

Installation and setup of

ANTISPAM



INSTALLATION STEPS

| Development and configuration of the project

| Development of the project

| Interface components

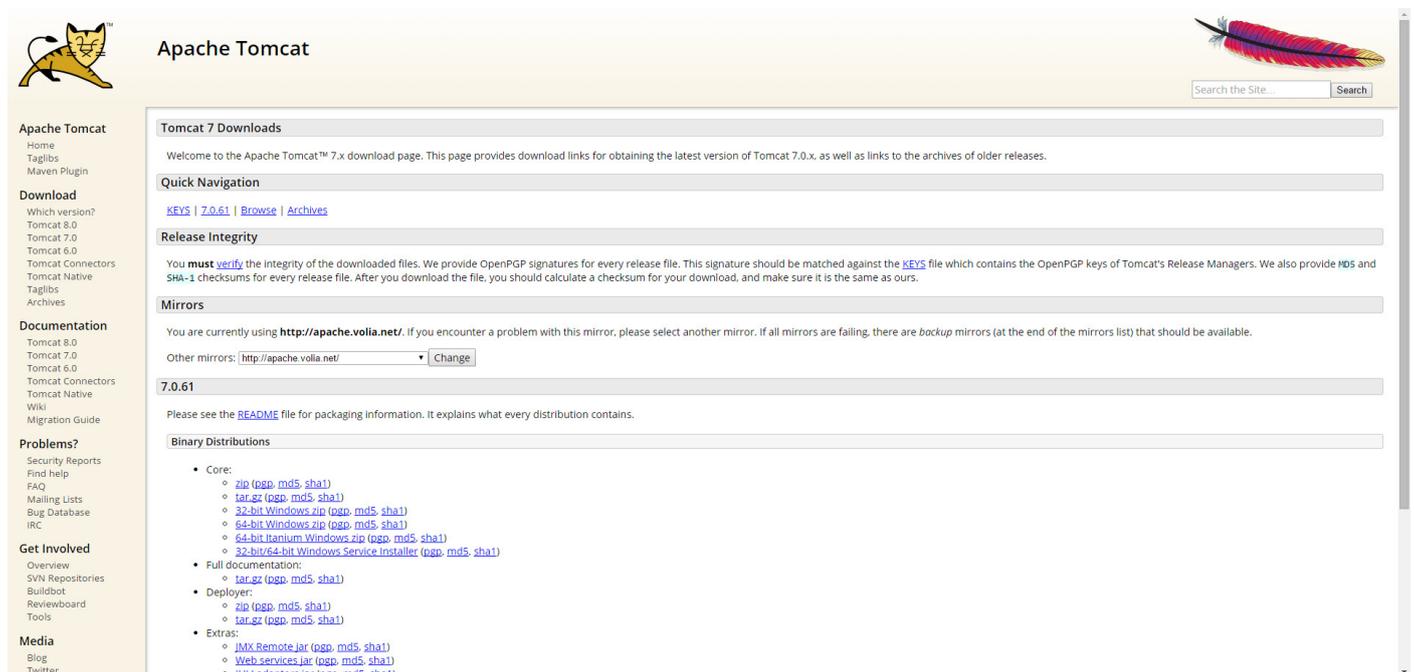
| Configuration of the project

DEVELOPMENT AND CONFIGURATION OF THE PROJECT

To develop the project it is necessary to install Apache Tomcat:
<http://tomcat.apache.org/download-70.cgi>

Installation and setup of Apache Tomcat for Linux

- We need to download the file with extension .zipili .tar.gz
- Unpack the archive to the catalogue /opt
- Create a user tomcat with the help of the command `adduser tomcat`
assign the owner and group of the unpacked catalogue `chown -R tomcat: tomcat apache-tomcat- [version] /`
in file `/opt/apache-tomcat-[version]/bin/catalina.sh` replace `$ JAVA_OPTS`na `-Xms256m -Xmx512m` in lines
`JAVA_OPTS = "$ JAVA_OPTS-Djava.util.logging.manager = org.apache.juli.ClassLoaderLog-Manager"`
`JAVA_OPTS = "$ JAVA_OPTS $ LOGGING_MANAGER"`
- copy the file `tomcatv /etc/init.d`
- run tomcat with the help of the command `/etc/init.d/tomcat start`
check whether Tomcat has started, to do it in the browser write down in the address bar a line like `[ip: 8080]`. If a homepage of Apache Tomcat has opened, Tomcat is successfully installed and run



Apache Tomcat

Tomcat 7 Downloads

Welcome to the Apache Tomcat™ 7.x download page. This page provides download links for obtaining the latest version of Tomcat 7.0.x, as well as links to the archives of older releases.

