Sasa Software
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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:

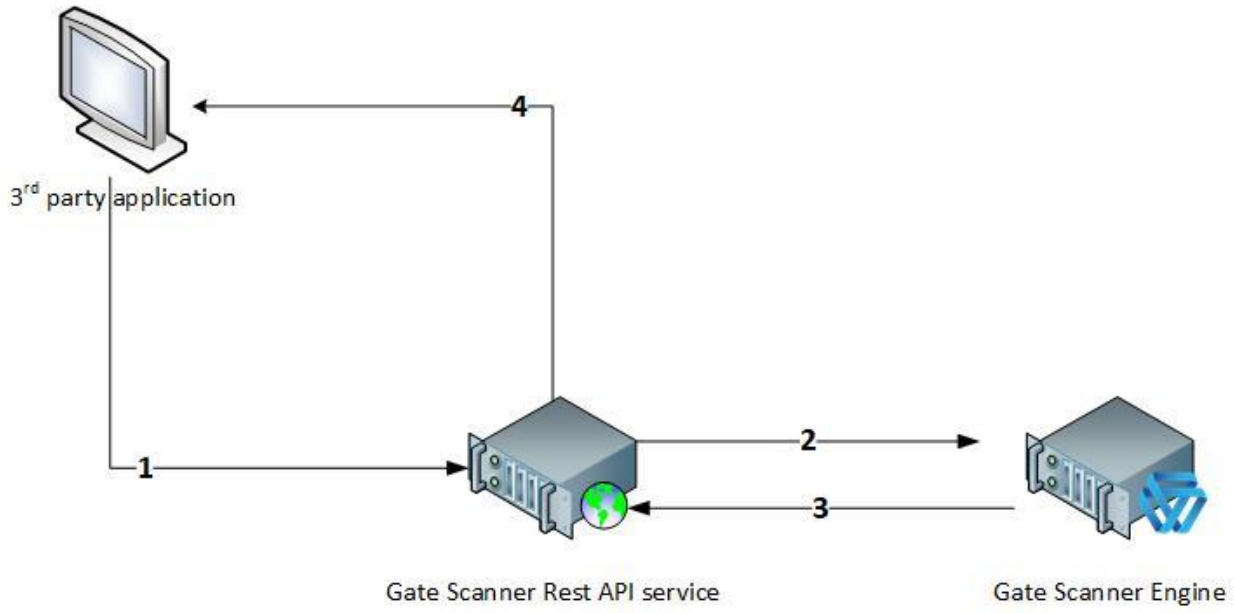

Figure 2: GateScanner Rest API flow

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:

