



GATESCANNER REST API Service Version 3.4.1

Administration Guide

Your gate to a safe system

May 2021

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Chapter 1 – Introduction

GateScanner (GS) Secure API server, also known as GateScanner REST API server, allows applications to use RESTful HTTPS calls for sending file(s) to be scanned and/or converted in the GateScanner Engine(s). After completing the scanning process, the clean and converted file(s) are sent back to the application.

One GS REST API server can accept file(s) from multiple sources and multiple applications, using a grid of GS Engines which perform the scanning and conversion. Files are listed and sent to the GS Engines in a batch of files or a single file at a time. This allows the GS REST API server to support large amounts of files and capacity.

Using GateScanner REST API service will allow any 3rd party application to use GateScanner (GS) Secure API server and not only Windows based applications.

The diagram below describes the flow of the system:

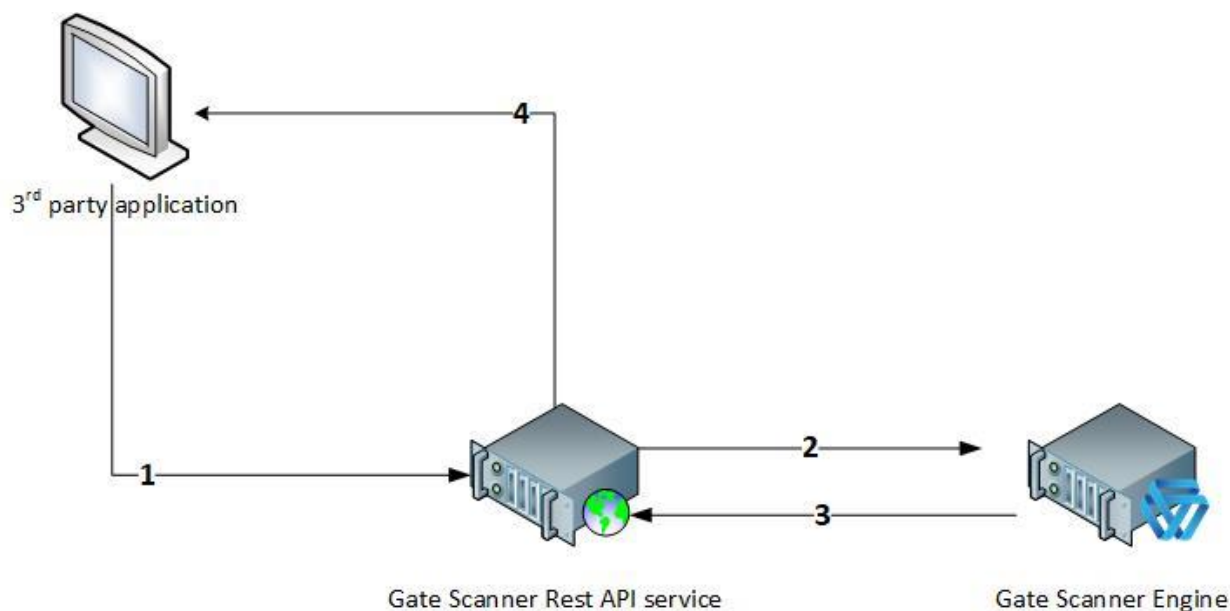


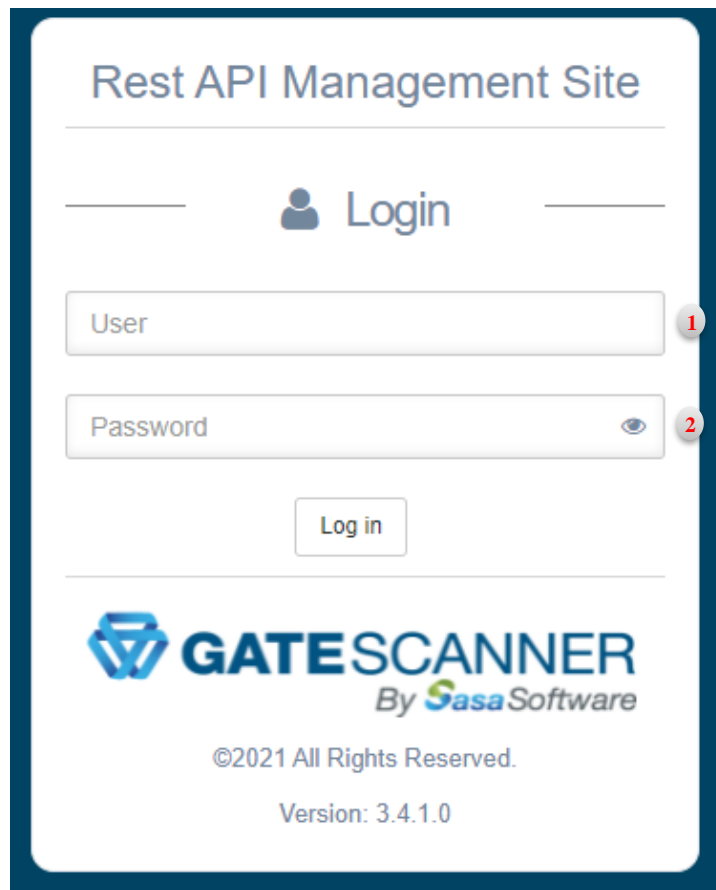
Figure 2: GateScanner Rest API flow

1. File is submitted for scanning to the REST API service.
2. REST API service takes the streamed file(s) and puts it in a folder for the GS Engines service.
3. GS Engine creates a scan job from the file(s) and it is completes the scan according to the policy and returns the file(s) and logs to the GS REST API service.
4. File(s) are streamed back to the sender.

Chapter 2 - Interface View

2.1 Login Screen

Once GateScanner Rest API is installed, user can open it by the internet browser with the following address by default: “http://SERVERADDRESS:PORT/admin/login.html”. A login screen should be opened:




Rest API Management Site

Login

User

Password

Log in

 **GATESCANNER**
By *Sasa* Software

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Figure 3: GS Rest API Web Client Login Screen

Login screen fields are described below:

1. User (by default, local server Administrator – ‘restadmin’)
2. Password (by default, local server Administrator password – ‘GSSasa2018’)

2.2 Home Page

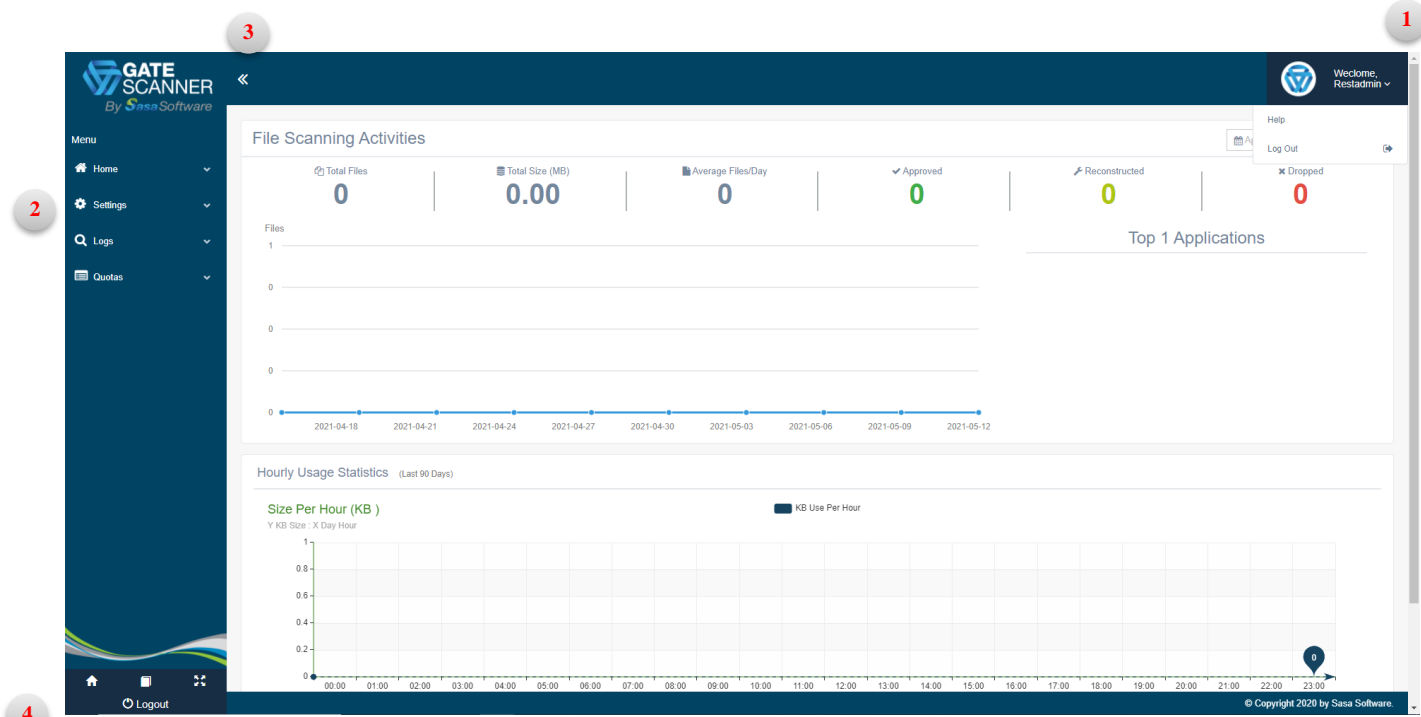


Figure 3: Home Page Overview

Home Page components are described below:

1. User Avatar – On click will expose Help and Logout options
 - a. Help – Opens GS Rest API Guide
 - b. Logout – Logs out the current user from site and navigates back to Login Screen.
2. General Site Tree – Contains navigation tabs and sub tabs that will navigate user to a relevant site topic. (Will be described below)
3. Site Tree collapsing and expanding button – On click will collapse the navigation tree to the left and expand it to the original position.
4. Quick Navigation buttons:
 - a. Home – Navigates the user to the Home Page.
 - b. Guide - Opens GS Rest API Guide
 - c. Full screen – Expands the browser to the Full screen view and vice versa.
 - d. Logout - Logs out the current user from site and navigates back to Login Screen.

2.3 Home Tab

2.3.1 Dashboard Tab



Figure 4: Dashboard Tab Overview

Dashboard Tab components are described below:

1. Dashboard Tab – navigates to the Server Dashboard Screen
2. File Scanning Activities – provides overall summary regarding files flow on the server including scan results.
3. Date filter - provides overall summary regarding files flow of the server under given time date context
4. Graphic presentation of file flow counter by day
5. Top Application – provides the top active applications on the server.
6. Hourly Usage Statistics – provides average Data flow per hour a day. Calculation is performed by last 30 days aggregation.

2.3.2 Server Health Tab

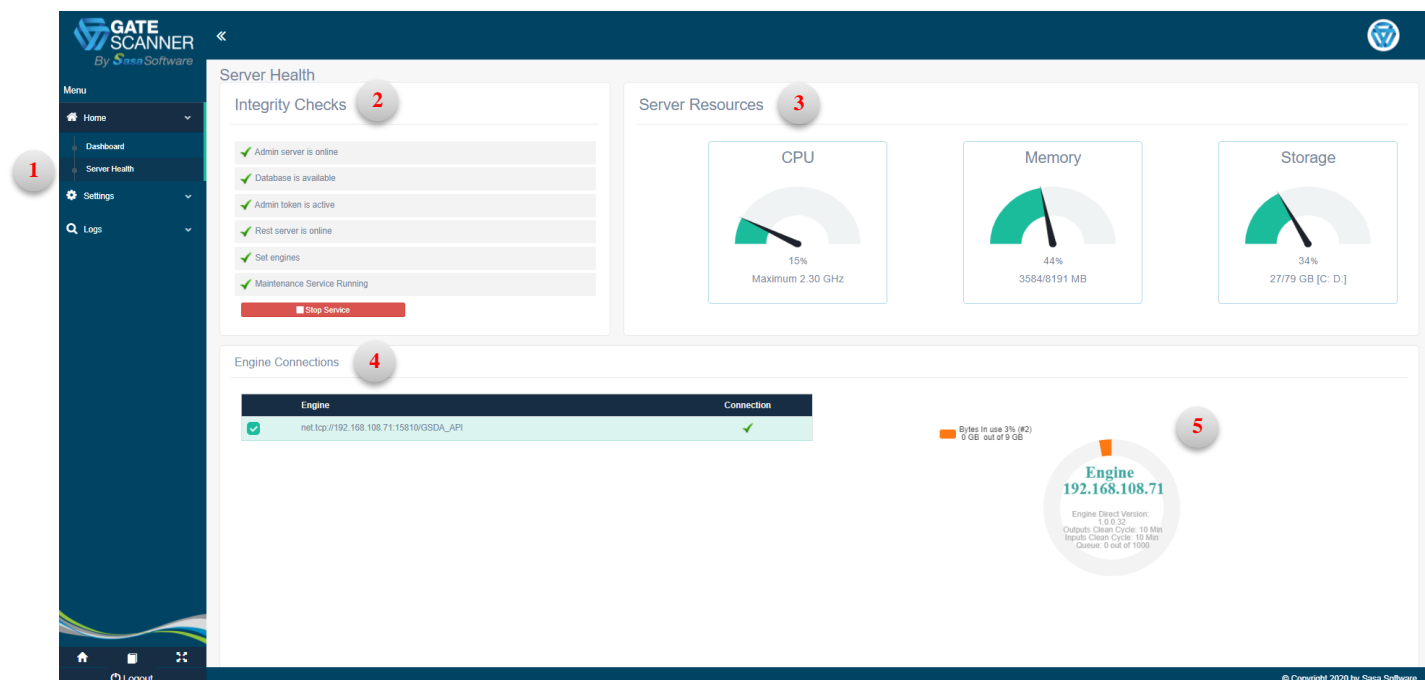


Figure 5: Server Health Tab Overview

Server Health Tab components are described below:

1. Server Health Tab – navigates to the Server Dashboard Screen
2. Integrity Checks:
 - a. Is Admin site online.
 - b. Is DB up and connected to the server.
 - c. Is the Server up and running.
 - d. Are engines connected to the server
 - e. Is Maintenance service up and running – Can be started/stopped by clicking Stop/Start service button. This service will clean any file stored in Temp folder of the server every hour.