Quick Navigation

[KEYS](#) | [7.0.61](#) | [Browse](#) | [Archives](#)

Release Integrity

You **must verify** the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature should be matched against the [KEYS](#) file which contains the OpenPGP keys of Tomcat's Release Managers. We also provide [MD5](#) and [SHA-1](#) checksums for every release file. After you download the file, you should calculate a checksum for your download, and make sure it is the same as ours.

Mirrors

You are currently using <http://apache.vollia.net/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors:

7.0.61

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

- Core:
 - [zip \(pgp, md5, sha1\)](#)
 - [tar.gz \(pgp, md5, sha1\)](#)
 - [32-bit Windows zip \(pgp, md5, sha1\)](#)
 - [64-bit Windows zip \(pgp, md5, sha1\)](#)
 - [64-bit Itanium Windows zip \(pgp, md5, sha1\)](#)
 - [32-bit/64-bit Windows Service Installer \(pgp, md5, sha1\)](#)
- Full documentation:
 - [tar.gz \(pgp, md5, sha1\)](#)
- Deployer:
 - [zip \(pgp, md5, sha1\)](#)
 - [tar.gz \(pgp, md5, sha1\)](#)
- Extras:
 - [JMX RemoteJar \(pgp, md5, sha1\)](#)
 - [Web services jar \(pgp, md5, sha1\)](#)
 - [IULI adapters iar \(pgp, md5, sha1\)](#)

To stop tomcat execute command `/etc/init.d/tomcat stop`

DEVELOPMENT OF THE PROJECT

copy archive voipantispam.war in the catalogue / opt / apache-tomcat- [version] / webapps enter the web-interface of the project, to do it in the browser put in the address bar the line like [ip: 8080 / voipantispam]

INTERFACE COMPONENTS

Statistics Tab

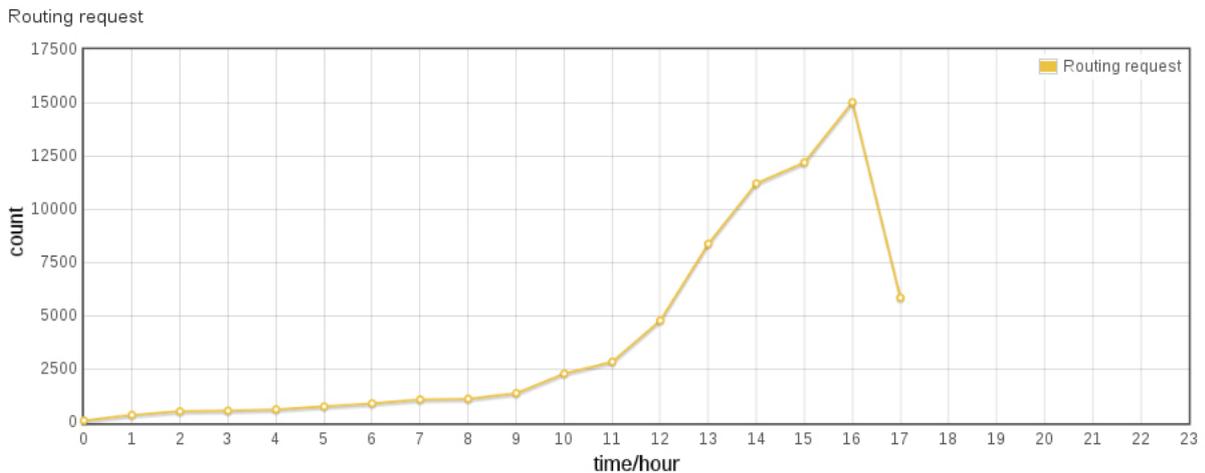


Chart Routing request displays statistics of the amount of incoming calls during 24 hours