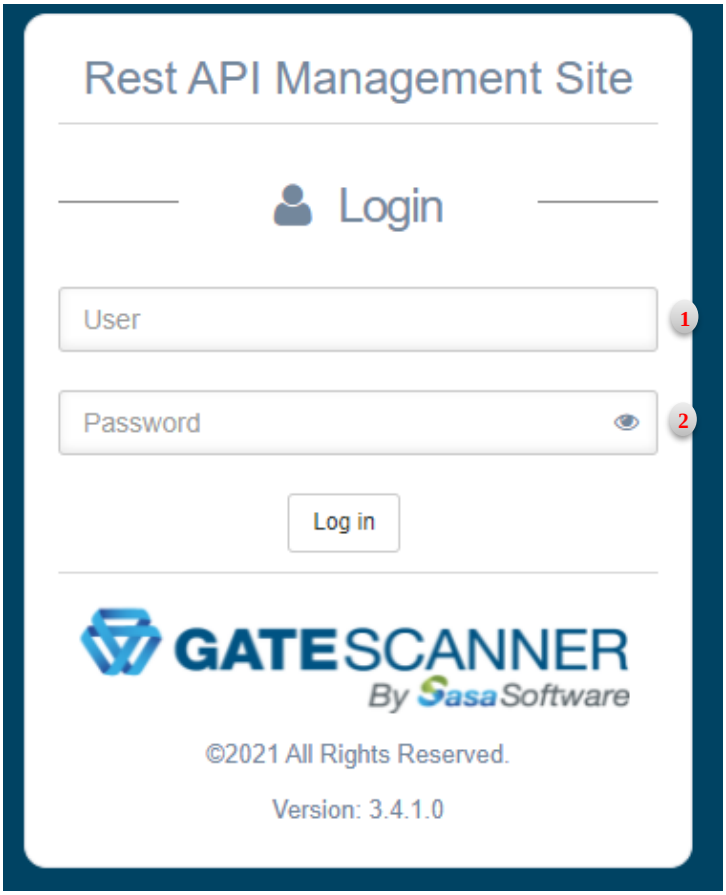

Figure 3: GS Rest API Web Client Login Screen

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

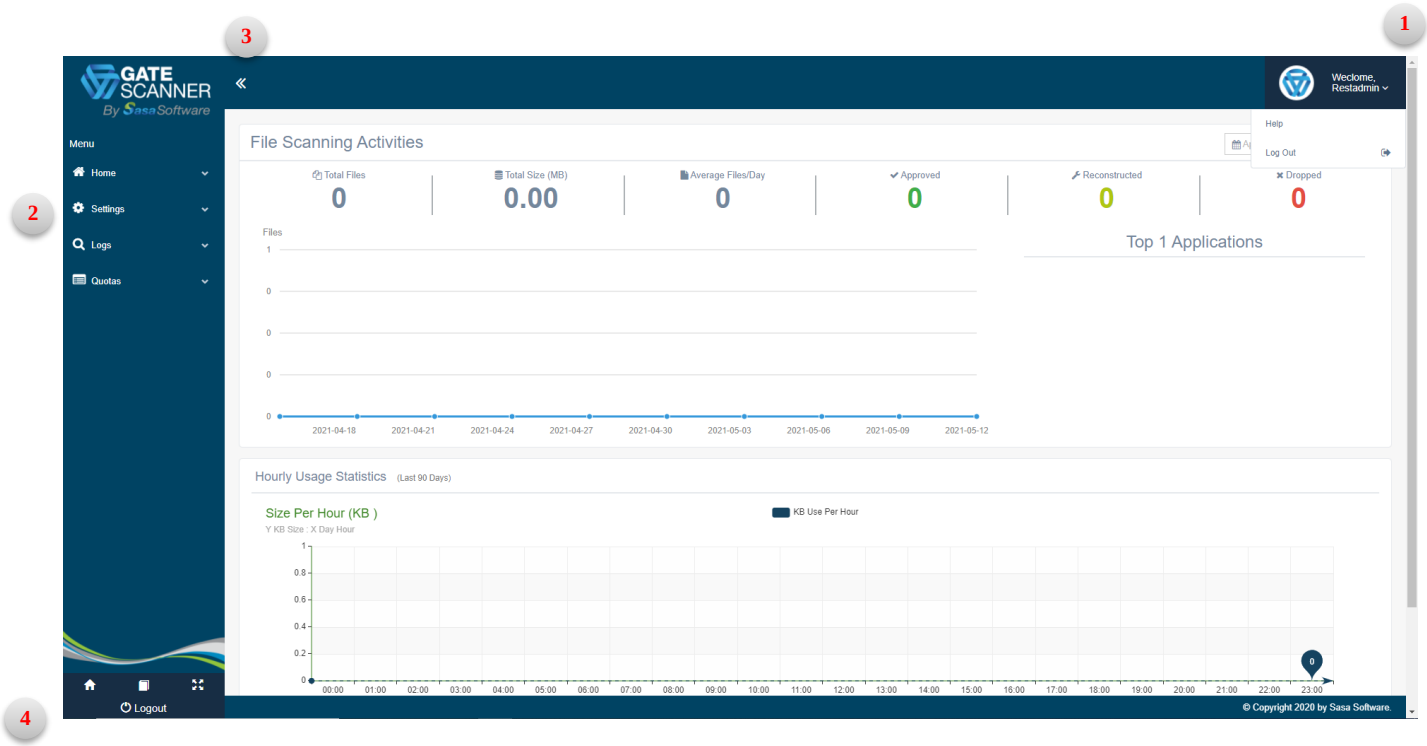

Figure 3: Home Page Overview

