



YouTestMe

Log Monitoring and Event Logging

File name	YTM Log Monitoring and Event Logging
Author	YouTestMe
Confidentiality	Public
Last save date	Thursday, October-20-2022 at 11:37:00 PM

Table of Contents

1	Introduction	2
2	Monitoring and Event Logging Tools.....	3
2.1	Zabbix.....	3
2.2	Graylog	4
2.3	Site24x7	5
2.4	Wazuh	6

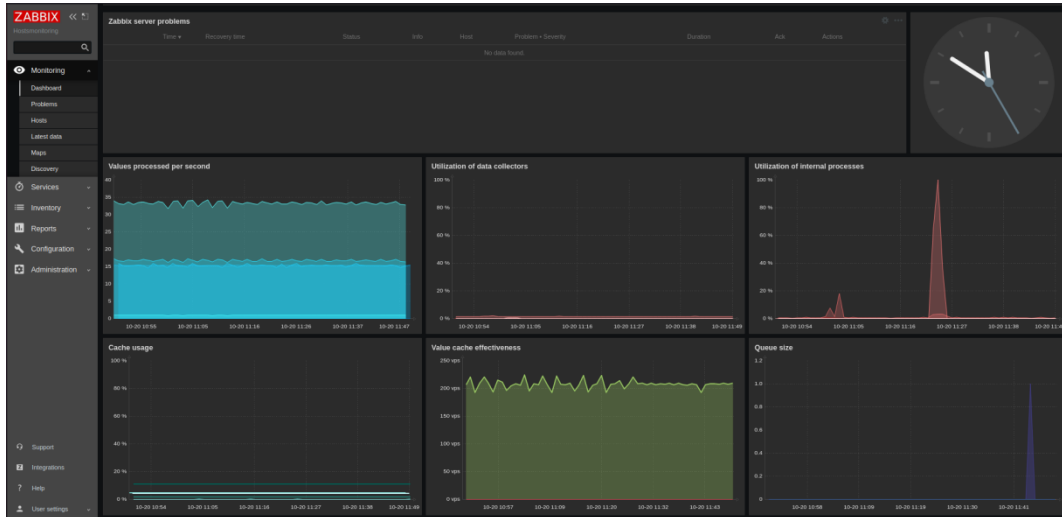
1 Introduction

Effective event logging ensures network and application health, performance, and security. This document represents the types of events logged by tools used in YouTestMe.

2 Monitoring and Event Logging Tools

2.1 Zabbix

Zabbix is an open-source software tool to monitor IT infrastructure such as networks, servers, virtual machines, and cloud services.



Zabbix monitors many system resources, the current performance of servers, network load, and server availability. It also monitors resources for the server applications such as Apache Tomcat, Apache Web server, PostgreSQL, and many others.

Some of the most outstanding features are problem notifications and event reports.

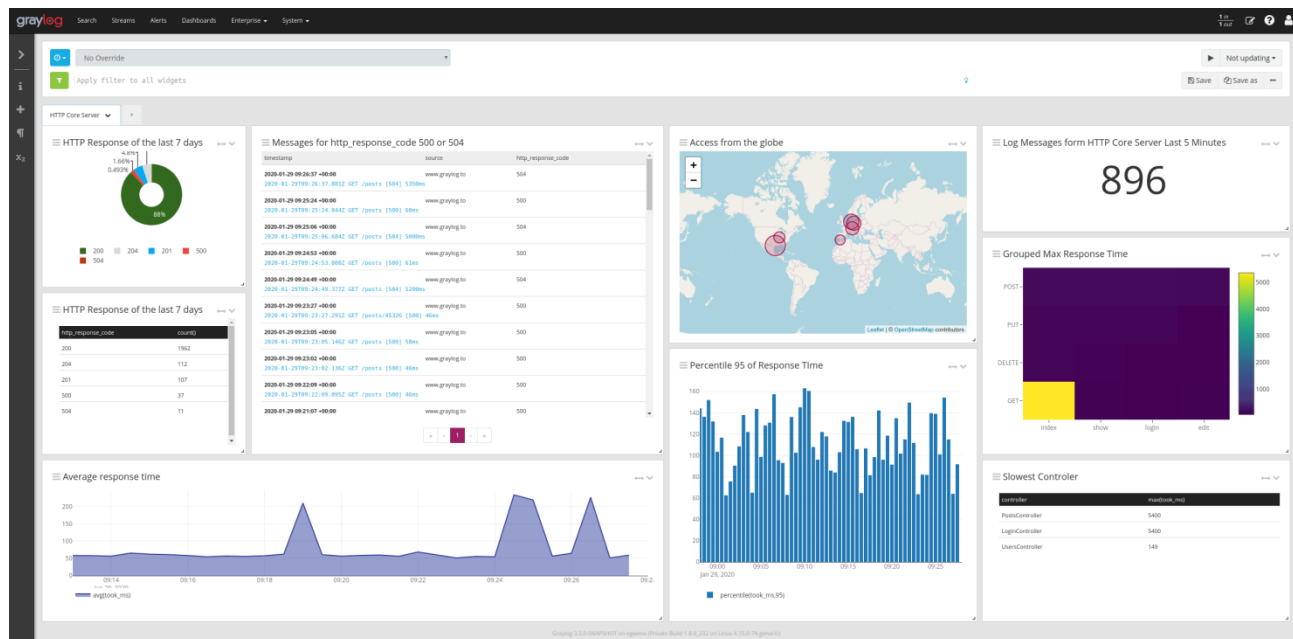
ZABBIX << Hostsmonitoring			
<div>Monitoring</div> <div>Dashboard</div> <div>Problems</div> <div>Hosts</div> <div>Latest data</div> <div>Maps</div> <div>Discovery</div> <div>Services</div> <div>Inventory</div> <div>Reports</div> <div>Configuration</div> <div>Administration</div>	Event details		
	Trigger details		Actions
	Host	Sales2	Step Time
	Trigger	High memory utilization	2022-10-07 15:32:10
	Severity	Average	
	Problem expression	min(/Sales2/vm.memory.utilization,5m)>80	
	Recovery expression		
	Event generation	Normal	2022-10-07 15:32:10
	Allow manual close	No	
	Enabled	Yes	
	Event details		
	Event	High memory utilization (>80% for 5m)	2022-10-07 15:32:04
	Operational data	96.8574 %	
	Severity	Average	1 2022-09-30 02:11:30
	Time	2022-09-30 02:11:25	
	Acknowledged	No	
	Resolved by	Trigger	
	Tags	class: os component: memory scope: capacity ***	
	Description	The system is running out of free memory.	1 2022-09-30 02:11:30

