WOMBATOAM 3.0.0 IMPROVEMENTS OVER 2.0.0

+ Extensive dashboard redesign with a new, more intuitive user interface using GridStack.
+ WombatOAM automatically generates frontpages for RabbitMQ, Phoenix, MongooseIM, Riak, Erlang, and Elixir with graphs of the most important metrics related to each application.
+ From now the number of listed notifications are configurable and set to 40 by default.
+ Now WombatOAM can run on Erlang / OTP 20.
+ WombatOAM supports Phoenix Web Framework metrics, such as average response time, request count, errors, etc.
+ WombatOAM logs query runtimes and other metrics from Ecto and collects logs from Elixir’s Logger.
+ A Slack integration was created that sends messages about raised and cleared alarms. The format of the text and fields are configurable in the wombat.config file.
+ WombatOAM provides 11 metrics about the performance of SumoDB and a service that displays the current data for a particular model in a table view.
+ Improved Mnesia netsplit service to detect and fix partitions when some nodes are not reachable.
+ Tags introduced to WombatOAM’s alarms, allowing users to define an alarm’s target; yourself, a group, or someone else based on specific, definable conditions.

PERFORMANCE

+ WombatOAM orchestration and monitoring has been tested on a cluster of 10,000 Erlang VMs, and is linearly scalable beyond that
+ WombatOAM is non intrusive: the overhead of monitoring is less than 1.5%
+ Monitoring has no effect on the deployment procedure

ORCHESTRATION

With WombatOAM orchestration, you can deploy Erlang nodes in heterogeneous clouds or on specified machines, scaling to tens of thousands of nodes with no single point of failure. WombatOAM can use cloud providers (like Amazon EC2, HP Cloud and Rackspace) as well as physical machines.
# WOMBATOAM 3.0.0 MAIN FEATURES

## NODES
- Auto-discovery of your node topology
- Visualise the node topology and inspect node-specific information, even on machines with restricted access

## WEB DASHBOARD
- An interactive web dashboard that provides all of the information in one place
- Application-specific front pages based on the product running on the managed node
- Live gauges on the front page

## METRICS
- Automatic collection of more than a hundred built-in metrics from the Erlang runtime system
- Metrics from plugin modules of other supported OTP applications
- Seamless collection of metrics from Folsom and Exometer
- Historic and live metrics
- Create Docker images containing WombatOAM

## INTEGRATIONS
- A REST interface to support automation and integration with your existing tool chain and scripts
- Built-in application-specific plugins for many standard and popular open source OTP applications
- Seamless integration with existing OAM infrastructure. Integration plugins with Slack, AppDynamics, Logstash, Nagios, Graylog, Grafana, Cacti, Splunk, Graphite, PagerDuty, and Zabbix

## NOTIFICATIONS & ALARMS
- Anomaly detection and early warnings, in the form of alarms and notifications
- Send notifications and alarms to specific team members

## DEPLOYMENT
- Deploy Erlang nodes in the cloud or on specified machines

---

**INTEGRATIONS**
- Slack
- AppDynamics
- Graphite
- Logstash
- Nagios
- Graylog
- Grafana
- Cacti
- Splunk
- Graphite
- PagerDuty
- Zabbix

**SOFTWARE REQUIREMENTS**
- UNIX/Windows
- ERTS
- OpenSSL
- Libcrypto

**CLOUD**
- Amazon EC2
- HP
- Rackspace
  - Physical
ARCHITECTURE

WombatOAM is easy to install and use, with a friendly interactive web dashboard, a straightforward API, and the ability to hook into your existing OAM and SaaS tools. It makes minimal demands on your system resources.

Depending on the OTP applications you are running, it starts agent modules which enable the server to monitor alarms and notifications and collect information such as metrics and logs. Provide a node and a cookie and with its auto-discovery mechanism, WombatOAM will do the rest.

HOW DOES IT WORK?