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

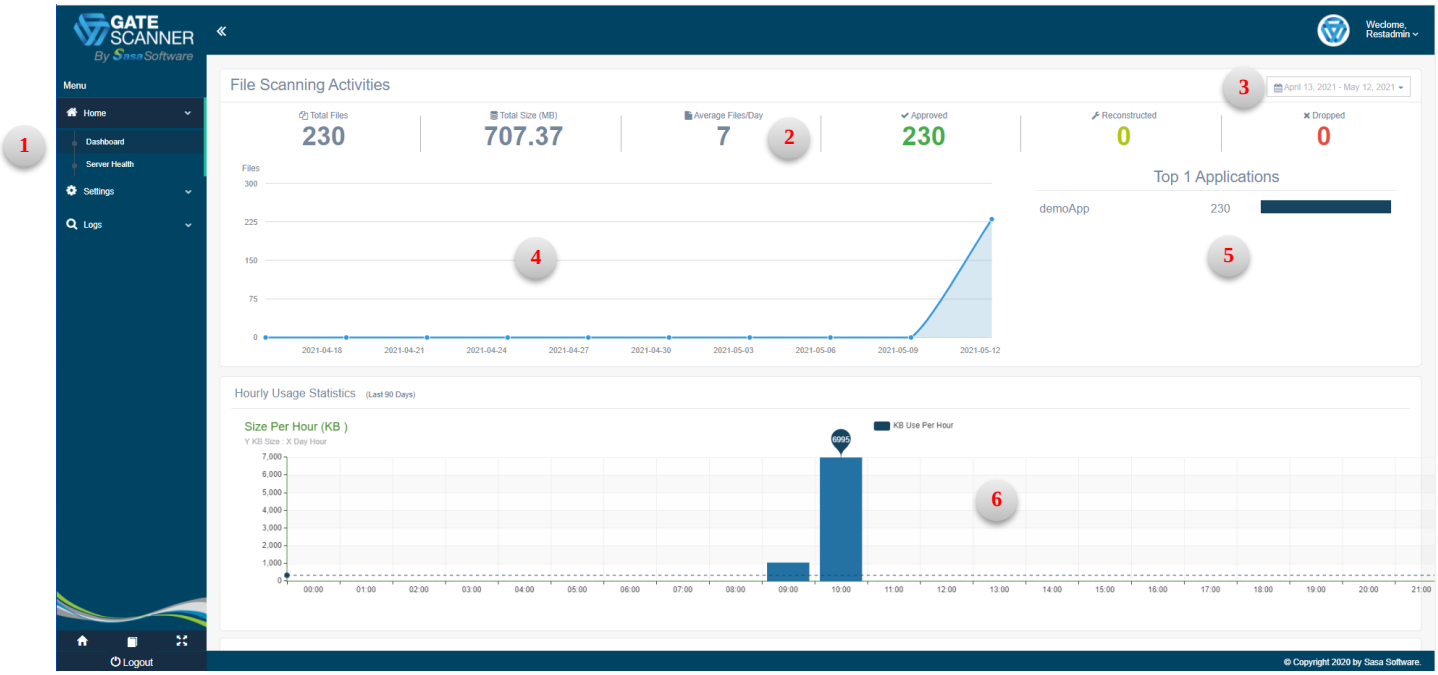

Figure 4: Dashboard Tab Overview

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

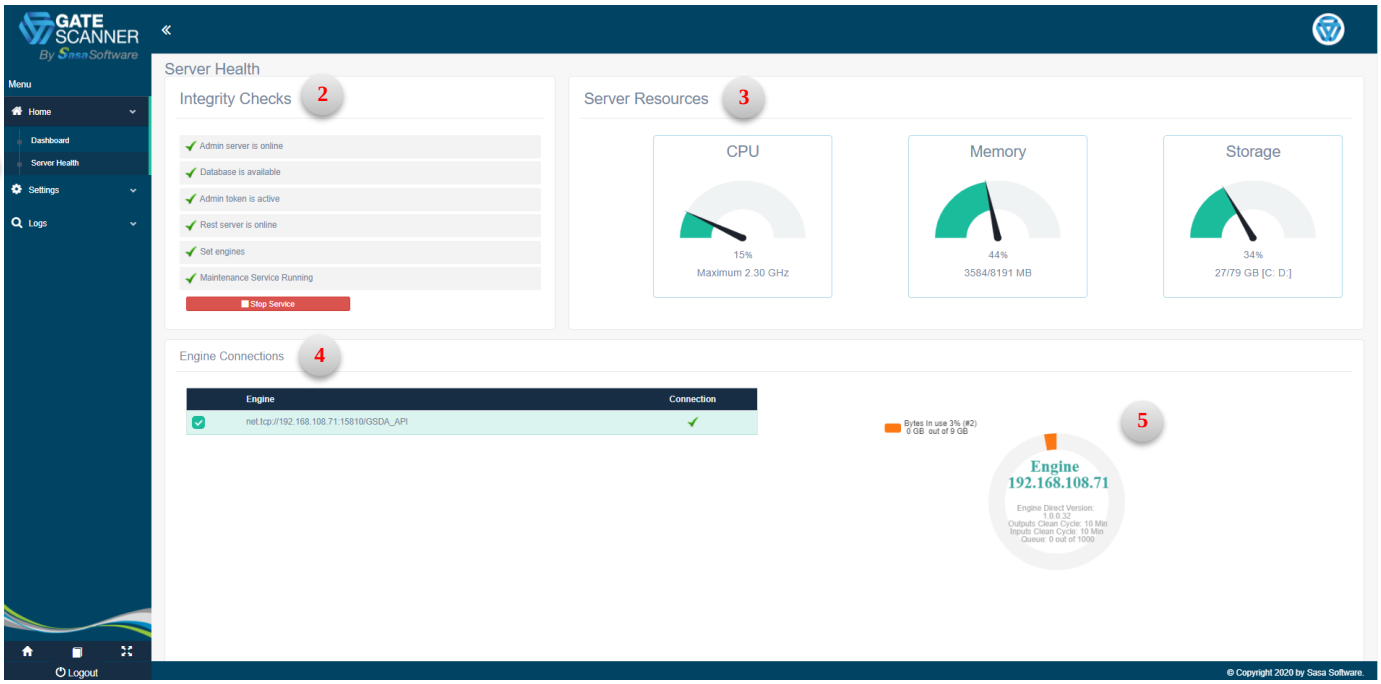