3. Server Resources – Provides System Information of the server regarding CPU, Memory, and Storage usage.
4. Engine Connections – Shows the list of engines configured and their connection status.
5. Showing additional system info per engine (by selection from the previous component)

2.4 Companies Tab

2.4.1 Business Entities hierarchies

GS Rest API has a business entities hierarchy for registering the data flow on the server. The purpose of it is to allow multiple customers to connect to the server and keep track of the relevant data flow.

Every Company can receive data from multiple applications. Each Application sends files to the server by providing it's API key. (Will be demonstrated bellow)

Both entities can be quota allocated (For more information about Quotas, please see the Quotas chapter in this document).

In conclusion the hierarchy is as follows: Company -> Application/s.

2.4.2 Companies Tab

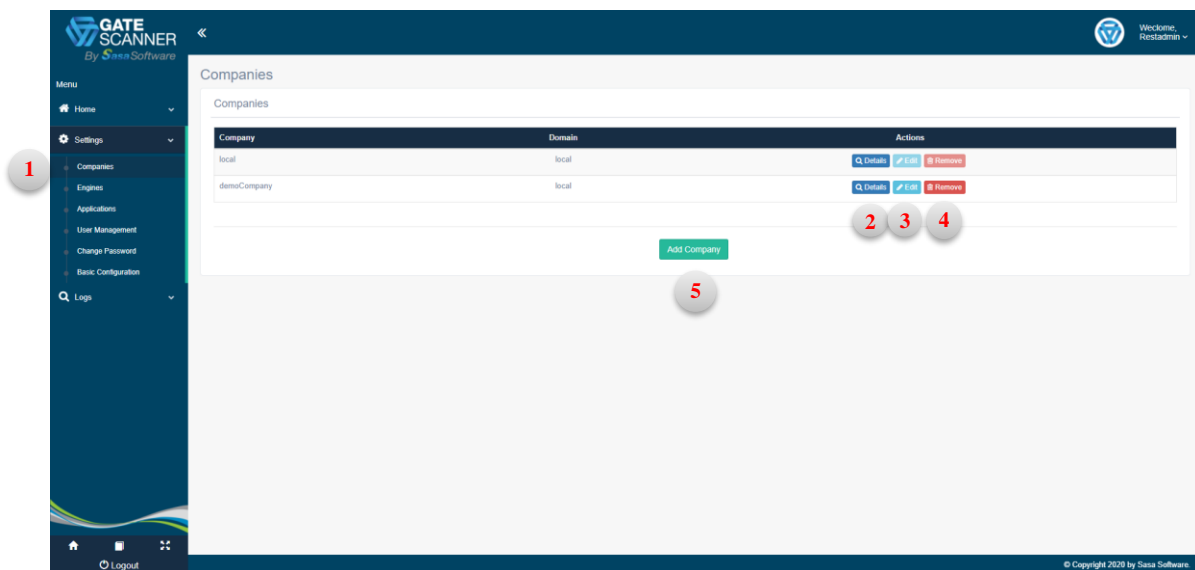
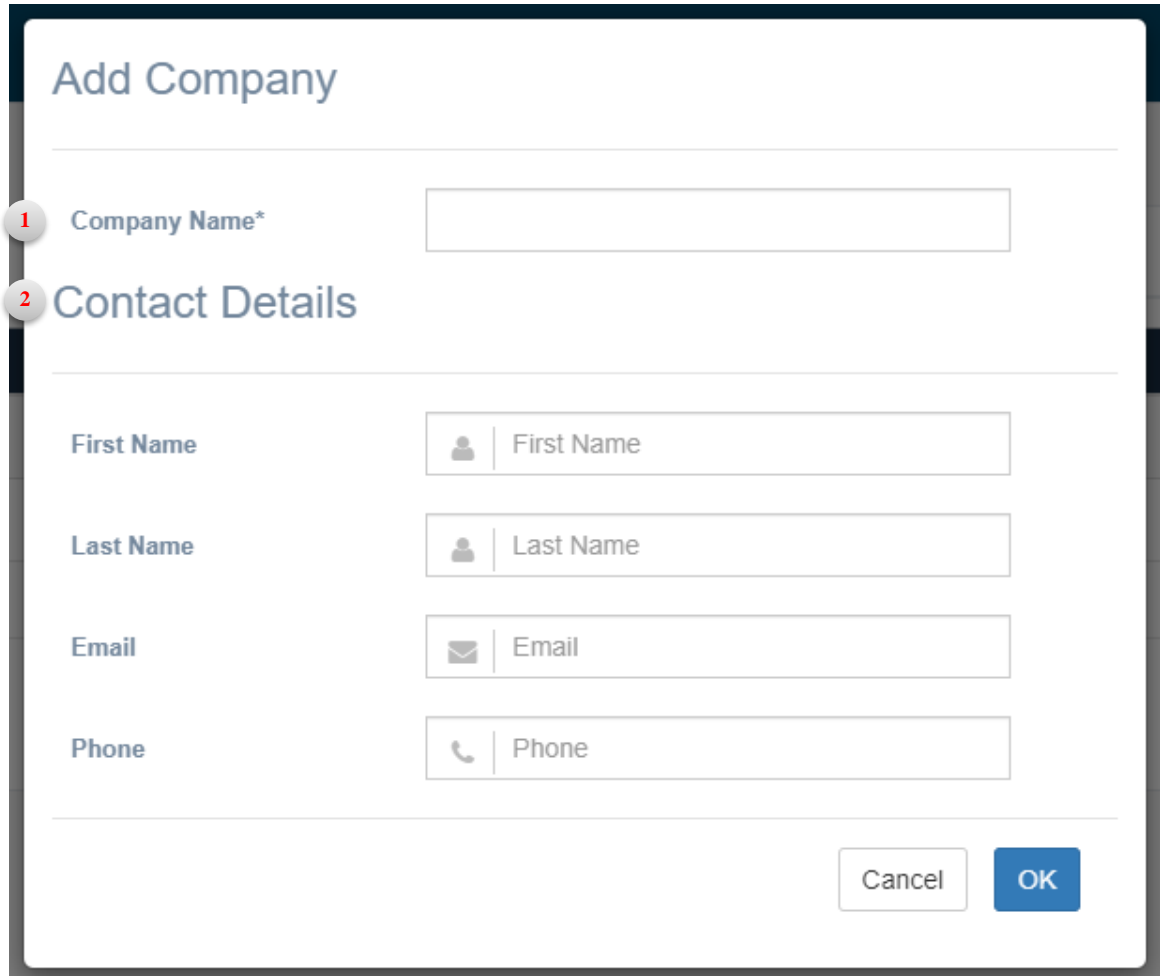


Figure 6: Companies Tab Overview

Server Health Tab components are described below:

1. Companies Tab – navigates to the Companies Screen.
2. Details Button – Brings up pop up window with selected company details.
3. Edit Button - Brings up pop up window allowing user editing company details.
4. Remove Button – Deletes the selected company from the system.
5. Add Company Button – Allows user to add a new company to the system.



Add Company

1 **Company Name***

2 **Contact Details**

First Name

Last Name

Email

Phone

Figure 7: Create company window

When creating a company, user will be asked to input the following details:

1. Company name
2. Contact details (Optional, will be mandatory for Quota based system. For Quotas information please see the Quotas chapter)

2.5 Engines Tab

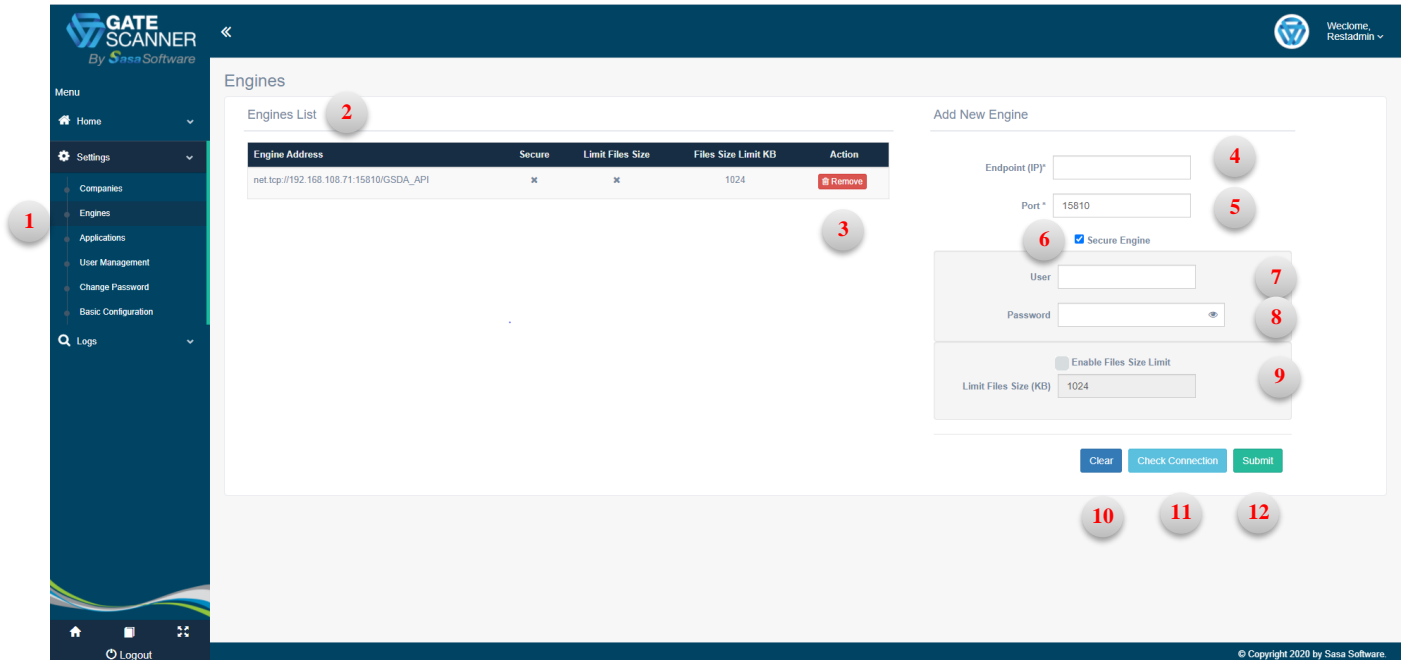


Figure 8: Engines Tab Overview

Engines Tab components are described below:

1. Engines Tab – navigates to the Engines Screen.
 2. Engines List – Displays all configured Engines in the system.
 3. Remove button – Removes a configured engine from the system.
- Add new Engine**
4. Endpoint IP – Enter Your Engine IP
 5. Port – Engine port to receive Uploads (Default value: 15810 net.tcp. Can be changed)
 6. Secure Engine checkbox – if true, the user will provide Engine login credentials.
 7. User – Secured Engine username
 8. Password – Secured Engine Password
 9. File Size limit checkbox – if true, the Rest API server will not allow to scan files in size greater than the textbox value.
 10. Clear button – Will clear all the temporary input of the fields above it.
 11. Check Connection button – When all the input fields were filled, will check if the Endpoint Connection is OK
 12. Submit – on click, will add the specified Engine to the system.

2.6 Applications Tab

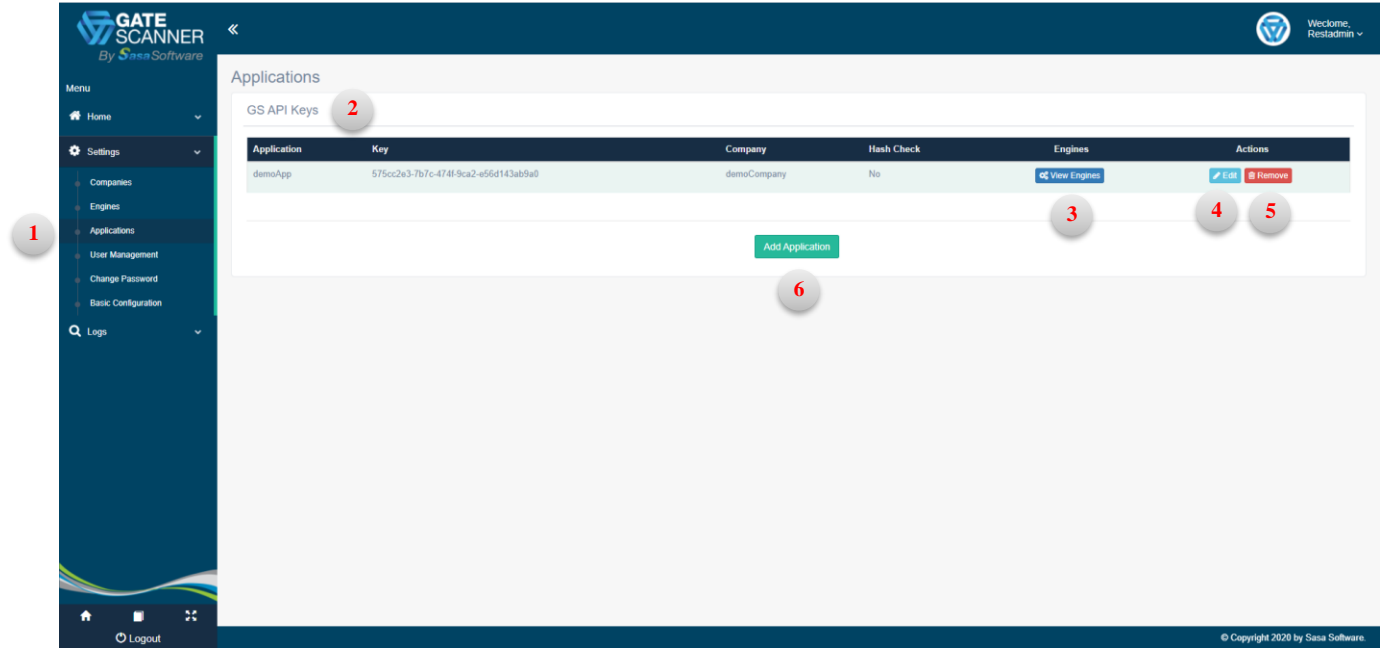


Figure 9: Applications Tab Overview

Applications Tab components are described below:

1. Applications Tab – navigates to the Applications Screen
2. GS API Keys Table – provides information about applications configured in the system:
 - a. Application – Name of the application
 - b. Key – Unique Application GUID. Used by the client as a mandatory parameter for file upload request.
3. View Engines button – opens a mini window with information about engines associated for the application at hand