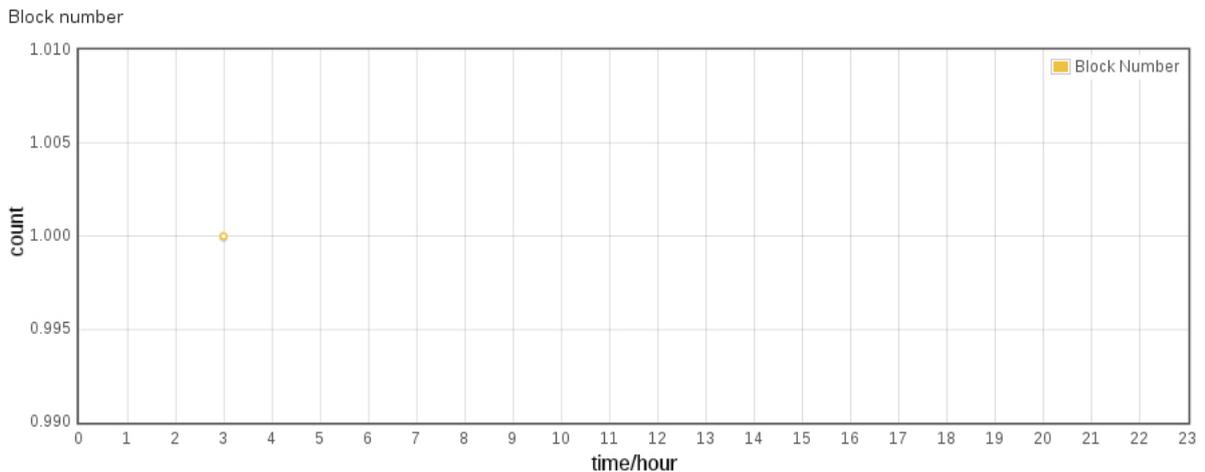


Chart Block number displays statistics of the amount of number blocking during 24 hours

White List chart is a list of white numbers

White List

Show entries

number	status
22708003063	manual
22708003064	manual
22708003066	manual

Clear Add to White List Bulk Del Selected Del Import from File Export to File

Search:

add time	routing request count
2013-10-10 17:32:07	0
2013-10-10 17:32:07	0
2013-10-10 17:32:07	0

First Previous 1 Next Last

In this chart there are the numbers that have call duration more than a given one (by default is 1 minute) for a certain period of time (by default is 10 minutes) with the given amount (by default is 2 calls) .That is, if during 10 minutes there were 2 calls with duration of more than 1 minute, then this number goes to the white list. It is possible to add numbers to the white list manually. Parameters for the filter are specified in a file that is in the resources of the projects.

Description of the fields

number - the number itself

status - status of the number in the list (displays the filter parameters at the time of the number blocking), can be:

manual - number is added manually

auto - number is added automatically during the analysis of conformity of the above conditions for entry to the white list

add time - while adding numbers

routing request count - the amount of requests for routing after the number's transfer to the white list

Description of the buttons purpose

Clear - cleaning of the number chart

Add To White List – adding of the numbers to the white list

Bulk Del - mass removing of the numbers. In the dialog window there are numbers for removing. In the function of the divider is used any non-numeric character.

Selected Del – removing of the selected numbers in the table

Import from File - adds the data from the file. In the function of the divider is used any non-numeric character.

Export To File – adds the data from a chart to a file with the extension .csv

Gray List chart - a list of the gray numbers

Gray List

Show entries

number	status	block time
22508003063	routing	2013-09-16 13:59:21
22508078844	routing	2013-09-24 17:08:14
22508125403	routing	2013-09-24 17:27:26
22508479709	routing	2013-09-16 13:59:18
22508864483	routing	2013-09-24 17:09:51
22509005513	routing	2013-09-24 17:48:08
22509390128	routing	2013-09-24 17:44:33
22509427010	routing	2013-09-24 17:31:44
22509655071	routing	2013-09-24 17:35:22
22509810629	routing	2013-09-16 15:50:29

The numbers are added to this chart on the basis of filtration algorithms: Filtration algorithm of the routing requests to: If during a definite period of time the number has passed a certain amount of calls that exceeds a predetermined maximum amount of requests for the gray list.

If the number goes to the gray list and this number continues to receive the calls intensively (amount of calls exceeds the maximum during a definite period of time), that is the number blocking is prolonged. Filtration algorithm of the call duration:

If calls with short duration exceeded the maximum amount of the calls allowed during a certain period of time, this number goes to the gray list.

After the time of blocking finishes, the number is no longer considered blocked, but it is for further control.

Parameters for the filters are set on the tab Config.