Figure 5: Server Health Tab Overview

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

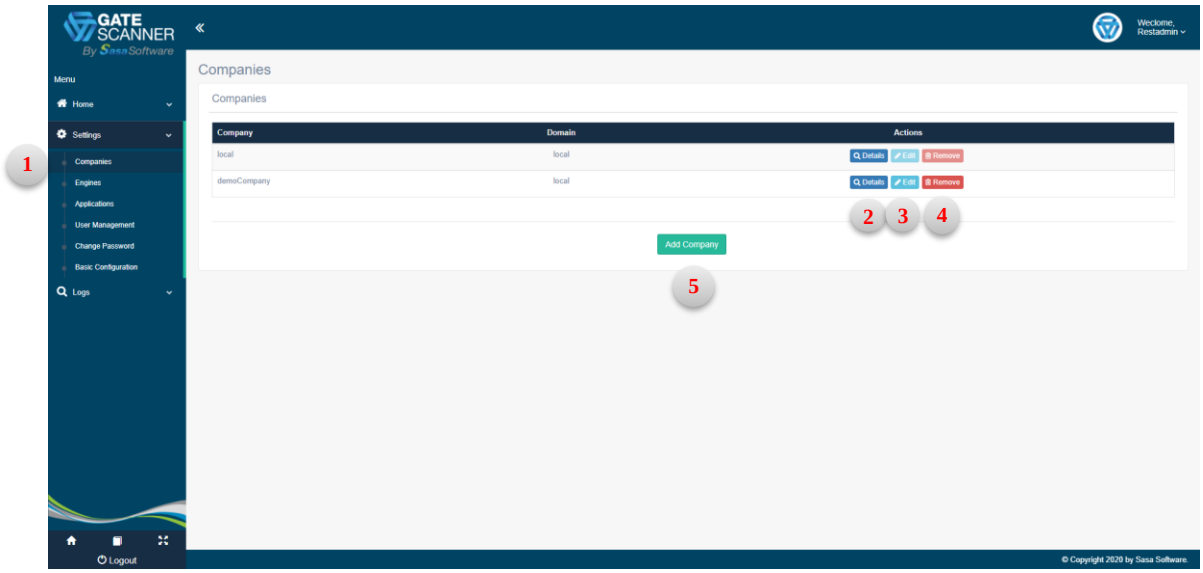

Figure 6: Companies Tab Overview

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.

