduced total cost of ownership (TCO) through a measured and targeted use of computing resources.



How it Works

NetGain APM provides real-time monitoring of an organization's key business applications. It deploys APM agents in application servers to collect and send performance data to the NetGain APM server for processing, which then displays the application performance in an easy to understand format on a Graphical User Interface (GUI).

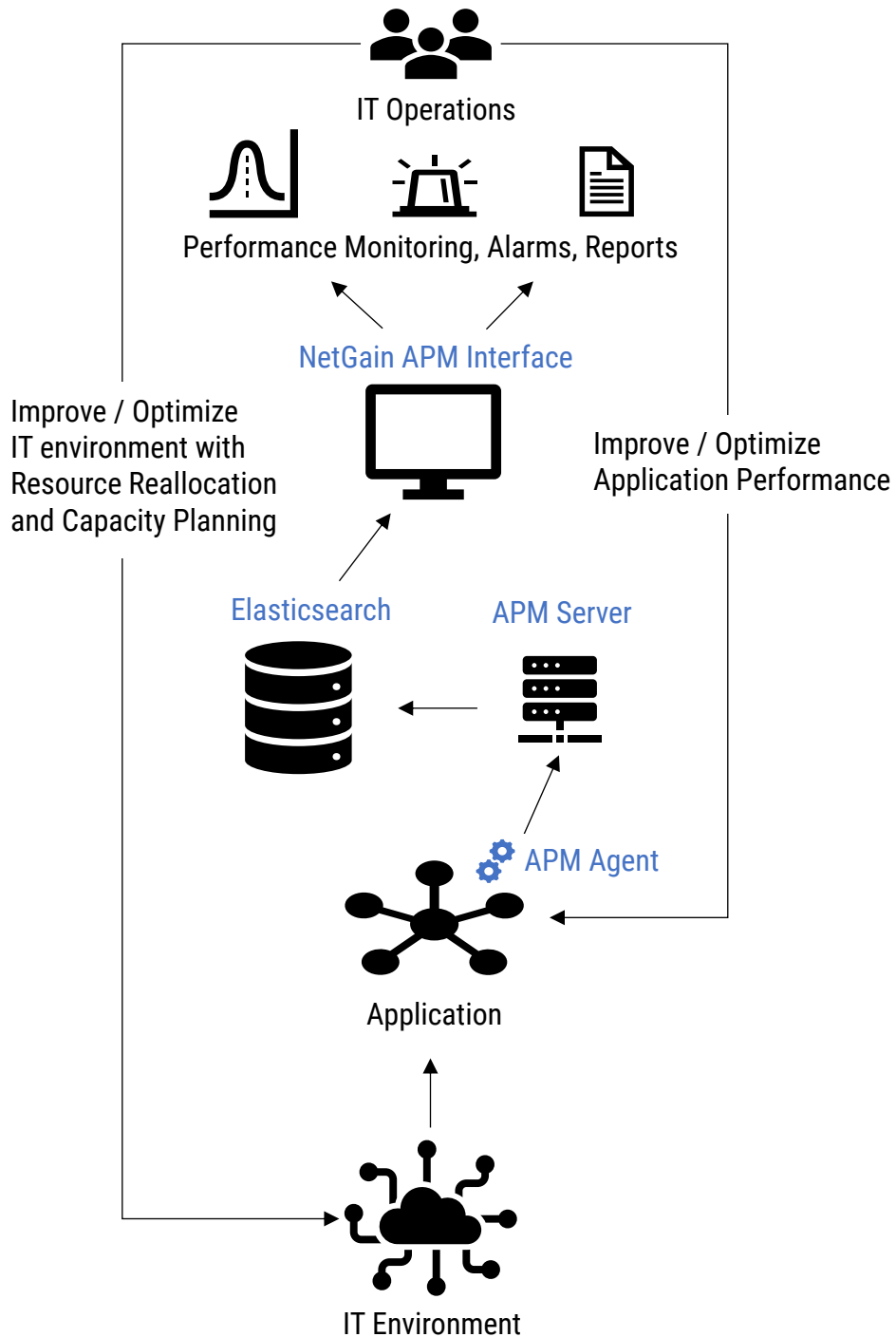
NetGain APM is built primarily around the Elastic APM. There are 4 main components:

- **APM Agent** is a small piece of code that collects the performance data of applications in the application server. It is installed like any other library and written in the same language used by the application. Currently supported languages include node.js, .Net, python, ruby and JAVA. The APM agent is started with a startup parameter, and sends collected application performance data to the APM server.
- **APM Server** is an application that processes application performance data sent by the APM agents before storing such data in an Elasticsearch database.
- **Elasticsearch** is a highly scalable open source database and full-text search and analysis engine. It stores the application performance data and APM performance metrics, and provides for near real time search and analysis of large amounts of data.
- **NetGain APM Interface** is the application users work with to see and manage the NetGain APM solution. It interacts with Elasticsearch to present APM metrics and the status of running applications in visual dashboards. Users can also create and generate reports, as well as set performance thresholds whereby alarms and notifications would be triggered should these be crossed.



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Supported Applications

NetGain APM supports a wide variety of applications, including webpages and Mobile Apps, that are written in the following programming languages:

- JAVA
- .Net
- Node.js
- Go
- Python
- PHP
- Ruby

Data Captured

NetGain APM monitors the real user experience by capturing the request duration for an application as well as the duration taken by the different transactions within an application. Together with the duration, NetGain captures the following information associated with the application:

- IP address
- Operating System
- Browser used
- URL
- Occurrence time
- HTTP response code
- HTTP request (Header, Content, etc)
- Errors

Reports

NetGain APM provides the following reports for users to better analyse the full end-to-end performance of their applications:

- Transaction Reports
- Access analysis according to location, OS, browser, etc...
- Access trend analysis
- Page access analysis



Server / VM / Appliance Requirements

NetGain APM can be deployed in a single server or distributed over multiple VMs, appliances or Cloud instances. Its highly flexible and scalable architecture lets it fit easily into any existing environment while having the capacity to meet any future growth and expansion.

The requirements for running and operating NetGain APM will depend on the number of applications and the size of the network it is deployed in. The following gives an indication of the NetGain APM requirements for a given small IT environment. Please contact NetGain on the NetGain APM requirements for your IT environment.

Managed Application environment: 5 applications, 10,000 accesses per app per day.	
Data Retention period: 6 months	
Hard disk	1TB
CPU	Quad Core
RAM	16GB
Operating System	CentOS
Browsers Supported	Firefox, Google Chrome, Safari, Microsoft Edge.





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About NetGain Systems

Founded in 2002, NetGain Systems is a pioneer in the IT monitoring business and has established local teams throughout the Asia Pacific Region, including Australia, China and Singapore.

Regardless of location, type, size, or complexity, our solutions give customers the power to monitor their IT services, infrastructure, applications and devices with ease, all from a single management dashboard, so you can maximize uptime and achieve IT excellence.

By understanding that every organization's IT environment is different, NetGain's dynamic solutions are designed to be uniquely adaptable, fitting the unique demands of your operating environment and evolving with your growing organization.

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