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SPAE - Server Monitoring

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SPAE

server monitoring



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CUSTOMER SUCCESS STORY

http://spae.shalb.com/

Server uptime is business-critical mission for us . We enhance the quality of services that we provide by using SPAF

server monitoring.



Sergiy Bobok, CTO.

Documentation

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Apendix A:

1. Firewall configuration

1. About System

SPAE monitoring system is designed for quick, customizable, many-sided internet server monitoring.

The whole setup and viewing of information carried through the web interface

SPAE based on SaaS (Software as a Service) model. That means that you don't need to install any software on your server.

SPAE implements the following functions:

- Monitoring Services 24x7 with an interval of not more than 5-verification minutes.
- Displaying graphs server load. In the graphical form is available on the use of the processor, memory, hard interfaces).
- Server security audit. Daily checks the version and configuration of the server software.
- Notification by e-mail, ICQ, SMS.

To work correctly, the system requires the server daemon(service) SNMP. In Linux, BSD, Windows systems, you'll need to install the latest version of net-snmp.

2. Registation

To begin the registration process you must click on "Register" button on the login form.



After press registration form will opened. Here you must correctly fill in all fields. Please use valid email in registration form.

Account Settings	
Type	Content
UserName(email)	demo@shalb.com
Account type:	User
First name:	Demo
Last name:	Demo
Company:	SHALB
Referrer:	SHALB
Password	••••
Re-type Password	••••
Phone:	44-2325467
Country:	Ukraine ▼
Address	Kiev
	Zip code : 03134
Register And Login	

After filling out the form, click "Register and Login". "Add Server" wizard will guide you how to add your server.

3. Interface

Launchpad

Window of each module of the system is available from the launchpad, which is located on the right of the browser window.

The buttons on launchpad is used to display next windows:



Account Settings window



Server Inventory window



Service Monitoring w indow



Performance monitoring (charts) window



The interface for viewing reports on external audit server security



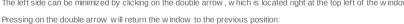
Exit SPAE

Window Elements

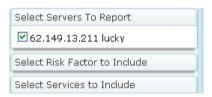
Each window can be maximized to full screen or minimized. To do this, use the appropriate icons in the upper right corner of the window

Visually, the window can be divided into two parts. The right part is intended for viewing, and left to set any parameters view, display, notification and other things.

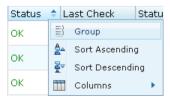
The left side can be minimized by clicking on the double arrow, which is located right at the top left of the window



By double-clicking expand and collapse items in the list on the left:



Information in the tables can be sorted by any column of the table. To do this, click on the desired column title. Also, elements in the tables may be grouped by the required field. To do this, click on the triangle in the title of the desired column and select "Group" in the dropdown menu:



4. Server Inventory





In server inventory window you can see the list of your servers that are currently added to the SPAE system. Selecting one of them, you can edit the server information in list footer.

Button "Add Server" runs the wizard that helps you to add a new server in SPAE

"Delete" button deletes the selected server.

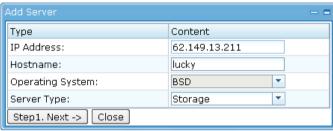
5. Add Server

Technical Requirements

The process of adding servers and SPAE usage requires the installation of the SNMP service on adding the server. To do this you must install the latest version of net-snmp.

And configure firew all to filter out spurious traffic.

Step 1



IP Address - IP address of your server. You can find it one of the following ways:

- * Look on your operating system settings (the ifconfig command in Linux, BSD, or Start -> Run-> cmd click OK and run the command ipconfig in Window s).

 * Run the ping command to one of the sites, w hich is located on your server

 - * Ask your provider

Hostname - The name of your server. Used in the interface and alerts. Allowed only Latin letters.

Operating System - select the type of operating system. It is no necessary for correct SPAE operation, but used to provide accurate information

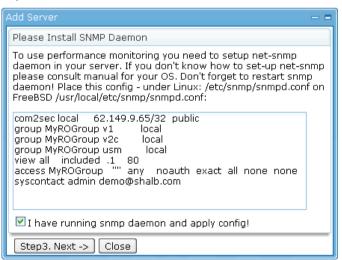
Server Type - is informative. You can choose from the list or enter your server type.

Step 2



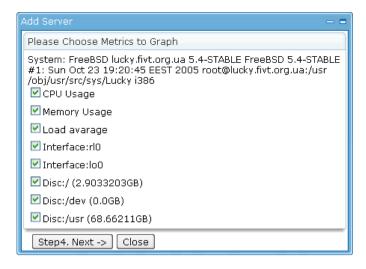
Select the required services SPAE and click "Next"

Step 3



At this step your server must have running SNMP service with the given configuration file. Once you set up and start the SNMP, you can tick and click "Next"

Step 4



Here you can configure the server metrics, which SPAE will read. Basis on this data SPAE will draw server performance graphs. Once you have selected the necessary metrics - click "Next"

Step 5



Here you can choose the services what you wish to monitor (check). After selecting, click "Next".