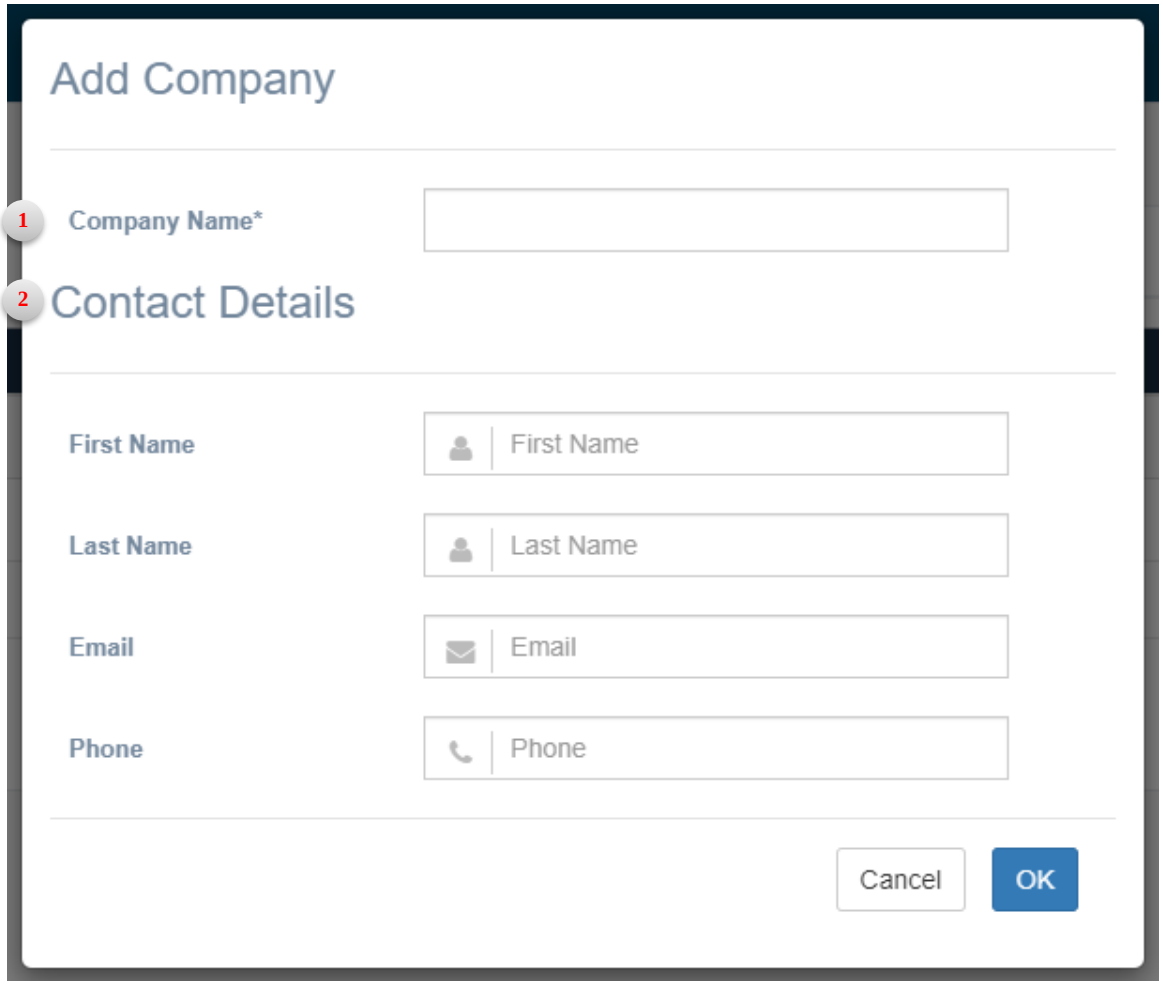

Figure 7: Create company window

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

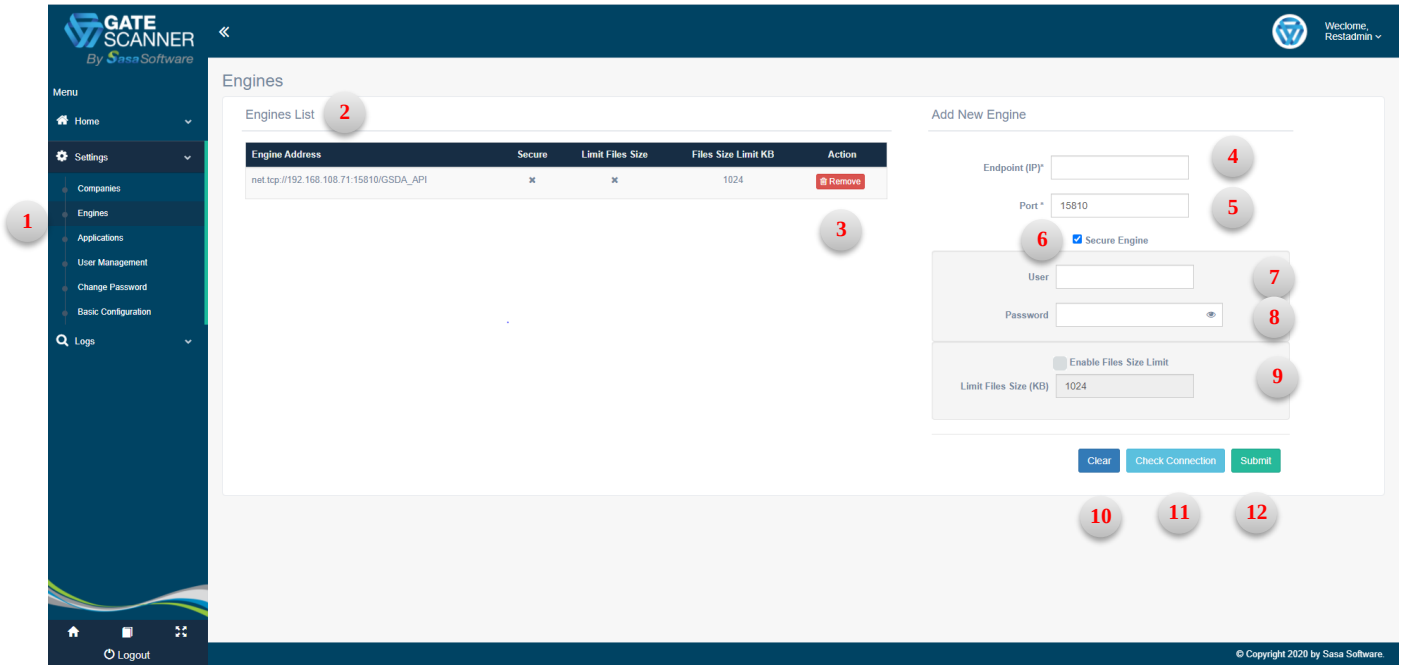

Figure 8: Engines Tab Overview

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