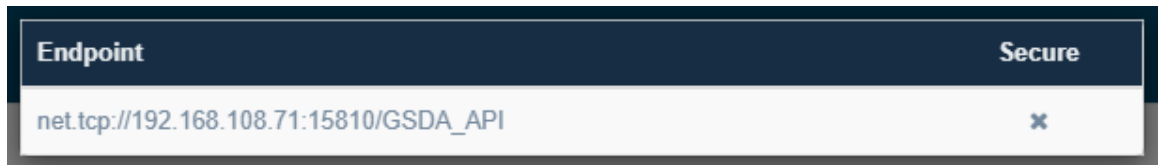
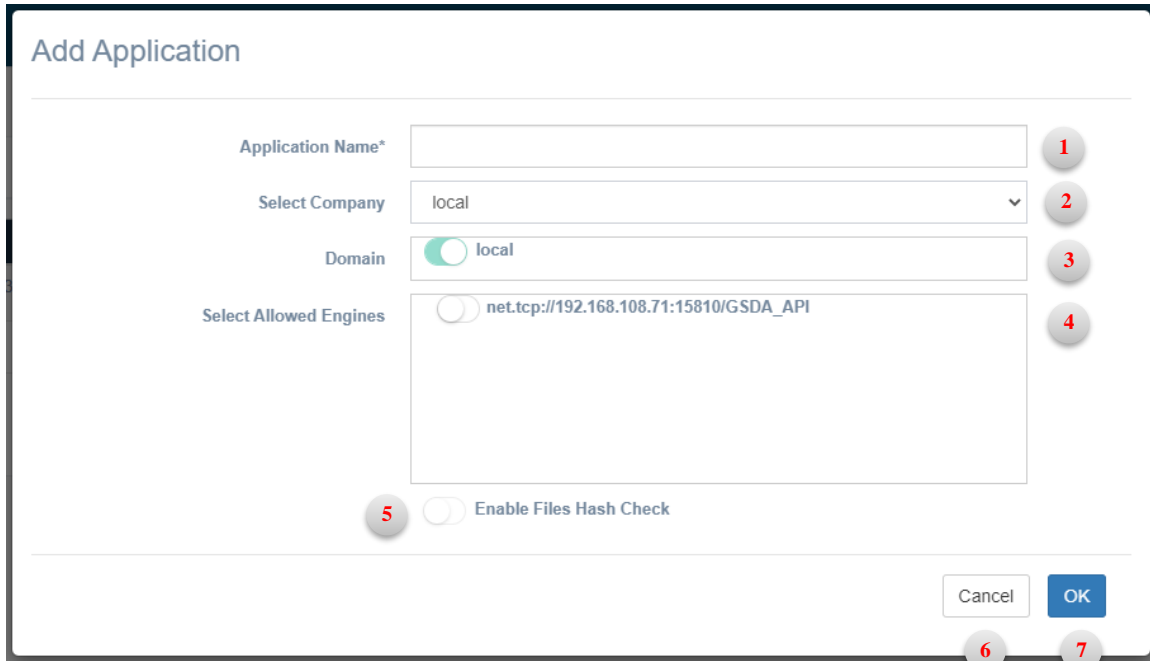


Figure 10: Engines attached window

4. Edit button – allows user to edit Application entity data
5. Remove button – removes the relevant application from the system
6. Add application – allows user to add new Applications to the system (see bellow)

2.6.1 Adding Application



The screenshot shows a dialog box titled "Add Application". It contains the following elements:

- 1. Application Name*: A text input field.
- 2. Select Company: A dropdown menu with "local" selected.
- 3. Domain: A radio button labeled "local" which is selected.
- 4. Select Allowed Engines: A list of engines with a radio button next to "net.tcp://192.168.108.71:15810/GSDA_API".
- 5. Enable Files Hash Check: A radio button which is currently disabled.
- 6. Cancel button: A button at the bottom right.
- 7. OK button: A button at the bottom right.

Figure 11: Application creation window

Applications Creation window components are described below:

1. Application Name textbox (Mandatory) – User provides the name of the added application.
2. Select Company dropbox – user will pick the Company that the application will be associated to. Companies can have multiple applications associated to.
3. Domain – Static field. Currently all Companies and Applications and Users are configured to a “Local” domain.
4. Select Allowed Engines window – By clicking toggles user can associate Engines configured in the system to the Application. Current window will include every Engine available. More than one Engine can be configured to the Application.
5. Enable Files Hash Check – Disabled by default. For more information please see Basic Settings Section of current Document.
6. Cancel button – on click cancels Application creation action.
7. OK button – Creates the Application with the provided input.

2.7 User Management Tab

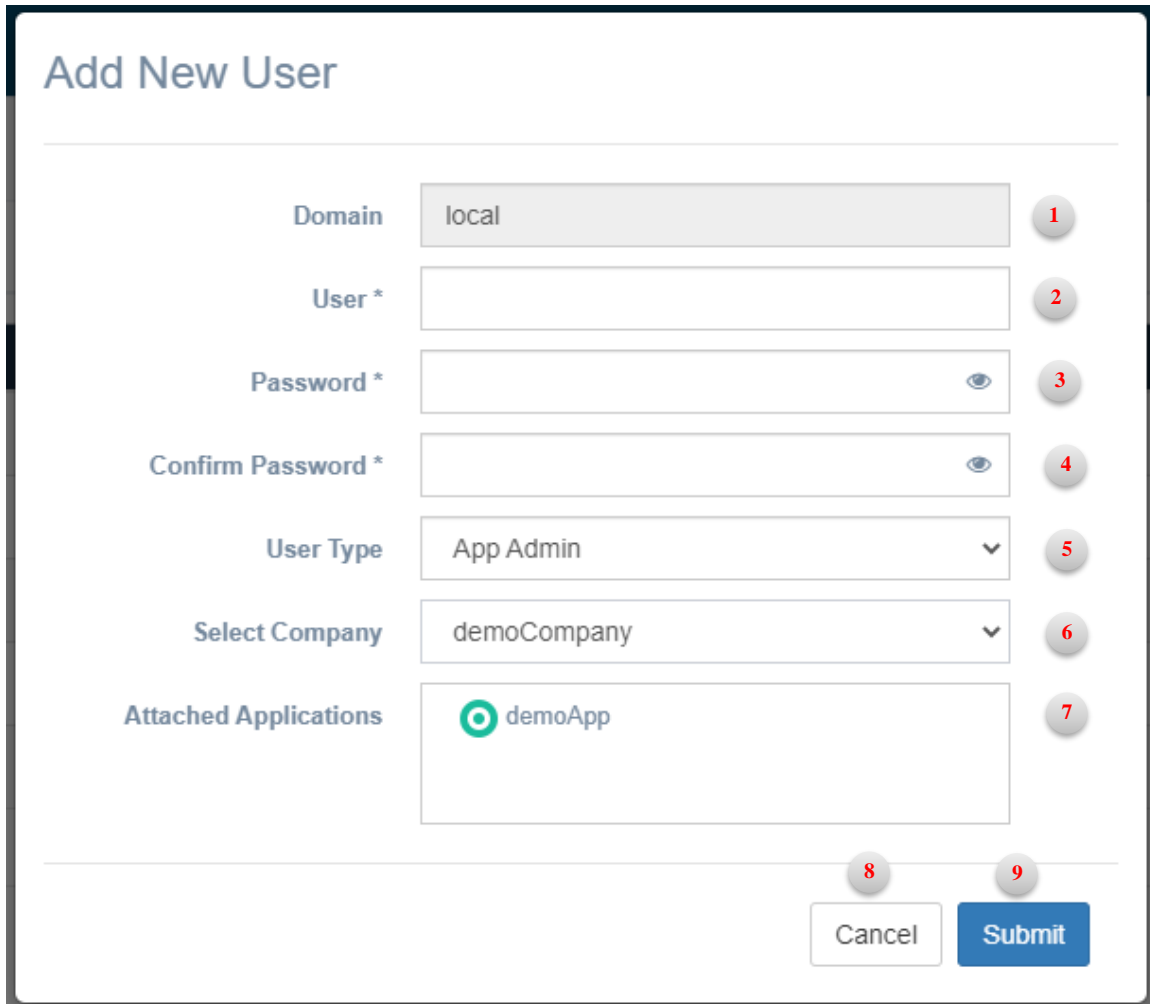
Domain	User	Type	Company	Views	Actions
local	RestAdmin	Administrator	local	Applications	Edit Remove
local	AppAdmin	App Admin	demoCompany	Applications	Edit Remove
local	AppUser	Apps User	demoCompany	Applications	Edit Remove
local	ReadAdmin	ReadAdmin	demoCompany	Applications	Edit Remove
local	CompanyAdmin	Company Admin	demoCompany	Applications	Edit Remove

Figure 12: User Management Tab Overview

User Management components are described below:

1. User Management Tab – navigates to the User Management Screen
2. Users Table – Provides list of all users configured in the system
3. Applications button – Provides information about Applications that the relevant user has access to.
4. Edit button – Enables to edit user data.
5. Remove button – Removes the relevant User from the system
6. Add New User – Enables creation of a new User (see bellow)

2.7.1 Add User Window



The screenshot shows a 'Add New User' window with the following components:

- 1. Domain: A text field containing 'local'.
- 2. User *: An empty text input field.
- 3. Password *: A text input field with a visibility toggle icon (eye).
- 4. Confirm Password *: A text input field with a visibility toggle icon (eye).
- 5. User Type: A dropdown menu showing 'App Admin'.
- 6. Select Company: A dropdown menu showing 'demoCompany'.
- 7. Attached Applications: A list box containing 'demoApp' with a green circular icon.
- 8. Cancel: A button at the bottom right.
- 9. Submit: A blue button at the bottom right.

Figure 13: User Creation Window

User Creation windows components are described below:

1. Domain – Static field. Currently all Companies and Applications and Users are configured to a “Local” domain.
2. User textbox – User name input field.
3. Password textbox – Password input field.
4. Confirm password textbox – Password confirmation input field.
5. User Type dropdown – Picks User Role and permission (see below for more info).
6. Select Company dropdown – Picks the Company to which the User will be associated.

7. Attached Applications – optional for Application Administrator and Application User roles. Will show relevant applications for the Company selected above.
8. Cancel button – Cancels User creation action
9. Submit button – Finishes the User creation action by adding the created User to the system

2.7.2 Users Roles and Hierarchy

GS REST API Administration interface provides User Roles functionality that allows different types of user permissions and hierarchy regarding data visibility and actions allowed on the site.

The User Roles are as follows:

1. RestAdmin – Super User. All site actions and data are allowed/accessible.
2. ReadAdmin – Read only Super user. All site data is accessible. Actions are unallowed.
3. CompanyAdmin – Only assigned Company related actions and data are allowed/accessible.
4. AppAdmin – Only assigned Applications related actions and data are allowed/accessible.
5. AppUser – Only assigned Applications related data is accessible. Actions are unallowed.

2.8 Change Password Tab

The following screen allows the logged in user to change Name and Password of other users according to Users Roles and Hierarchy on the site.

These are the edit permissions hierarchies by user role:

1. RestAdmin -> ReadAdmins, CompAdmins, AppAdmins, AppUsers
2. ReadAdmin -> Self
3. CompAdmin -> Self, AppAdmins, AppUsers
4. AppAdmin -> Self, AppUsers
5. AppUser -> Self

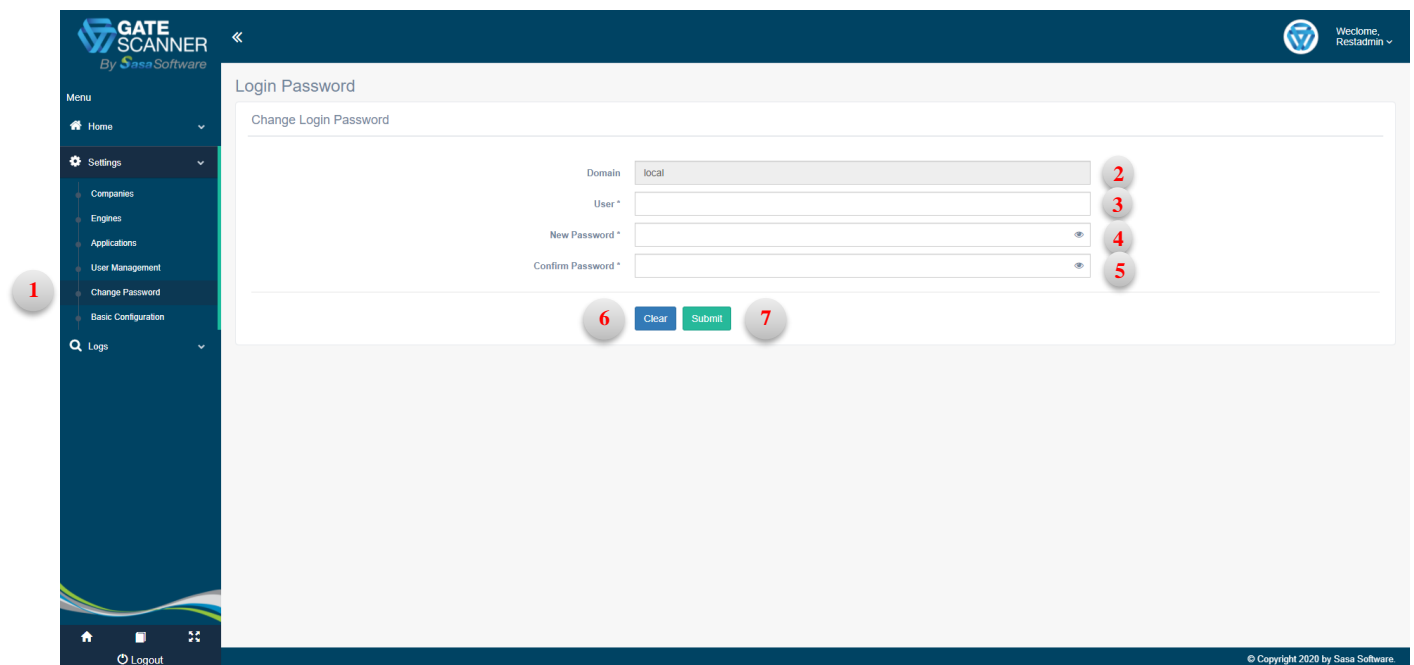


Figure 14: Change Password Tab Overview

User Management components are described below:

1. Change Password Tab - navigates to the Change Password Screen
2. Domain – Static field. Currently all Companies and Applications and Users are configured to a “Local” domain.
3. User textbox – What user (must be existent in the system) is designated for the password change action
4. New Password textbox – The new password to use

5. Confirm Password textbox – Confirm the New Password from the field above
6. Clear button – clears all the input from the fields above
7. Submit button – Completes the Change Password action

2.9 Basic Settings Tab

It is highly recommended to go through configuration process via tabs bellow for a best GS REST API functionality

2.9.1 General Settings

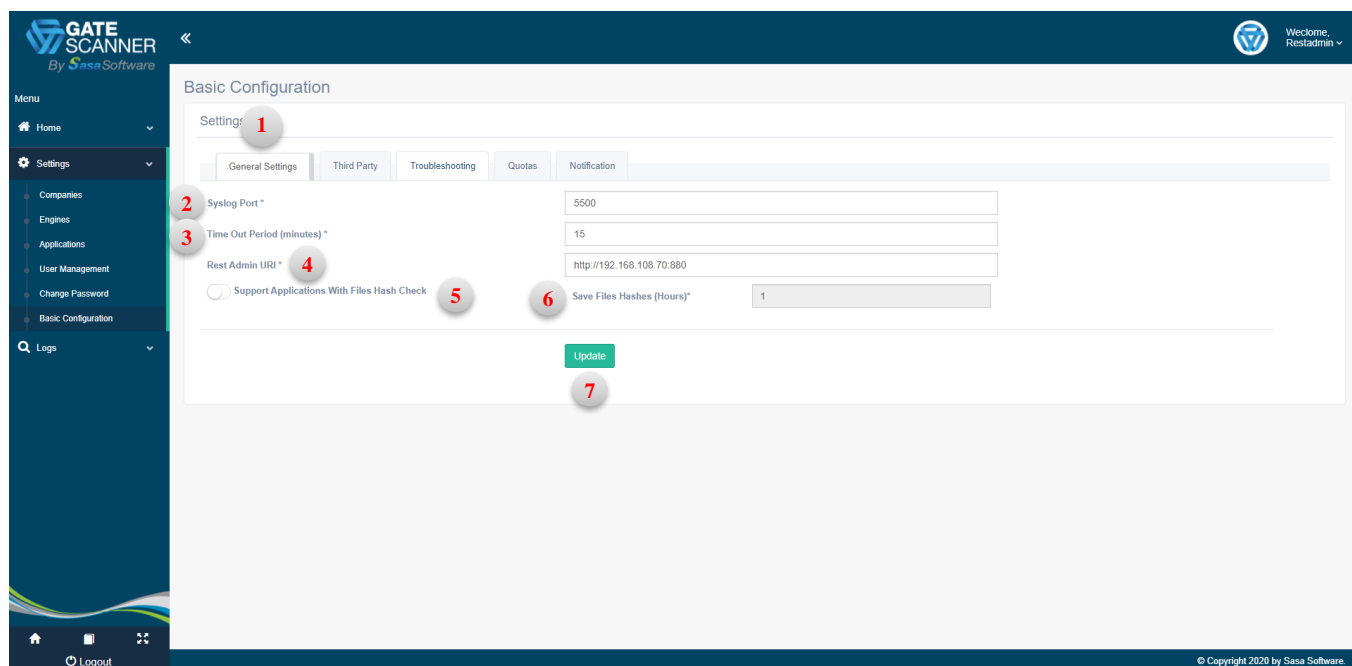


Figure 15: General Settings Tab Overview

General Settings components are described below:

1. General Settings Tab - navigates to the General Settings screen
2. Syslog Port – Indicates the port on the Server side to listen to Engine Syslog Data.
3. Time Out Period – Default idled action on site timeout period for automatic log out of the current session on the site
4. Rest Admin URI – Default Admin Site URI
5. Support Application with Files Hash Check – Allows to configure an application to save hash of a single whole file for a set time period. (Only in cases where the Scanning of the file was OK). Sending a file with same hash for multiple times will return only the scan logs from the engine with no file output. Once allowed, will be available in all existent (by setting the property to True on Application level) and new applications.
6. Save Files Hashes (Hours) – Time interval to save the hashes of the functionality above
7. Update button – Update the input settings on the server

2.9.2 Third Party

GS REST API server has supports also Third Party connections, such as Menlo & Fireglass systems.

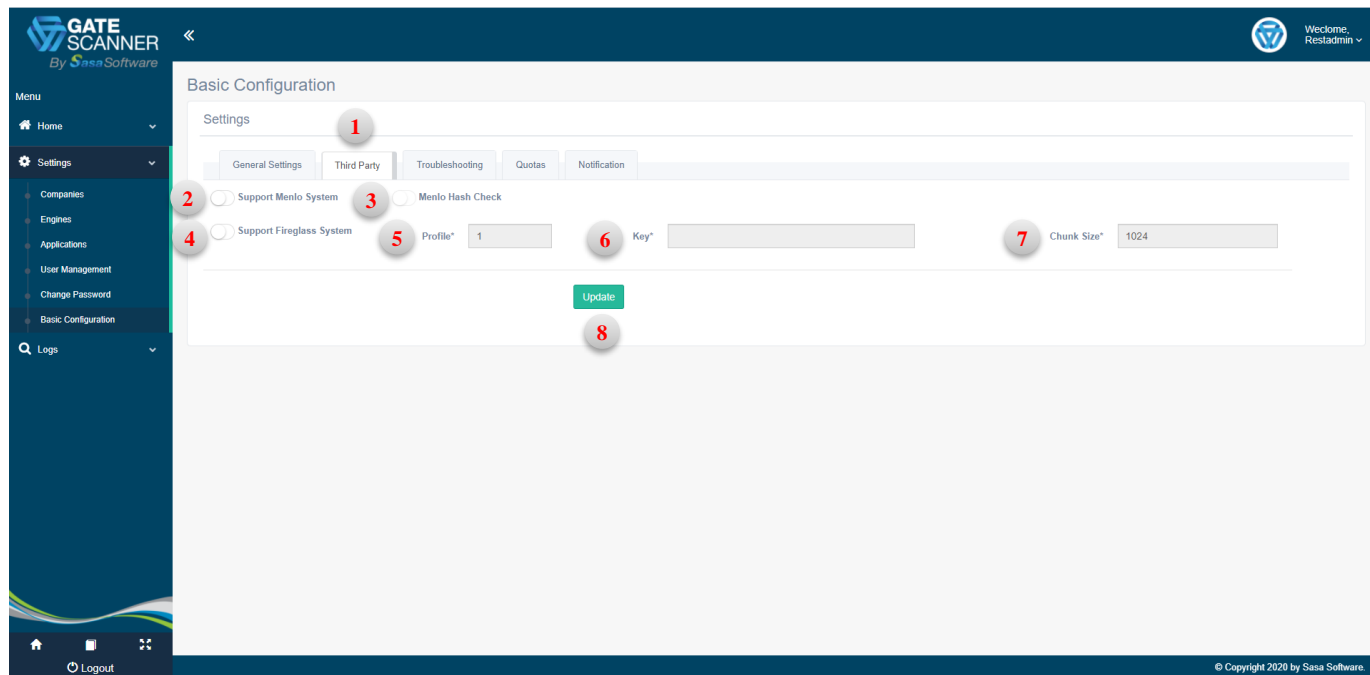


Figure 16: Third Party Tab Overview

Third Party Tab components are described below:

1. Third Party Tab - navigates to the Third Party screen
2. Support Menlo System toggle – if True will support Menlo System
3. Menlo Hash Check toggle - Allows to configure an application to save hash of a single non-chunked (whole) file.
4. Support Fireglass System - if True will support Fireglass System
5. Profile textbox – addresses the index number of an Engine profile to use when working with Fireglass System support
6. Key textbox – Working with Fireglass system must be performed using a key provided by Fireglass. To integrate the following functionality, a Fireglass System key should be declared in the field.

7. Chunk Size – Defining the chunks size for big files while working with Fireglass System.

8. Update button – Update the input settings on the server

2.9.3 Troubleshooting Tab

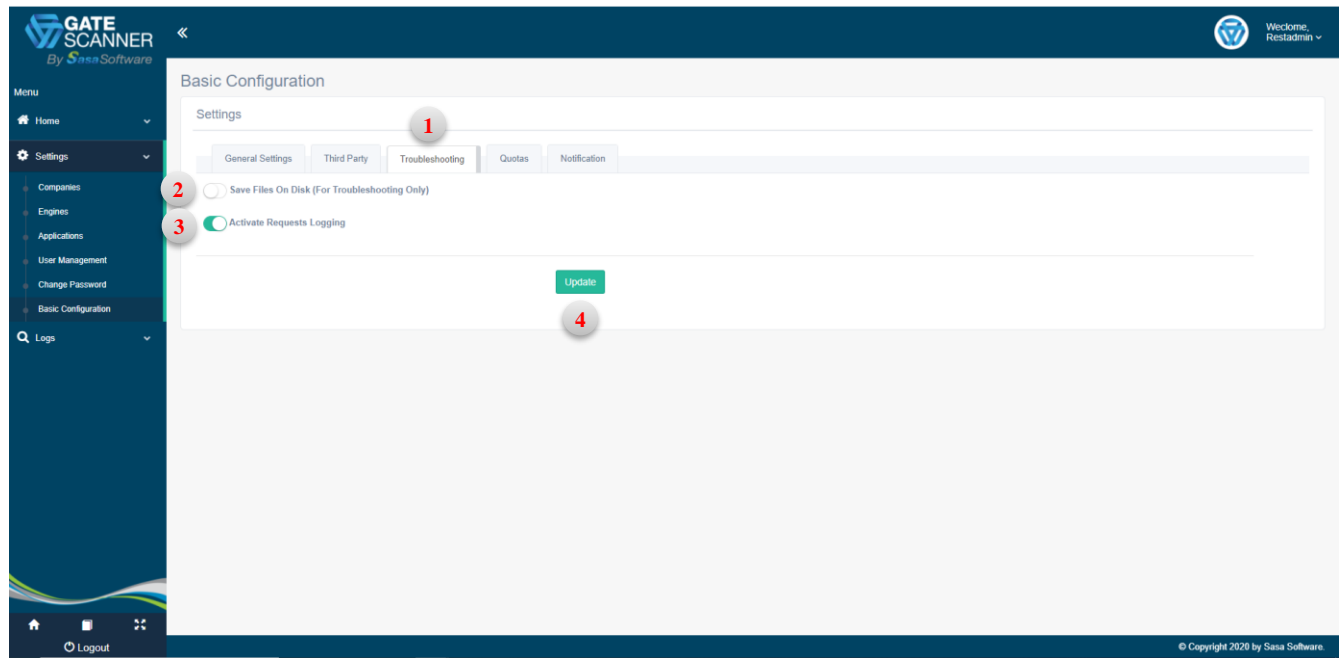


Figure 17: Troubleshooting Tab Overview

Troubleshooting Tab components are described below:

1. Troubleshooting Tab - navigates to the Troubleshooting screen
2. Save Files On Disk toggle – Overrides the DELETE requests from the REST Clients by saving the Scanned files on the physical disk space of the server. **IMPORTANT:** May deplete server disk space. Make sure that the Maintenance Service is up and running!
3. Activate Request Logging toggle – if True, the service will log every incoming request to the sever. Request Log will be (including bad requests) shown under Logs -> Requests Logs at the current Administration Interface.
4. Update button – Update the input settings on the server

2.9.4 Notification Tab

For Quotas related components please see Quotas chapter

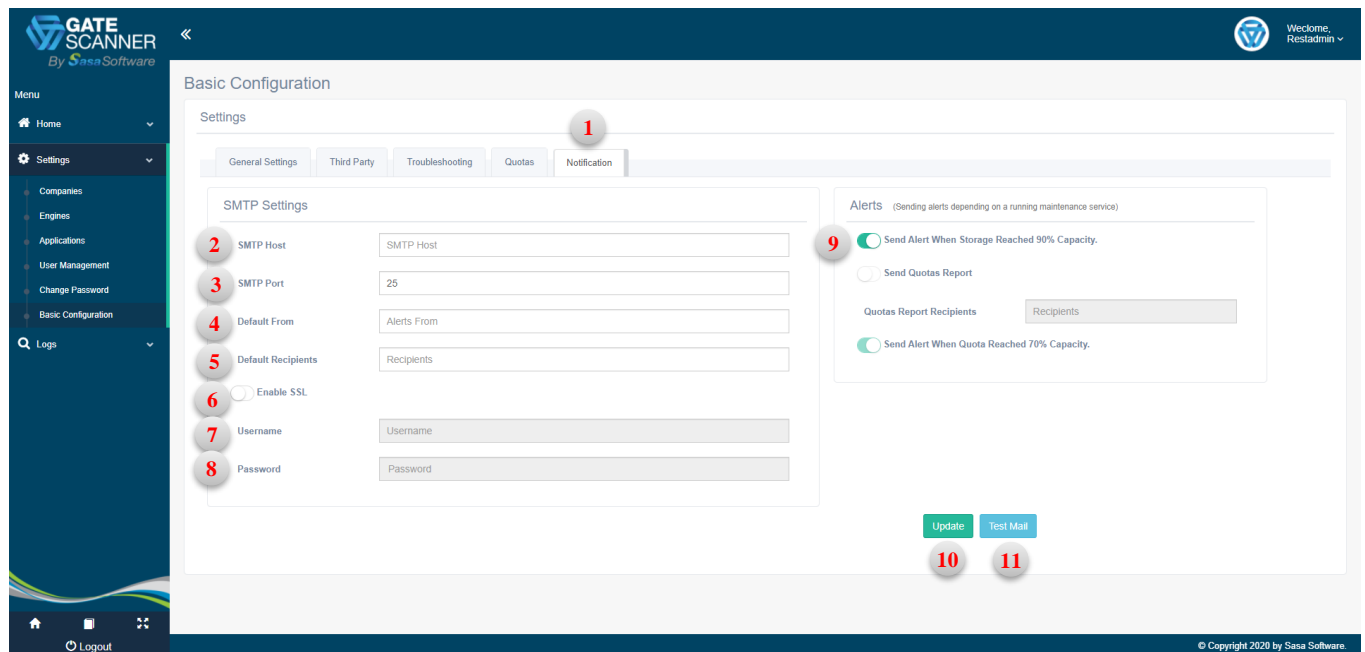


Figure 18: Notification Tab Overview

Notification Tab components are described below:

1. Notification Tab - navigates to the Notification screen
2. SMTP Host textbox – Input of Your Company`s SMTP Host
3. SMTP HOST Port textbox – Input the Port of Your SMTP Host (25 by Default)
4. Default From textbox – Input the Default Notification Sender Email Address
5. Default Recipient address textbox – Input Default Recipients addresses of the GS REST API Server email notifications. Multiple recipients can be added by using “;” as separator between email addresses
6. Enable SSL toggle – for secured SMTP Host with SSL
7. Username textbox – If the above toggle enabled, provide valid username credential for connecting the SMTP Host. In case SMTP authentication is needed
8. Password textbox – If 5 enabled, provide valid password credential for connecting the SMTP Host. In case SMTP authentication is needed

9. Send Alert When storage Reached 90% Capacity toggle – If true, the server will send warning email notification to the Default Recipient address when Disk Capacity on the Server will reach 90% use of its storage.