- WombatOAM can connect to any node running on the Erlang VM, using Distributed Erlang. Your system may consist of one or more Erlang VMs (that may be running different releases), and include proprietary applications or standalone open source applications such as CouchDB, Riak, RabbitMQ, or Phoenix.
- You don’t need to install WombatOAM on any node other than the machine running WombatOAM.
- To start monitoring, just provide a node’s name and its cookie. WombatOAM will discover all existing nodes in your cluster and start monitoring them right away.
- WombatOAM starts non-intrusive agents that enable it to monitor alarms and notifications, and collect information such as metrics and logs. This agent code is loaded on the fly – you don’t have to include any proprietary WombatOAM applications in your release, and you don’t have to restart the nodes. WombatOAM will connect to your nodes seamlessly, even if they have been running for years, or are running older versions of the Erlang VM.
**WOMBAT OAM in Action: Web Dashboards**

- Frontpages are auto-populated with graphs of the most important metrics related to each application.
- The panels are configurable, movable and resizeable to allow a more personalised layout.

**Monitor live performance metrics in the dashboard**

- Monitor multiple metrics on the same graph.
- Resize sections of your dashboard to focus on what's important to you.
- View metrics as a gauge.

- WombatOAM comes pre-loaded with Dashboards for Erlang, Elixir, RabbitMQ, MongooseIM, Riak, and Phoenix.
- Configure and customise your dashboard.
WOMBATOAM IN ACTION: TOPOLOGY

+ Quickly add new and connected nodes
+ View System, Application and Module information for each node
+ Node details
+ View the status of all the nodes in your system
+ View and manage plugins for individual nodes

See node status and relationship to the cluster, family, and app visualised as a graph

Configure system applications

View system details

Manage system modules

Manage system agents

Evaluate an Erlang expression on the managed node

Run garbage collector to free up memory
WOMBATOAM IN ACTION: METRICS

+ The dashboard plots both historic and live metrics
+ View different periods, or zoom in/out on the graph
+ Configure metrics display and refresh rate
+ View details about an individual measurement
+ A range of metrics categories and views
+ Place different metrics on the same graph
+ Over 100 built-in metrics, plus those from plugins
+ Save your view as a bookmark (that you can retrieve later)
+ Search and access metrics through the list on the right-hand side.
WombatOAM in Action: Notifications

WombatOAM monitors, logs, aggregates and filters the most common events from applications using SASL or Lager. These events include:

- Node crashes
- System warnings
- Major state changes
- Error log entries

View all notifications, or per node or node family

Filter and search notifications

View notification detail
**WOMBAT OAM IN ACTION: ALARMS**

- Set up customised alarms against a given threshold
- WombatOAM comes with over 25 alarms out of the box
- Popups for new alarms and other events
- Respond to multiple alarms
- View alarm details
- Respond to or clear an alarm
- Retrieves alarms from existing alarming applications to integrate with existing monitoring infrastructure tools
HOW TO GET WOMBATOAM?

WombatOAM licenses are available as part of Erlang Solutions’ business and enterprise support offerings to manage your in-house proprietary systems.

Get a 45-day free trial of WombatOAM 3.0.0!

We also have licenses to ship WombatOAM with your products. We provide professional services to integrate WombatOAM in your existing OAM infrastructure and we also develop plugins for your proprietary applications.

GET IN TOUCH

e: info@erlang-solutions.com
w: www.erlang-solutions.com
t: + 44 (0) 20 7456 1020

OUR OFFICES

UNITED KINGDOM
Erlang Solutions
The Loom
14 Gower’s Walk
London E1 8PY

SWEDEN
Erlang Solutions AB
Saltmåtargatan 5
113 59 Stockholm

HUNGARY
Erlang Solutions Kft River
Park Center
Közraktár utca 32
1093 Budapest

POLAND
Erlang Solutions
Batorego 25
31-135 Krakow

UNITED STATES
156, 2nd street
CA 94105
San Francisco