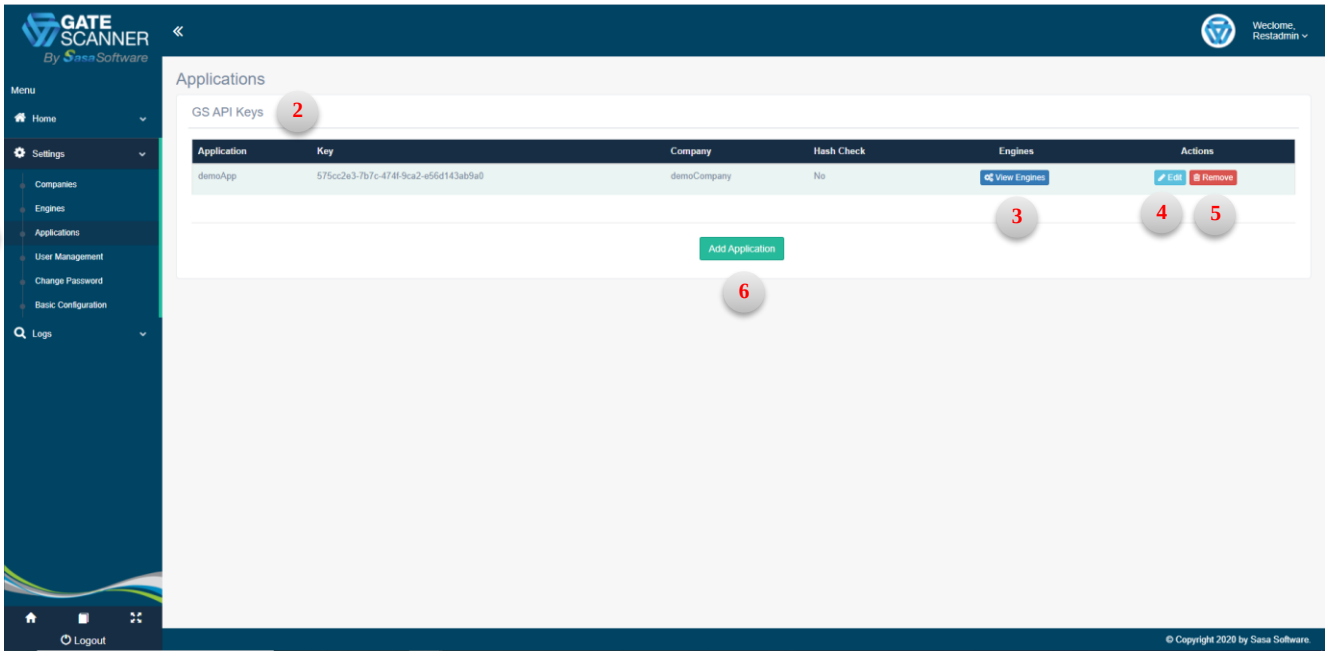

Figure 9: Applications Tab Overview

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

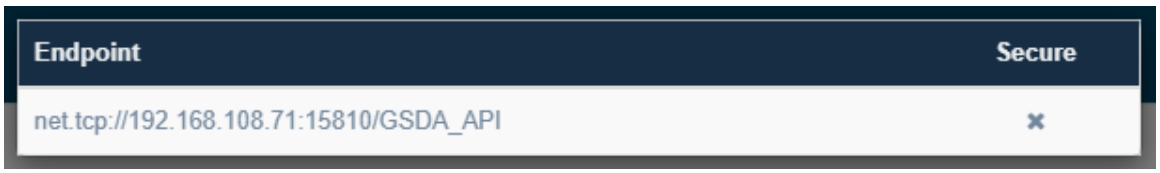

Figure 10: Engines attached window

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