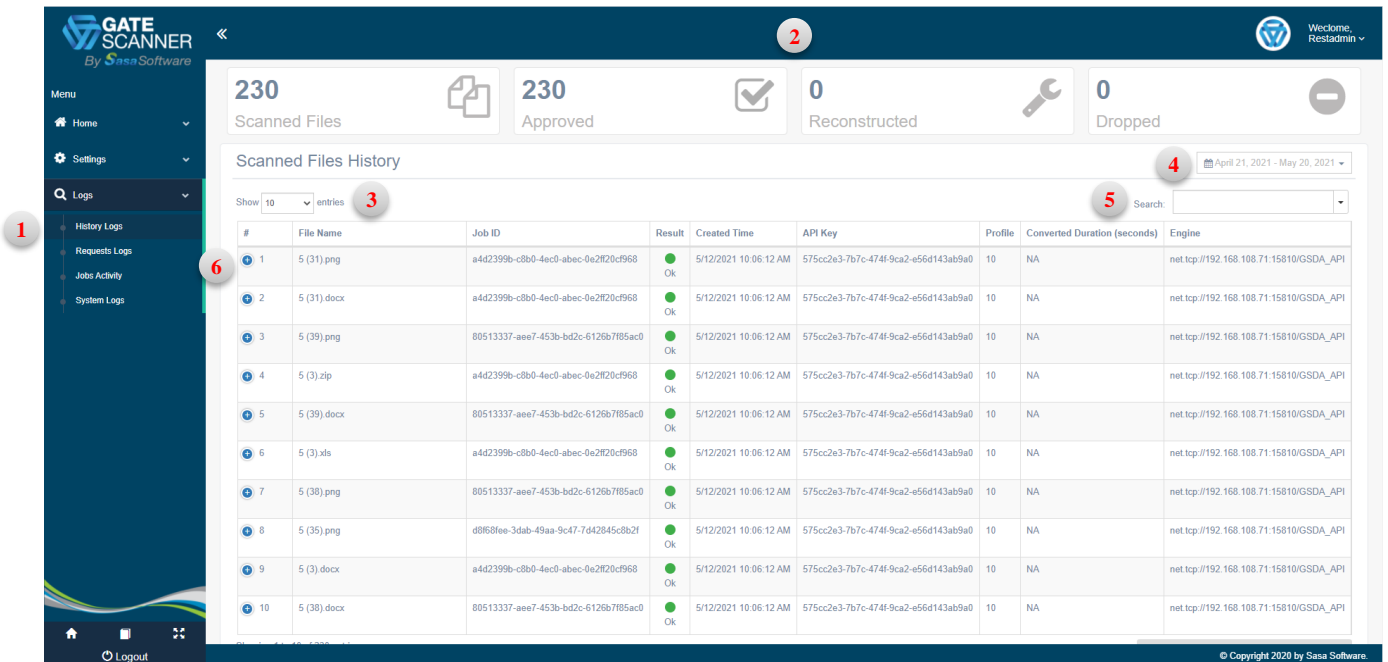
10. Update button – Update the input settings on the server

11. Test Mail button – on click, will send a test notification to the Default Recipient address.

2.10 Logs Tab

2.10.1 History Logs

History Logs provide information regarding files scanned by the GS REST API server.



230 Scanned Files | **230** Approved | **0** Reconstructed | **0** Dropped

Scanned Files History

Show 10 entries

#	File Name	Job ID	Result	Created Time	API Key	Profile	Converted Duration (seconds)	Engine
1	5 (31) png	a4d2399b-c8b0-4ec0-abec-0e2ff20cf968	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
2	5 (31) docx	a4d2399b-c8b0-4ec0-abec-0e2ff20cf968	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
3	5 (39) png	80513337-aae7-453b-bd2c-6126b7f85ac0	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
4	5 (3) zip	a4d2399b-c8b0-4ec0-abec-0e2ff20cf968	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
5	5 (39) docx	80513337-aae7-453b-bd2c-6126b7f85ac0	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
6	5 (3) xls	a4d2399b-c8b0-4ec0-abec-0e2ff20cf968	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
7	5 (38) png	80513337-aae7-453b-bd2c-6126b7f85ac0	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
8	5 (35) png	d8f6f6e-3dab-49aa-9ca7-7d42845c0b2f	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
9	5 (3) docx	a4d2399b-c8b0-4ec0-abec-0e2ff20cf968	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
10	5 (38) docx	80513337-aae7-453b-bd2c-6126b7f85ac0	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API

Figure 19: History Logs Tab Overview

History Logs Tab components are described below:

1. History Logs Tab - navigates to the History Logs screen
2. Overall statistics – provides information about overall uploaded file scanning results in the system
3. Show X entries drop box – defines the number of entries shown per page (10, 25, 50, or 100)

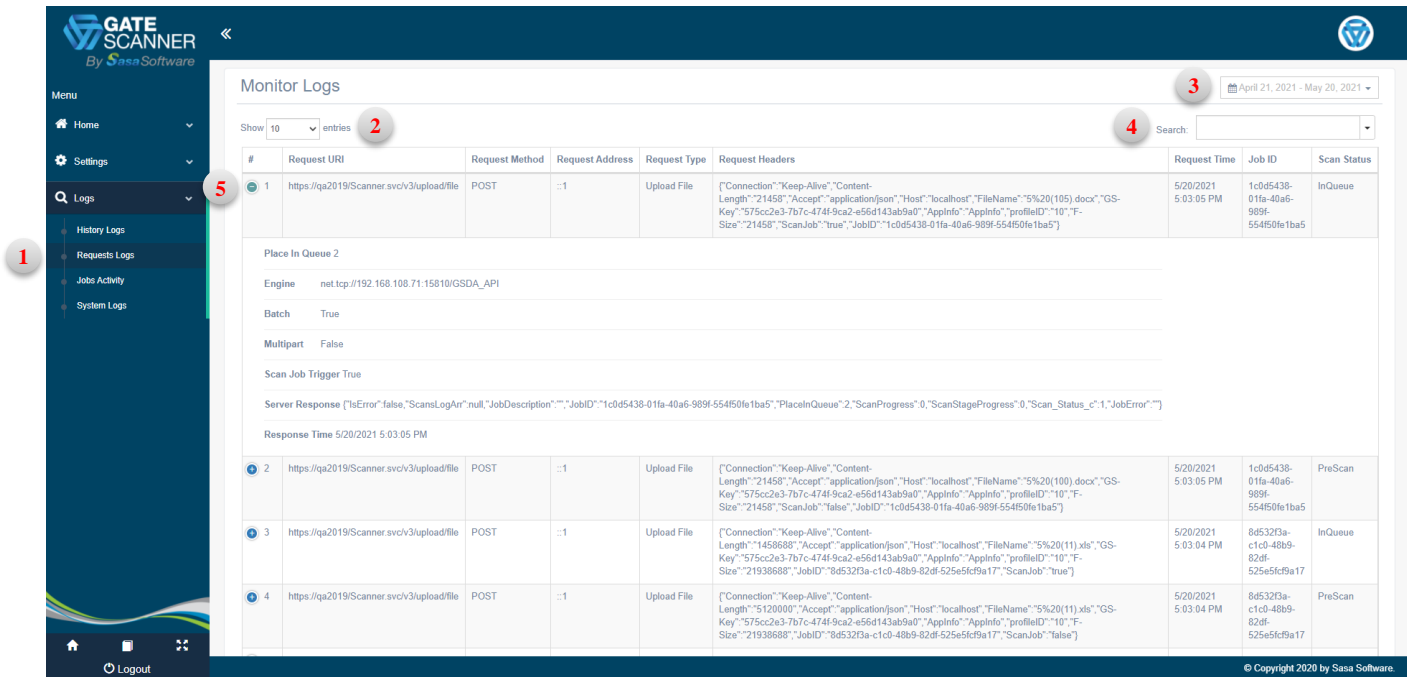
4. Time based filtering dropbox – provides time framed data filtering (such as: Today, Last Month, Custom Dates, etc.)
5. Search – Free text search tool. If the arrow is clicked, will provide header search options.
6. File expanded Data view – Will provide additional information regarding a chosen file

Scanned Files History								
April 21, 2021 - May 20, 2021								
#	File Name	Job ID	Result	Created Time	API Key	Profile	Converted Duration (seconds)	Engine
1	5 (31).png	a4d2399b-c8b0-4ec0-abec-0e2f20cf968	Ok	5/12/2021 10:06:12 AM	575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	10	NA	net.tcp://192.168.108.71:15810/GSDA_API
<p>Original File Size (bytes) 14743261</p> <p>Original File Type png</p> <p>True File Type</p> <p>Original File HASH</p> <p>New File Size (bytes) -</p> <p>New File HASH</p> <p>Full File Path a4d2399b-c8b0-4ec0-abec-0e2f20cf96813a31725-c3e2-42d0-a0e6-1a678b6474cf.png</p> <p>Output File Name a4d2399b-c8b0-4ec0-abec-0e2f20cf96813a31725-c3e2-42d0-a0e6-1a678b6474cf.png</p> <p>Output File Path 637564107241029436_10a4d2399b-c8b0-4ec0-abec-0e2f20cf96813a31725-c3e2-42d0-a0e6-1a678b6474cf.png</p> <p>Log Messages</p> <p>1: Passed Description : <OK> [OK]</p> <p>Log Error Messages</p> <p>Start Job Datetime 5/12/2021 10:06:08 AM</p> <p>Is ReAttached False</p> <p>Middle Formats</p>								

Figure 20: History Logs Expanded File View

2.10.2 Requests Logs

Requests Logs provide information regarding all requests performed against the GS REST API Server. By Default, this option is disabled. To enable please go to Settings -> Basic Settings -> Troubleshooting.



Monitor Logs

Show 10 entries

Search: []

#	Request URI	Request Method	Request Address	Request Type	Request Headers	Request Time	Job ID	Scan Status
1	https://qa2019/Scanner.svc/v3/uploadfile	POST	::1	Upload File	["Connection":"Keep-Alive","Content-Length":"21458","Accept":"application/json","Host":"localhost","FileName":"5%20(105).docx","GS-Key":"575cc2a3-7b7c-474f-9ca2-e56d143ab5a0","AppInfo":"AppInfo","profileID":"10","F-Size":"21458","ScanJob":"true","JobID":"1c0d5438-01fa-40a6-989f-554f50fe1ba5"]	5/20/2021 5:03:05 PM	1c0d5438-01fa-40a6-989f-554f50fe1ba5	InQueue
Place In Queue 2								
Engine net.tcp://192.168.108.71:15810/GSDA_API								
Batch True								
Multipart False								
Scan Job Trigger True								
Server Response ["IsError":false,"ScansLogArr":null,"JobDescription":"","JobID":"1c0d5438-01fa-40a6-989f-554f50fe1ba5","PlaceInQueue":2,"ScanProgress":0,"ScanStageProgress":0,"Scan_Status_c":1,"JobError":"","Response Time 5/20/2021 5:03:05 PM								
2	https://qa2019/Scanner.svc/v3/uploadfile	POST	::1	Upload File	["Connection":"Keep-Alive","Content-Length":"1458688","Accept":"application/json","Host":"localhost","FileName":"5%20(100).docx","GS-Key":"575cc2a3-7b7c-474f-9ca2-e56d143ab5a0","AppInfo":"AppInfo","profileID":"10","F-Size":"21938688","ScanJob":"false","JobID":"1c0d5438-01fa-40a6-989f-554f50fe1ba5"]	5/20/2021 5:03:05 PM	1c0d5438-01fa-40a6-989f-554f50fe1ba5	PreScan
3	https://qa2019/Scanner.svc/v3/uploadfile	POST	::1	Upload File	["Connection":"Keep-Alive","Content-Length":"1458688","Accept":"application/json","Host":"localhost","FileName":"5%20(11).xls","GS-Key":"575cc2a3-7b7c-474f-9ca2-e56d143ab5a0","AppInfo":"AppInfo","profileID":"10","F-Size":"21938688","JobID":"8d532f3a-c1c0-48b9-82df-525e5fc9a17","ScanJob":"true"]	5/20/2021 5:03:04 PM	8d532f3a-c1c0-48b9-82df-525e5fc9a17	InQueue
4	https://qa2019/Scanner.svc/v3/uploadfile	POST	::1	Upload File	["Connection":"Keep-Alive","Content-Length":"5120000","Accept":"application/json","Host":"localhost","FileName":"5%20(11).xls","GS-Key":"575cc2a3-7b7c-474f-9ca2-e56d143ab5a0","AppInfo":"AppInfo","profileID":"10","F-Size":"21938688","JobID":"8d532f3a-c1c0-48b9-82df-525e5fc9a17","ScanJob":"false"]	5/20/2021 5:03:04 PM	8d532f3a-c1c0-48b9-82df-525e5fc9a17	PreScan