Step 6

Final step. You can add some note, or edit server softw are/hardw are information.

Click "Finish".

6. Service Monitorina

To open window use button from Launchpad toolbar.

Here you can configure the monitoring services, the boundary values of the warning activation, contacts and alert types. And also see the current state of services

Contacts management

To add a new contact, click "Add Notification Contact"

"Contact type" (type of contact) - currently SPAE support next contact types:

- * email notification will be sent by email. In the "Contact address" specify an email address to receive alerts and notifications.
- * sms notification will be sent via SMS. In the "Contact address" field specify the mailing address of your phone in worldwide format. For example, 380632325467.
 - CQ notification will be sent by ICQ. In the "Contact address" should indicate your ICQ UIN.

"Notification period" (Alert Period) specifies the time intervals for sending notifications and alerts

- * 24x7 twenty-four-hour 7 days a week. * 8x5 Alert from 9:00 to 17:00 on weekdays (Mon-Fri).
- * 8x7 Alert from 9:00 to 17:00 7 days a week.

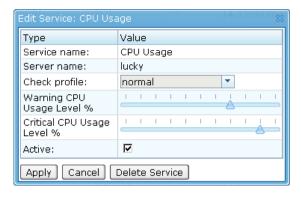
Parameter "Active" indicates whether to use this contact. With it you can quickly disable or enable notification to a pre-entered contacts. After entering the information click "Apply"

To edit or delete contact, click on the "Edit" button near contact,

Service Configuration

Below the contact management, you can see your servers and services that are currently monitored.

We have chosen the optimal parameters of monitoring services. Usually there is no need to change them. But if such a need appears, then change the settings for monitoring service can by clicking the appropriate button "Edit"



"Check profile" (type checking) specifies the level of testing service:

- * normal suitable for most services
- * soft more checks before notification. Eliminates false positive alerts, positives
 * hard less checks before notification. Notification is sent after first unsuccessful test of service availability.

Warning Level (warning threshold for warning notification), Critical Level (warning threshold for warning notification) - moving the sliders allows you to set up thresholds for service

Checkbox "Active" allows you to disable checking of this service. Useful during scheduled work.

"Delete Service" button removes the service from the monitoring system.

Press "Apply" After making changes, click "Apply"

Добавление сервиса Adding Service

... To add a new service for monitoring - click on "Add New Service". SPAE will offer services that are not monitored. Select necessary and then click

Installing net-snmp

Login, Install, configure, run!

This section describes how to install net-snmp from the command line. To do this you need to have either a local or remote access to server over SSH. For remote access via SSH, use any SSH client.

Your account on the server must have root privileges. After installing net-snmp configure the firew all.

Linux

Installing net-snmp may be different in each individual Linux distribution due to the use of different package managers. The following manual describes installation process for the most popular Linux distributions.

Gentoo Linux

Please run following commands from a user with root privileges:

emerge net-snmp

rc-update add snmpd default

Open the configuration file in your favorite text editor

vim/etc/snmp/snmpd.conf

Remove all content from it. Add only lines provided by AddServer Wizard, at the third step.

/etc/init.d/snmod start

Redhat, CentOS, Fedora

Please run following commands from a user with root privileges:

yum install net-snmp

chkconfig --add snmpd

chkconfig --level 35 snmpd on

Open the configuration file in your favorite text editor

vim /etc/snmp/snmpd.conf

Remove all content from it. Add only lines provided by AddServer Wizard, at the third step.

/etc/init.d/snmpd start

Debian, Ubuntu

Please run following commands from a user with root privileges:

apt-get install net-snmp

update-rc.d snmpd defaults

Open the configuration file in your favorite text editor

vim/etc/snmp/snmpd.conf

Remove all content from it. Add only lines provided by AddServer Wizard, at the third step.

/etc/init.d/snmpd start

FreeBSD

Please run following commands from a user with root privileges:

cd /usr/ports/net-mgmt/net-snmp && make config

you have to remove IPV6 support, then OK, and:

make install clean

Once the package compile and install, create a directory

mkdir /usr/local/etc/snmp/

Create and open the configuration file in your favorite text editor

vim /usr/local/etc/snmp/snmpd.conf

Remove all content from it. Add only lines provided by AddServer Wizard, at the third step.

Add to the end of the file /etc/rc.conf the following two lines:

snmpd_enable="YES"

snmpd_conffile="/usr/local/etc/snmp/snmpd.conf"

than start service:

/usr/local/etc/rc.d/snmpd start

Windows

Dow nload the package net-snmp from http://w w w .net-snmp.org/dow nload.html.

Install using the recommendations of the wizard, using his proposed path and guided by information from the README file.

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