

# SPAE

## server monitoring



[Home page](#) > [SPAE - Server Monitoring](#) > [Documentation](#)

[Server Monitoring Features](#)

[Prices](#)

► **Documentation**

[Partners](#)

**TRY DEMO NOW**



user: demo@shalb.com

password: shalb

<http://spae.shalb.com/>

### CUSTOMER SUCCESS STORY

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

[server monitoring](#).

**Content Delivery** network

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## Documentation

### Content:

1. [About System](#)
2. [Registration](#)
3. [Interface](#)
4. [Server Inventory](#)
5. [Add Server](#)
6. [Service Monitoring](#)
7. [Performance Monitoring](#)
8. [Server Security](#)
9. [Account Settings](#)
10. [Installing net-snmp on Server](#)

Appendix 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 drives, network 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. Registration

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

Login Page

Please Enter Your email and password

email

password

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

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 window



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:

Pressing on the double arrow will return the window to the previous position:

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

Select Servers To Report
<input checked="" type="checkbox"/> 62.149.13.211 lucky

Select Risk Factor to Include

Select Services to Include

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:

Status	Last Check	Status
OK	Group	
OK	Sort Ascending	
OK	Sort Descending	
	Columns	

### 4. Server Inventory



Called using button from the Quick Launch toolbar:

IP Address	Hostname	OS	Type	Hardware Info	Software Info	Notes
62.149.16.41	test.shalb.com	Linux	Web	2x GenuineIntel: Intel(R) Pentium(R) 4 CPU 2.80GHz Memory: 2009MB Storage: / (231.00584GB) Storage: /mnt/sdb (372.99568GB)	System: Linux htozma.de 2.6.25-pentoo-r2 #1 SNP Sun May 11 13:41:11 EEST 2008 686	Notes
Selected Server						
<div> <div>+</div> Add Server <div>✓</div> Apply Changes <div>✗</div> Delete Server </div>						

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.

"Apply" button saves the changes you entered.

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 firewall to filter out spurious traffic.

#### Step 1

Add Server

Type	Content
IP Address:	62.149.13.211
Hostname:	lucky
Operating System:	BSD
Server Type:	Storage

Step1. Next ->

Close

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 Windows).
- \* Run the ping command to one of the sites, which 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 not necessary for correct SPAE operation, but used to provide accurate information about your server.

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

#### Step 2

Add Server

What Features Do You Need?

☒ Performance Monitoring
☒ Security Monitoring

Step2. Next ->

Close

Select the required services SPAE and click "Next"

#### Step 3

Add Server

Please Install SNMP Daemon

To use performance monitoring you need to setup net-snmp daemon in your server. If you don't know how to set-up net-snmp please consult manual for your OS. Don't forget to restart snmp daemon! Place this config - under Linux: /etc/snmp/snmpd.conf on FreeBSD /usr/local/etc/snmp/snmpd.conf:

```
com2sec local 62.149.9.65/32 public
group MyROGroup v1 local
group MyROGroup v2c local
group MyROGroup usm local
view all included .1 80
access MyROGroup "" any noauth exact all none none
syscontact admin demo@shalb.com
```

☒ I have running snmp daemon and apply config!

Step3. Next ->

Close

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 software/hardware information.

Click "Finish".

## 6. Service Monitoring



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.
- \* ICQ - 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".

Type	Value
Service name:	CPU Usage
Server name:	lucky
Check profile:	normal
Warning CPU Usage Level %	<input type="range"/>
Critical CPU Usage Level %	<input type="range"/>
Active:	<input checked="" type="checkbox"/>

Apply Cancel Delete Service

"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 allow s you to set up thresholds for service.

Checkbox "Active" allow s 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 "Apply".

## 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 fire wall.

## 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/snmpd 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_conf="/usr/local/etc/snmp/snmpd.conf"
```

then start service:

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

## Windows

Download the package net-snmp from <http://www.net-snmp.org/download.html>.

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