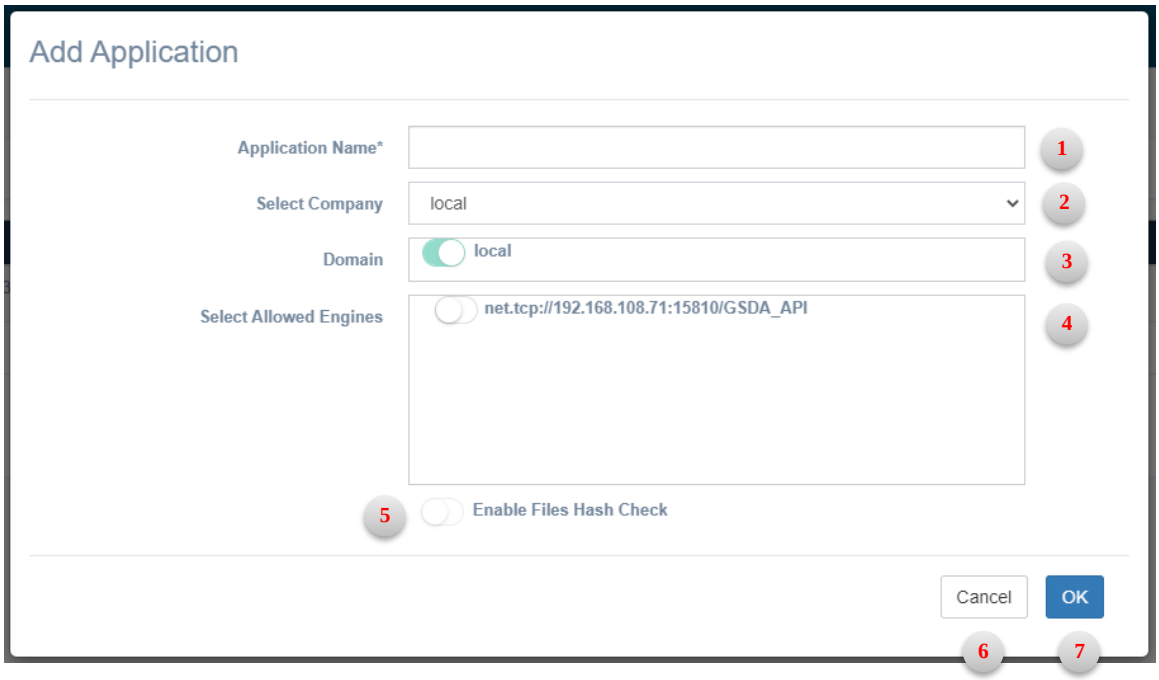

Figure 11: Application creation window

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

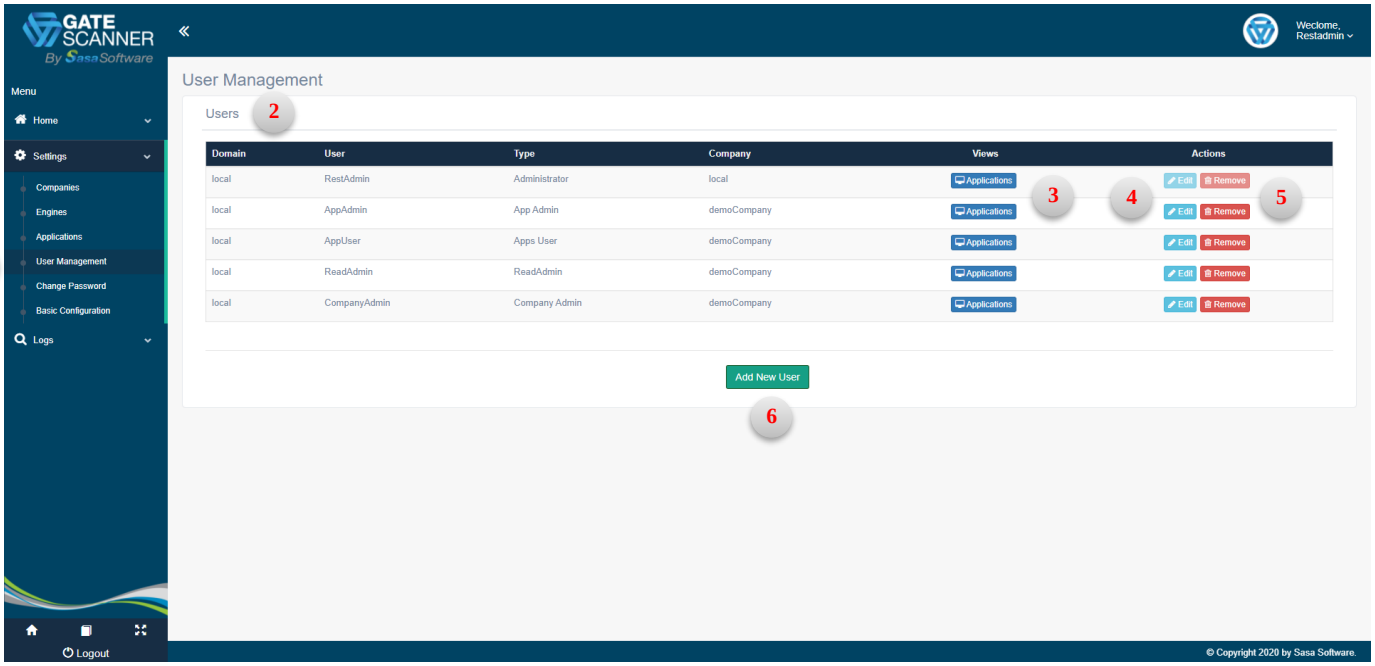

Figure 12: User Management Tab Overview

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