Search:

block count	block time left	routing request count
1	2013-09-16 14:59:21	25
1	2013-09-24 18:08:14	9
1	2013-09-24 18:27:26	14
1	2013-09-16 14:59:18	10
1	2013-09-24 18:09:51	12
1	2013-09-24 18:48:08	9
1	2013-09-24 18:44:33	9
1	2013-09-24 18:31:44	17
1	2013-09-24 18:35:22	17
1	2013-09-16 16:50:29	10

First Previous 1 2 3 4 5 Next Last

Description of the fields

number - the number itself
status - status of the number in the list (displays the filter parameters at the time of the number blocking), can be:
routing - the number is added to the list because it exceeded the allowed amount of routing requests (filtration algorithm of the routing requests)
acd - number is added to the list due to the short duration (filtration algorithm of the call duration)
block time - start time of the last blocking
block count - the total amount of blocking
block time left - time of the unblocking. If the number is blocked, the field block time will be highlighted in red
routing request count - the amount of routing requests after the number entered the gray list

Description of the purpose of the buttons

Clear - cleaning of the number chart
Bulk Del - mass removing of the numbers. In the dialog window there are numbers for removing. In the function of the divider is used any non-numeric character.
Selected Del - removing of the selected numbers in the table
Selected To Black List - moving the numbers to the black list

Таблица Black List - список черных номеров

Black List

Show entries

number	status
22501109841	manual
22501110046	manual
22501110165	manual
22501110238	manual
22501110243	manual
22501110545	manual
22501111003	manual
22501111076	manual
22501111290	manual
22501111420	manual

Clear

Add to Black List

Bulk Del

Selected Del

Import from File

Export to File

Search:

add time	routing request count
2012-11-30 17:03:59	86
2012-11-30 17:03:59	66
2012-11-30 17:03:59	112
2012-11-30 17:03:59	169
2012-11-30 17:03:59	70
2012-11-30 17:03:59	68
2012-11-30 17:03:59	206
2012-11-30 17:03:59	188
2012-11-30 17:03:59	226
2012-11-30 17:03:59	165

First Previous 1 2 3 4 5 Next Last

The numbers in this table are added on the basis of the filtration algorithms

Filtration algorithm for routing requests:

If during a definite period of time the number has passed a certain amount of calls that exceeds a predetermined maximum amount of requests for the black list. If the amount of blocking in the gray list according to the filtration algorithm of the routing requests exceeded the maximum allowed value, this number is transferred from the gray list to black list.

Filtration algorithm of call duration:

If the amount of blocking in the gray list according to the filtration algorithm of the call duration exceeded maximum allowed value, this number is transferred from gray list to black list.

Complementary to algorithms it is possible to add numbers in this table manually. The numbers of this list always are considered blocked. Parameters for the filters are set on the tab "Config".

Description of the fields

number - the number itself

status - status of the number in the list (displays the filter parameters at the time of the number blocking), can be:

manual - number is added manually

routing - the number is added to the list because it exceeded the allowable amount of routing requests or blocking in the gray list (filtration algorithm of routing requests)

acd - number is added to the list due to the exceeding of the allowable amount of blocking in the grey list (filtration algorithm of the call duration)

add time - time of number adding routing request count - the amount of routing requests after the number entered the black list

Description of the purpose of the buttons

Clear - cleaning of the number chart

Add To White List - adding of the numbers to the black list

Bulk Del - mass removing of the numbers. In the dialog window there are numbers for removing. In the function of the divider is used any non-numeric character.

Selected Del - removing of the selected numbers in the table

Import from File - adds the data from the file. In the function of the divider is used any non-numeric character.

Export To File - adds the data from a chart to a file with the extension .csv

Config TabNumbers filter config chart — consists of the parameters for filtration of the numbers

Numbers filter config

	White List	
add prefix		<input type="text"/>
	Gray List	
add prefix		<input type="text"/>
period		<input type="text"/>
max routing request per period		<input type="text"/>
block period		<input type="text"/>
<input checked="" type="checkbox"/> ACD analyze		
period		<input type="text"/>
max min acd call per period		<input type="text"/>
min acd		<input type="text"/>
	Black List	
add prefix		<input type="text"/>
period		<input type="text"/>
max routing request per period		<input type="text"/>
max block count befor move to black list		<input type="text"/>