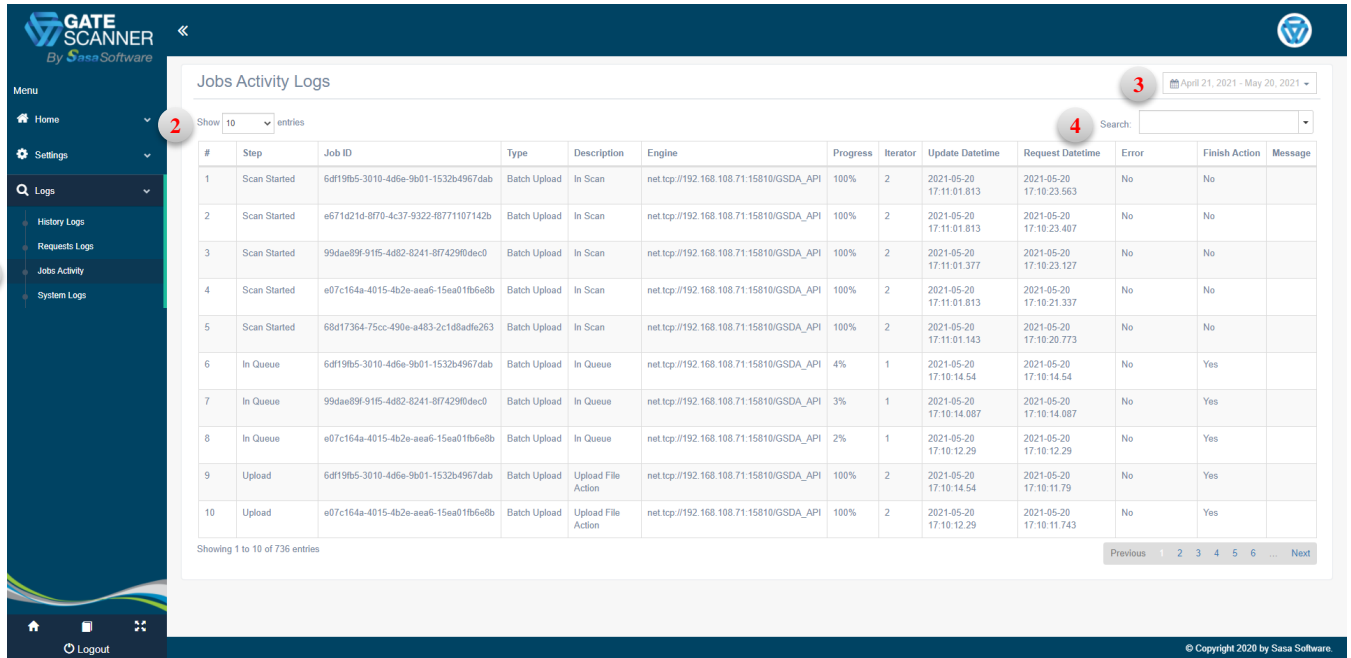
Figure 21: Requests Logs Tab Overview

Requests Logs Tab components are described below:

1. Requests Logs Tab - navigates to the Requests Logs screen
2. Show X entries drop box – defines the number of entries shown per page (10, 25, 50, or 100)
3. Time based filtering dropdown – provides time framed data filtering (such as: Today, Last Month, Custom Dates, etc.)
4. Search – Free text search tool. If the arrow is clicked, will provide header search options.
5. Request expanded Data view – Will provide additional information regarding a chosen request

2.10.3 Jobs Activity Logs

Provides information regarding file upload Jobs Activity on the server.



#	Step	Job ID	Type	Description	Engine	Progress	Iterator	Update Datetime	Request Datetime	Error	Finish Action	Message
1	Scan Started	6df19b5-3010-4d5e-9b01-1532b4967dab	Batch Upload	In Scan	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:11:01.813	2021-05-20 17:10:23.563	No	No	
2	Scan Started	e671d21d-8f70-4c37-9322-8b71107142b	Batch Upload	In Scan	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:11:01.813	2021-05-20 17:10:23.407	No	No	
3	Scan Started	99dae89f-91f5-4d82-8241-87429b0dec0	Batch Upload	In Scan	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:11:01.377	2021-05-20 17:10:23.127	No	No	
4	Scan Started	e07c164a-4015-4b2e-aaa6-15ea01fb6e8b	Batch Upload	In Scan	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:11:01.813	2021-05-20 17:10:21.337	No	No	
5	Scan Started	68d17364-75cc-490e-a483-2c1d8ad9e263	Batch Upload	In Scan	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:11:01.143	2021-05-20 17:10:20.773	No	No	
6	In Queue	6df19b5-3010-4d5e-9b01-1532b4967dab	Batch Upload	In Queue	net.tcp://192.168.108.71:15810/GSDA_API	4%	1	2021-05-20 17:10:14.087	2021-05-20 17:10:14.54	No	Yes	
7	In Queue	99dae89f-91f5-4d82-8241-87429b0dec0	Batch Upload	In Queue	net.tcp://192.168.108.71:15810/GSDA_API	3%	1	2021-05-20 17:10:14.087	2021-05-20 17:10:14.087	No	Yes	
8	In Queue	e07c164a-4015-4b2e-aaa6-15ea01fb6e8b	Batch Upload	In Queue	net.tcp://192.168.108.71:15810/GSDA_API	2%	1	2021-05-20 17:10:12.29	2021-05-20 17:10:12.29	No	Yes	
9	Upload	6df19b5-3010-4d5e-9b01-1532b4967dab	Batch Upload	Upload File Action	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:10:14.54	2021-05-20 17:10:11.79	No	Yes	
10	Upload	e07c164a-4015-4b2e-aaa6-15ea01fb6e8b	Batch Upload	Upload File Action	net.tcp://192.168.108.71:15810/GSDA_API	100%	2	2021-05-20 17:10:12.29	2021-05-20 17:10:11.743	No	Yes	

Showing 1 to 10 of 736 entries

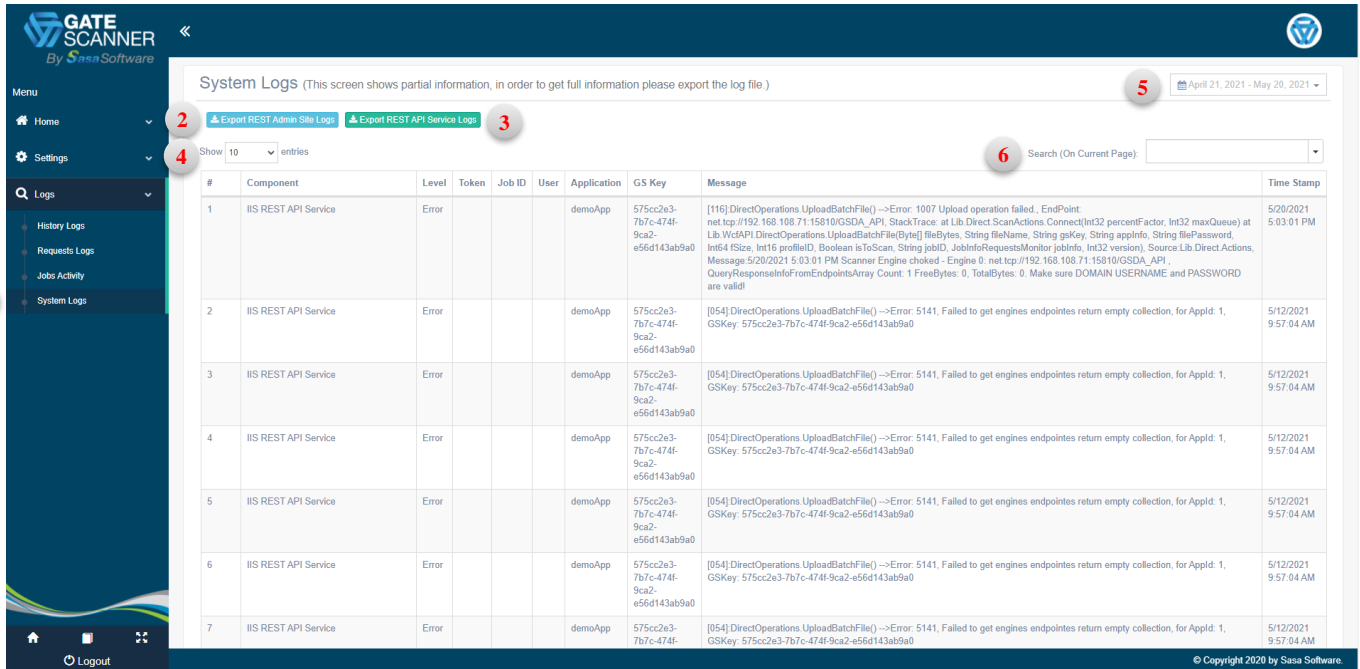
Figure 22: Jobs Activity Logs Tab Overview

Jobs Activity Logs Tab components are described below:

1. Jobs Activity Tab - navigates to the Requests Logs screen
2. Show X entries drop box – defines the number of entries shown per page (10, 25, 50, or 100)
3. Time based filtering dropdown – provides time framed data filtering (such as: Today, Last Month, Custom Dates, etc.)
4. Search – Free text search tool. If the arrow is clicked, will provide header search options.

2.10.4 System Logs

Provides system related logs and information including detailed error description.



#	Component	Level	Token	Job ID	User	Application	GS Key	Message	Time Stamp
1	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[116] DirectOperations.UploadBatchFile() -->Error: 1007 Upload operation failed. EndPoint: net.tcp://192.168.108.71:15810/GSDA_API StackTrace: at Lib.Direct.ScanActions.Connect(Int32 percentFactor, Int32 maxQueue) at Lib.WcAPI.DirectOperations.UploadBatchFile(Byte[] fileBytes, String fileName, String gsKey, String appName, String libPassword, Int64 fileSize, Int16 profileID, Boolean isToScan, String jobId, JobInfoRequestsMonitor jobInfo, Int32 version), Source: Lib.Direct.Actions, Message: 5/20/2021 5:03:01 PM Scanner Engine choked - Engine 0: net.tcp://192.168.108.71:15810/GSDA_API, QueryResponseInfoFromEndpointsArray Count: 1 FreeBytes: 0, TotalBytes: 0. Make sure DOMAIN USERNAME and PASSWORD are valid!	5/20/2021 5:03:01 PM
2	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[054] DirectOperations.UploadBatchFile() -->Error: 5141, Failed to get engines endpoints return empty collection, for AppId: 1, GSKey: 575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	5/12/2021 9:57:04 AM
3	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[054] DirectOperations.UploadBatchFile() -->Error: 5141, Failed to get engines endpoints return empty collection, for AppId: 1, GSKey: 575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	5/12/2021 9:57:04 AM
4	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[054] DirectOperations.UploadBatchFile() -->Error: 5141, Failed to get engines endpoints return empty collection, for AppId: 1, GSKey: 575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	5/12/2021 9:57:04 AM
5	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[054] DirectOperations.UploadBatchFile() -->Error: 5141, Failed to get engines endpoints return empty collection, for AppId: 1, GSKey: 575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	5/12/2021 9:57:04 AM
6	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[054] DirectOperations.UploadBatchFile() -->Error: 5141, Failed to get engines endpoints return empty collection, for AppId: 1, GSKey: 575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	5/12/2021 9:57:04 AM
7	IIS REST API Service	Error			demoApp		575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	[054] DirectOperations.UploadBatchFile() -->Error: 5141, Failed to get engines endpoints return empty collection, for AppId: 1, GSKey: 575cc2e3-7b7c-474f-9ca2-e56d143ab9a0	5/12/2021 9:57:04 AM

Figure 23: System Logs Tab Overview

System Logs Tab components are described below:

1. System Tab - navigates to the Requests Logs screen
2. Export REST Admin Site Logs button – Exports an archive file containing Site related logs. The user will be prompted to define a password for the archive (Optional).
3. Export REST Admin Service Logs button – Exports an archive file containing Service-related logs. The user will be prompted to define a password for the archive (Optional).
4. Show X entries drop box – defines the number of entries shown per page (10, 25, 50, or 100)
5. Time based filtering dropdown – provides time framed data filtering (such as: Today, Last Month, Custom Dates, etc.)
6. Search – Free text search tool.

Chapter 3 - Quotas based system

3.1 Intro

GS REST API Service provides the Administrator to set Data upload and processing monthly quotas and attach these to a fixed pricing list provided by the server. In this context, system administrator can define:

1. Monthly Data flow limitation (5GB – 50GB)
2. Max file size per single upload (15MB-500MB)
3. Allocating pricing according to a relevant quota size (600\$-5000\$)

Quota pricing is set in gradual rising levels. In case the monthly level was reached, the administrator will receive an appropriate notification and the pricing will progress to the next level.

Quotas are applied to the Company entity, but there is an option to add sub-quotas attached to any Application entity defined to Quota based Company.

3.2 Quotas Basic Configuration

To configure the system to a Quota Based go to Settings -> Basic Configuration -> Quotas

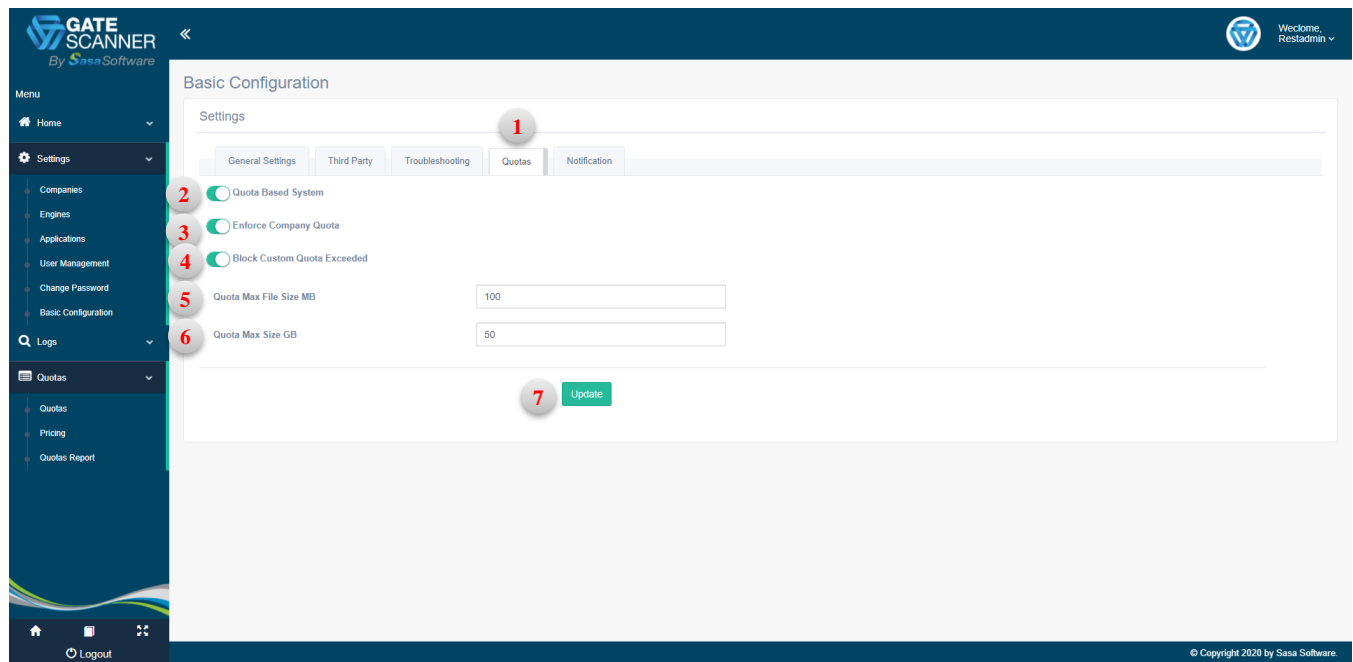


Figure 24: Quotas Configuration Tab Overview

Quotas Configuration Tab components are described below:

1. Quotas Tab - navigates to the Quotas screen
2. Quota Based System toggle – if true, enables Quotas on the server. Once enabled, Administration interface will reveal a Quota related Tab and a Quota related monitor under the Home Tab
3. Enforce Company Quota toggle – if true, will enforce every Company on the server to be Quota associated
4. Block Custom Quota Exceeded toggle – if true, any custom (non default pricing) quota will be blocked on exceeding instead of continuing to a next pricing level
5. Quota Max File size – Allows to change the default Max File Size (For Custom Quota)
6. Quota Max size - Allows to change the default Max Quota Size (For Custom Quota)
7. Update button – Update the input settings on the server

3.3 Quotas Related Notifications

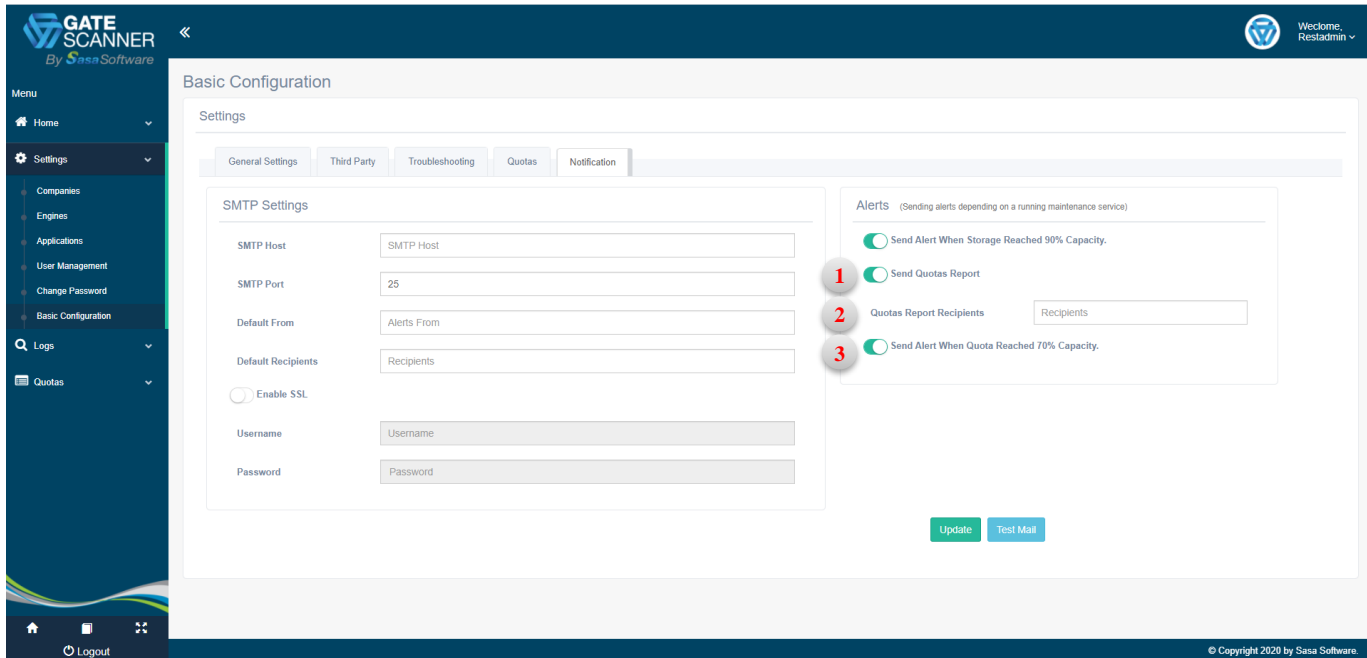


Figure 25: Quotas Related Notifications Overview

Quotas Notifications components are described below:

1. Send Quotas Report toggle – if true, will send Quotas Report to a designated recipient address every 1st day of the month.
2. Quotas Report Recipients textbox – Administrator will input email addresses of Quota Reports Recipients
3. Send Alert When Quota Reached 70% Capacity toggle – if true, will send an alert notification to a designated recipient email address

3.4 Create New Quota

To create a new Quota, there should be at least one Company entity present at the system.

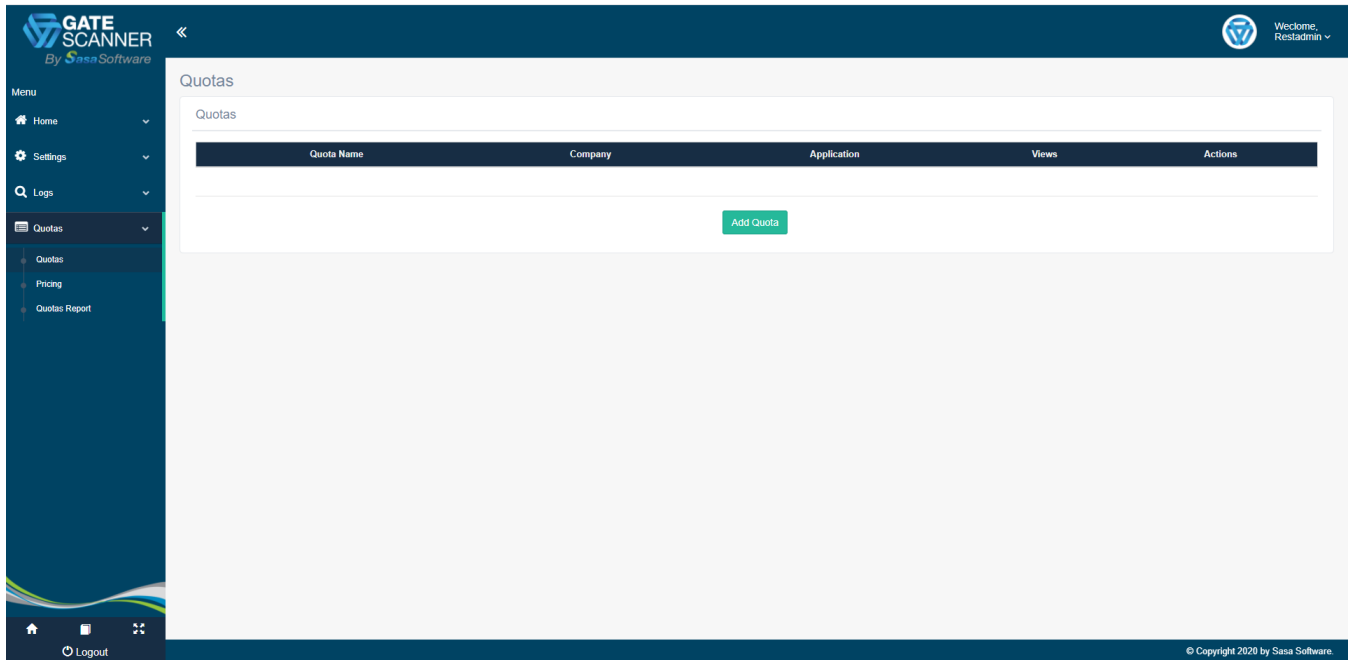


Figure 26: Create Quota Screen

To create a new Quota click Add Quota button

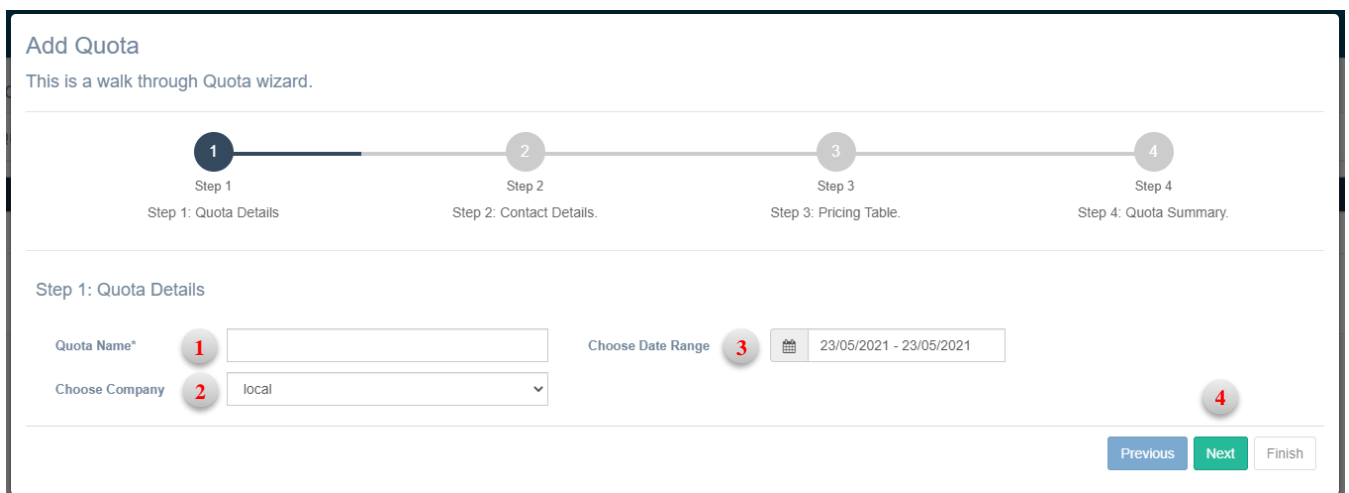


Figure 27: Create Quota Step 1

1. Input a desired Quota Name

2. Choose Company the Quota will be associated to
3. Choose Date Range – Defines the Start and the End Dates for the defined Quota
4. Click Next button

Add Quota
This is a walk through Quota wizard.

Step 1: Quota Details Step 2: Contact Details. Step 3: Pricing Table. Step 4: Quota Summary.

Step 2: Contact Details

demofirstname demolastname

demo@email.com 999999999999

Previous Next Finish

Figure 28: Create Quota Step 2

Step 2 allows the user to input Company Contact Details. If these Details were added at the stage of Company Creation, they will be presented at current stage.

Add Quota
 This is a walk through Quota wizard.

Progress: 1 (Step 1: Quota Details) | 2 (Step 2: Contact Details) | 3 (Step 3: Pricing Table) | 4 (Step 4: Quota Summary)

Step 3: Pricing Table

<input type="checkbox"/>	Upto 50GB 25MB Full CDR	Monthly	50GB	25MB	Full CDR	\$3500
<input type="checkbox"/>	Upto 50GB 75MB Full CDR	Monthly	50GB	75MB	Full CDR	\$3750
<input type="checkbox"/>	Upto 30GB 500MB Full CDR	Monthly	30GB	500MB	Full CDR	\$3900
<input type="checkbox"/>	Upto 50GB 100MB Full CDR	Monthly	50GB	100MB	Full CDR	\$4000
<input type="checkbox"/>	Upto 40GB 500MB Full CDR	Monthly	40GB	500MB	Full CDR	\$4400
<input checked="" type="checkbox"/>	Upto 50GB 500MB Full CDR	Monthly	50GB	500MB	Full CDR	\$5000

Buttons: Previous | Next | Finish

Figure 29: Create Quota Step 3

Choose the pricing for the created Quota.

Add Quota
 This is a walk through Quota wizard.

Progress: 1 (Step 1: Quota Details) | 2 (Step 2: Contact Details) | 3 (Step 3: Pricing Table) | 4 (Step 4: Quota Summary)

Step 4: Quota Summary

Quota DemoQuota <small>Details</small>	Pricing \$5000 <small>Monthly</small>
<ul style="list-style-type: none"> ✓ Application: demoCompany ✓ Date Range: 23/05/2021 - 30/05/2021 ✓ Contact Person: demofirstname demolastname ✓ Contact Person Email: demo@email.com ✓ Contact Person Phone: 999999999999 	<ul style="list-style-type: none"> ✓ Quota Upto 50GB 500MB Full CDR ✓ 50GB Monthly Quota Size ✓ 500MB Max File Size ✓ Scan Level Full CDR ✓ Monthly Payment \$5000

Buttons: Previous | Next | Finish

Figure 30: Summary Page

Once the Quota was created, it will be listed at the Quotas Tab:

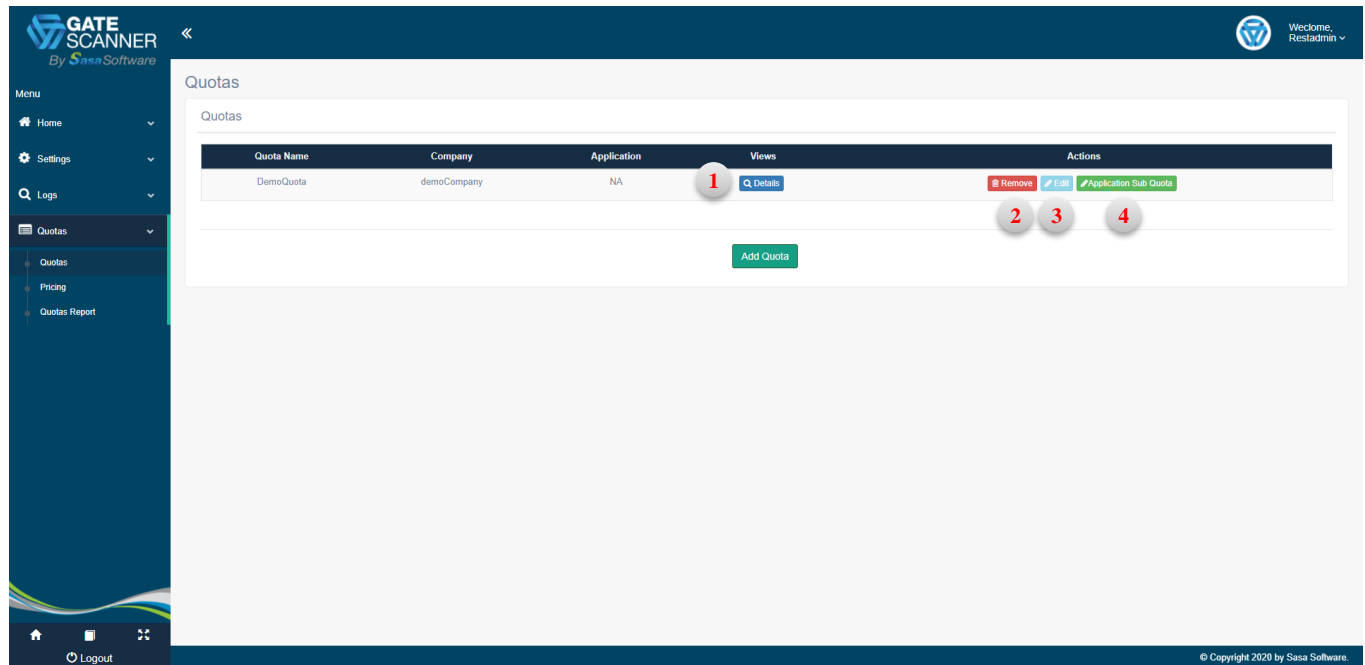
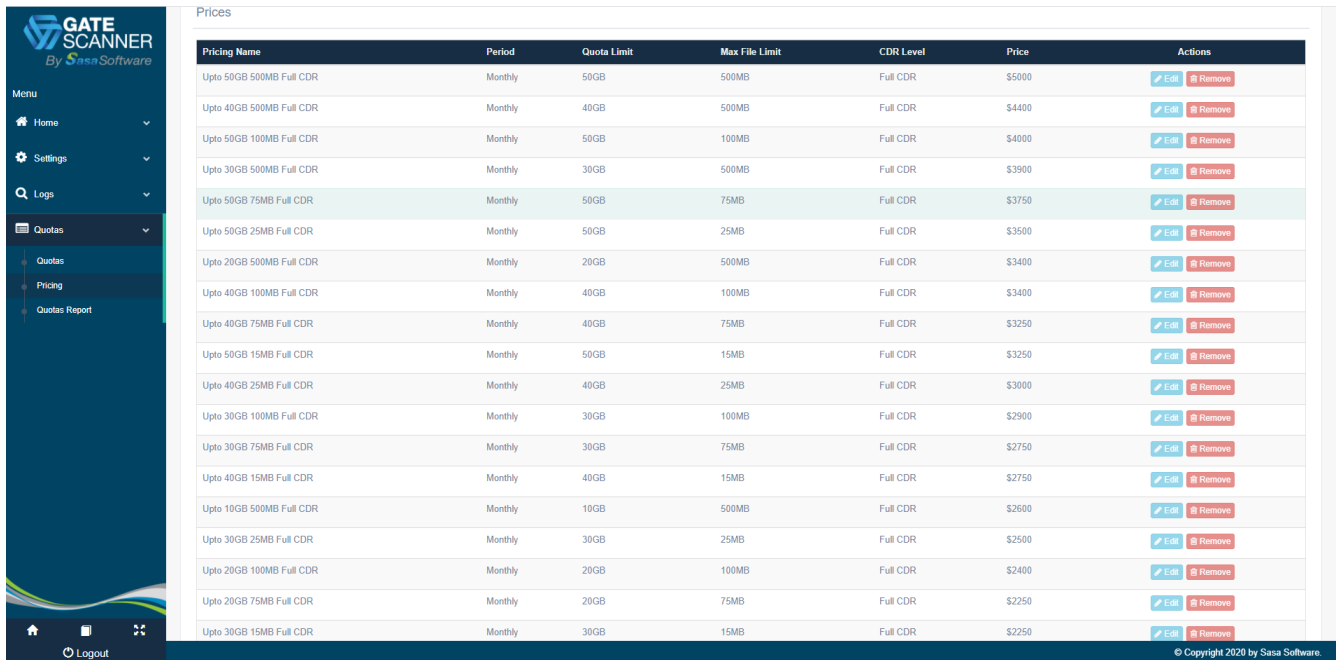


Figure 31: Quotas Page Overview

Quotas Notifications components are described below:

1. Details button – on click, will present the details about the selected Quota
2. Remove button – on click, will delete the selected Quota
3. Edit button (disabled) – will be removed at 4.4.1.1 version of GS REST API
4. Application Sub Quota button – on click, will pop up a Sub Quota creation wizard. The flow of the wizard is identical to the Company Quota wizard with the following differences:
 - a. Company is already defined – user will choose the Application for the Quota
 - b. Pricing will be equal or less of the Company Pricing
 - c. Dates context of Sub Quota can not exceed the Dates of it`s parent Company Quota

3.5 Pricing List Tab



Pricing Name	Period	Quota Limit	Max File Limit	CDR Level	Price	Actions
Upto 50GB 500MB Full CDR	Monthly	50GB	500MB	Full CDR	\$5000	Edit Remove
Upto 40GB 500MB Full CDR	Monthly	40GB	500MB	Full CDR	\$4400	Edit Remove
Upto 50GB 100MB Full CDR	Monthly	50GB	100MB	Full CDR	\$4000	Edit Remove
Upto 30GB 500MB Full CDR	Monthly	30GB	500MB	Full CDR	\$3900	Edit Remove
Upto 50GB 75MB Full CDR	Monthly	50GB	75MB	Full CDR	\$3750	Edit Remove
Upto 50GB 25MB Full CDR	Monthly	50GB	25MB	Full CDR	\$3500	Edit Remove
Upto 20GB 500MB Full CDR	Monthly	20GB	500MB	Full CDR	\$3400	Edit Remove
Upto 40GB 100MB Full CDR	Monthly	40GB	100MB	Full CDR	\$3400	Edit Remove
Upto 40GB 75MB Full CDR	Monthly	40GB	75MB	Full CDR	\$3250	Edit Remove
Upto 50GB 15MB Full CDR	Monthly	50GB	15MB	Full CDR	\$3250	Edit Remove
Upto 40GB 25MB Full CDR	Monthly	40GB	25MB	Full CDR	\$3000	Edit Remove
Upto 30GB 100MB Full CDR	Monthly	30GB	100MB	Full CDR	\$2900	Edit Remove
Upto 30GB 75MB Full CDR	Monthly	30GB	75MB	Full CDR	\$2750	Edit Remove
Upto 40GB 15MB Full CDR	Monthly	40GB	15MB	Full CDR	\$2750	Edit Remove
Upto 10GB 500MB Full CDR	Monthly	10GB	500MB	Full CDR	\$2600	Edit Remove
Upto 30GB 25MB Full CDR	Monthly	30GB	25MB	Full CDR	\$2500	Edit Remove
Upto 20GB 100MB Full CDR	Monthly	20GB	100MB	Full CDR	\$2400	Edit Remove
Upto 20GB 75MB Full CDR	Monthly	20GB	75MB	Full CDR	\$2250	Edit Remove
Upto 30GB 15MB Full CDR	Monthly	30GB	15MB	Full CDR	\$2250	Edit Remove

Figure 32: Pricing List Tab

As for 4.4.1.0 Pricing List Tab is a read only page.

3.6 Quota Dashboard

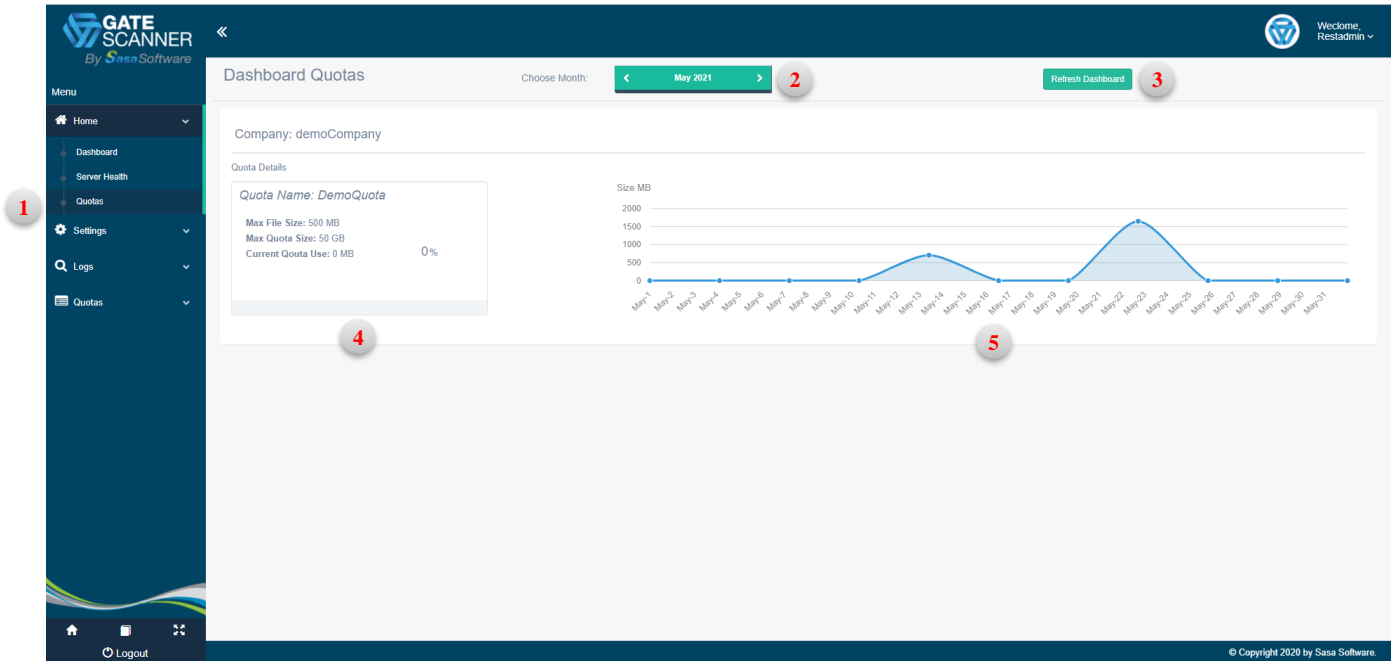


Figure 33: Quotas Dashboard Tab Overview

Quotas Dashboard Tab components are described below:

1. Quotas Tab – Navigates the user to the Quotas Dashboard Tab
2. Choose Month buttons – Allows user to change Month view of Quotas activities. Will present the relevant Month Information.
3. Refresh Dashboard button – on click, will Refresh the information to the timestamp of the click
4. Quota details window – Presents the Relevant Quota Parameters and current Usage
5. Graphical Presentation of the Quota Usage for the presented month by day

3.7 Quota Report

Provides overall information regarding cross Companies Quota usage of the set month.

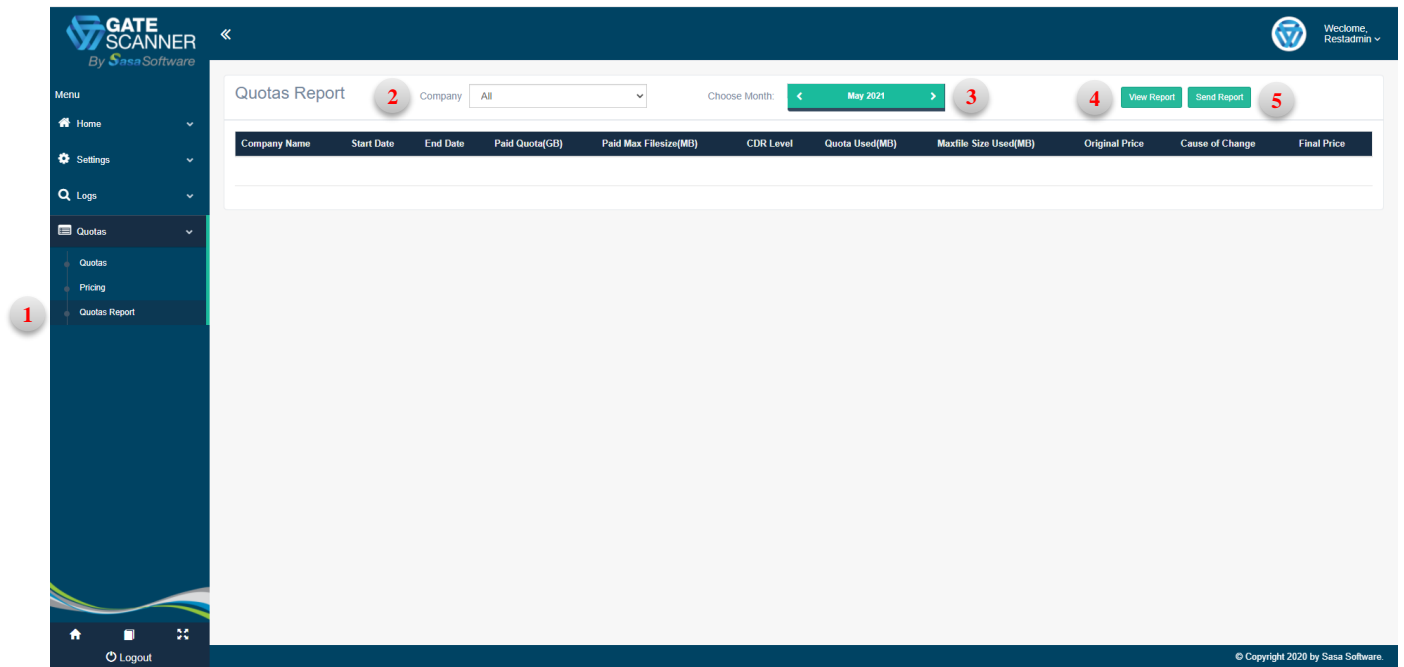


Figure 34: Quotas Report Tab Overview

Quotas Dashboard Tab components are described below:

1. Quotas Report Tab – Navigates the user to the Quotas Report Tab
2. Company dropdown – allows the user to choose a desired Company for the report
3. Choose Month buttons – Allows user to change Month view of Quotas activities. Will present the relevant Month Information.
4. View Report button – on click, will present the relevant data according to the chosen parameters
5. Send Report button – on click, will send email with the presented Data to a pre-configured recipient address (under Notifications Tab of the Basic Configuration)

End of Document