2.2 Graylog

Graylog is defined in terms of a log management platform for collecting, indexing, and analyzing both structured and unstructured data from almost any source.

Centralized logging provides essential benefits:

- Placing all the records in a single location simplifies log analysis and correlation tasks.
- Providing a secure storage area for log data



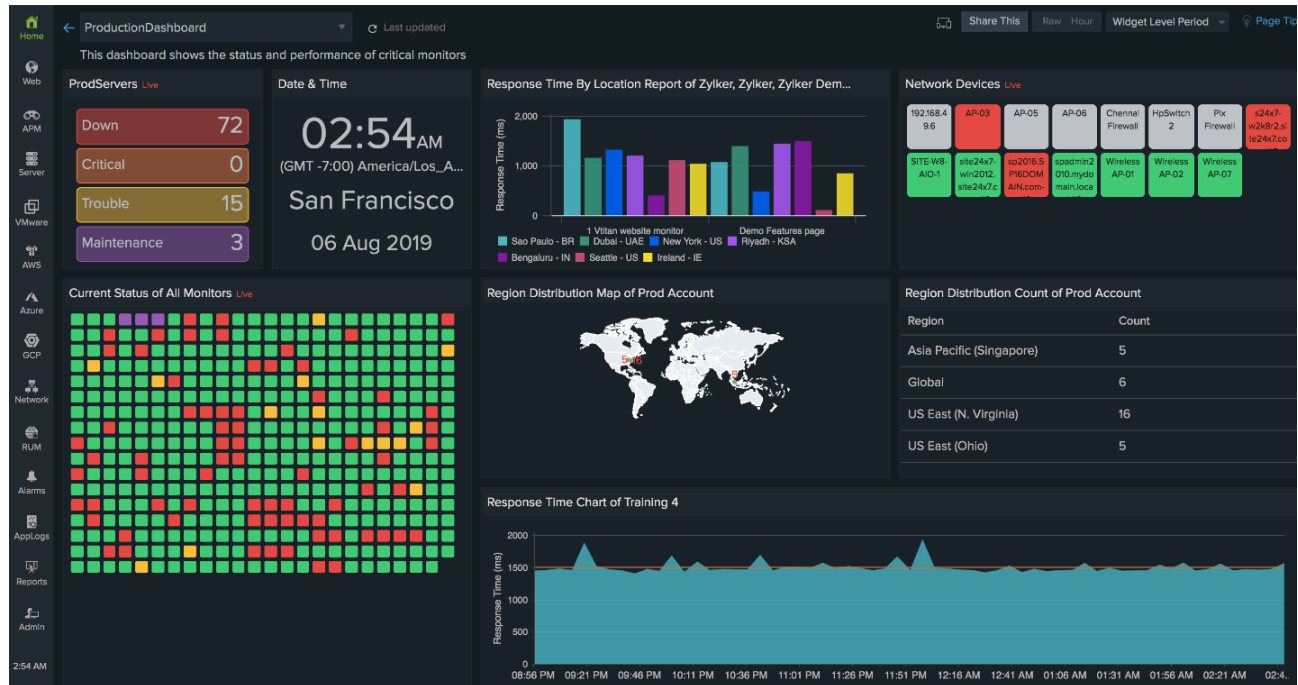
Graylog allows aggregating data from multiple sources, initiating a search across multiple parameters, and analyzing, visualizing, and reporting on the data. Alerts could also be triggered when certain thresholds are exceeded, or suspicious patterns emerge.