Set Filter Configs

Section White List

add prefix — prefix line, which is added to the number for reference of the fact that the number is in white list

Section Gray List

add prefix - prefix line, which is added to the number for reference of the fact that the number is in gray list

period - period of time during which the system calculates the amount of routing requests (calls), minutes

max routing request per period - the maximum amount of routing requests (calls) during definite period of time

block period - the time interval when the number is blocked in the gray list, minutes

Section Black List

add prefix -prefix line, which is added to the number for reference of the fact that the number is in black list

period - period of time during which the system calculates the amount of routing requests (calls), minutes

max routing request per period - the maximum amount of routing requests (calls) during definite period of time

max block count befor move to black list — maximum amount of number blocking in the gray list, after which the number is transferred automatically to the black list

Section ACD analyze

period — time interval during which the system calculates the calls with short duration

max min acd call per period — maximum amount of the calls with short duration before going to the gray list

min acd — minimum value of the call duration for entering the gray list

If the number is in any of the lists it will be assigned a corresponding prefix that is already analyzed in the MVTS.

Installation of new values is done by pressing the button Set Filter Configs

Server Config chart – contains parameters for the port of the RADIUS server and parameters of the client's configuration (MVTs)

Server Config

radius port	<input type="text"/>
client 1 ip	<input type="text"/>
client 1 port	<input type="text"/>
client 1 shared secret	<input type="text"/>
client 2 ip	<input type="text"/>
client 2 port	<input type="text"/>
client 2 shared secret	<input type="text"/>
client 3 ip	<input type="text"/>
client 3 port	<input type="text"/>
client 3 shared secret	<input type="text"/>

Enable Proxy Server

proxy ip	<input type="text"/>
proxy auth port	<input type="text"/>
proxy acct port	<input type="text"/>
proxy shared secret	<input type="text"/>

radius port — port on which RADIUS server will receive the requests

client n ip — client's ip, which will send the requests (calls)

client n port — client's port, which will send the requests (calls)

client n shared secret — client's password (secret), which will send the requests (calls)

Section Enable Proxy Server- consists of parameters for proxy regime

proxy ip — client's ip, to which the requests (calls) will be transferred

proxy auth port — client's authentication port, to which the requests (calls) will be transferred

proxy acct port — client's accounting port, to which the requests (calls) will be transferred

proxy shared secret — client's password (secret), to which the requests (calls) will be transferred

Configuration of new values is done by pressing the button **Set Server Config**

CONFIGURATION OF THE PROJECT

- go to the tab Config
- assign filter parameters for Source and Destination numbers (zone Filter Config)
- assign parameters for RADIUS server (zone Server Config):

radius port - value Routing port in settings of MVTs in the section Radius

client n ip - ip MVTs

client n port - value Local Routing port in settings MVTs in section Radius

client n shared secret - secret key MVTs

- assign parameters for Proxy (zone Enable Proxy Server):

proxy ip - ip radius of the server (freeRADIUS)

proxy auth port - port, on which radius auth receives the requests (freeRADIUS)

proxy acct port - port, on which radius acct receives the requests (freeRADIUS)

proxy shared secret

Configuration of MVTs

in settings MVTs in section Radius in the field Routing IP Address you need to install computer's IP, where RADIUS server is run

Statistic Config

Numbers filter config

add prefix	White List	<input type="text"/>
add prefix	Gray List	<input type="text"/>
period		<input type="text"/>
max routing request per period		<input type="text"/>
block period		<input type="text"/>
<input checked="" type="checkbox"/> ACD analyze		
period		<input type="text"/>
max min acd call per period		<input type="text"/>
min acd		<input type="text"/>
add prefix	Black List	<input type="text"/>
period		<input type="text"/>
max routing request per period		<input type="text"/>
max block count before move to black list		<input type="text"/>

Server Config

radius port	<input type="text"/>
client 1 ip	<input type="text"/>
client 1 port	<input type="text"/>
client 1 shared secret	<input type="text"/>
client 2 ip	<input type="text"/>
client 2 port	<input type="text"/>
client 2 shared secret	<input type="text"/>
client 3 ip	<input type="text"/>
client 3 port	<input type="text"/>
client 3 shared secret	<input type="text"/>

Enable Proxy Server

proxy ip	<input type="text"/>
proxy auth port	<input type="text"/>
proxy acct port	<input type="text"/>
proxy shared secret	<input type="text"/>