Graylog alerts are periodical searches that can trigger notifications when a defined condition is satisfied.

Alerts & Events				
Define Events through different conditions. Add Notifications to Events that require your attention to create Alerts.				
Graylog's new Alerting system let you define more flexible and powerful rules. Learn more in the documentation				
Find Events <input type="text"/> <input type="button" value="Q"/> <input type="button" value="R"/>				
Alerts Events Both				
Show 25				
Description	Key	Type	Event Definition	Timestamp
syslog_server_errors		Alert	syslog_server_errors	2019-10-09 05:19:34
syslog_server_errors		Alert	syslog_server_errors	2019-10-09 05:18:43
syslog_server_errors		Alert	syslog_server_errors	2019-10-09 05:18:43
syslog_server_errors		Alert	syslog_server_errors	2019-10-09 05:18:43
syslog_server_errors		Alert	syslog_server_errors	2019-10-09 05:18:38
syslog_server_errors		Alert	syslog_server_errors	2019-10-09 05:18:38

2.3 Site24x7

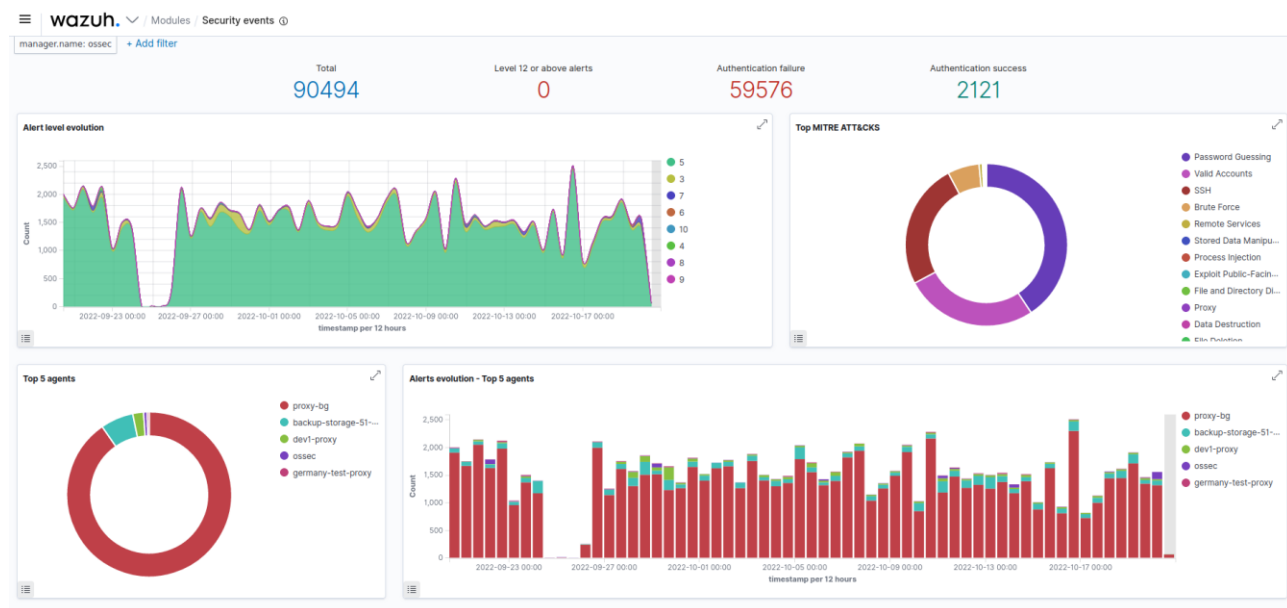
Site24x7 brings together metrics, traces, and logs monitoring under one console for different layers of cloud architecture. Monitor the uptime and performance of websites, online applications, and servers.



Site24x7 is mostly used to detect downtime and latency on the applications.

2.4 Wazuh

Wazuh is a free, open-source, enterprise-ready security monitoring solution for threat detection, integrity monitoring, incident response, and compliance.



Wazuh detects attack attempts by analyzing system logs and matching them with known patterns. Detected attacks with high severity levels are reported immediately via email.

All detected attempts are later listed in generated reports with suggested solutions and vulnerabilities found in the system.