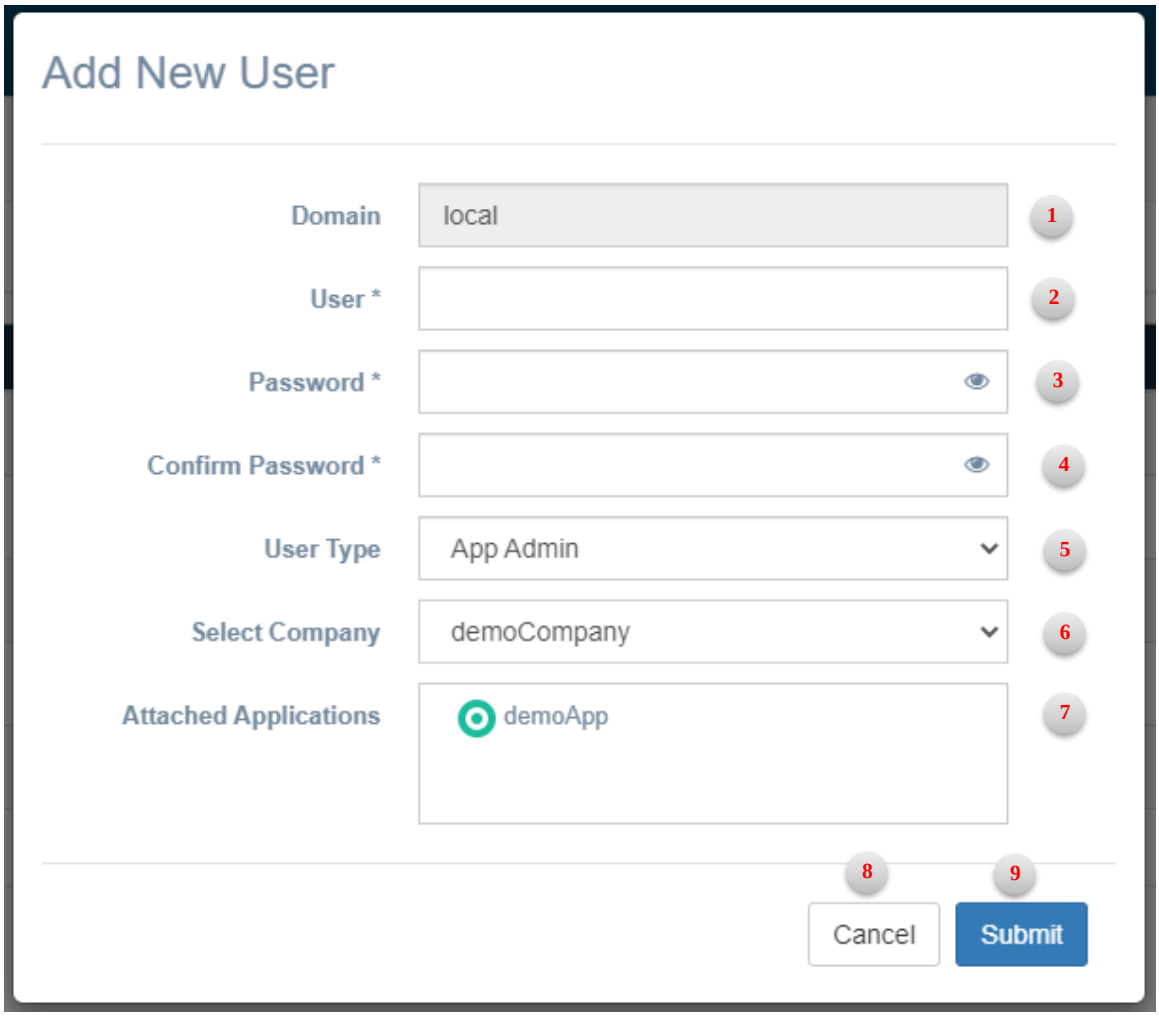

Figure 13: User Creation Window

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 dropbox – Picks User Role and permission (see below for more info).
6. Select Company dropbox – 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

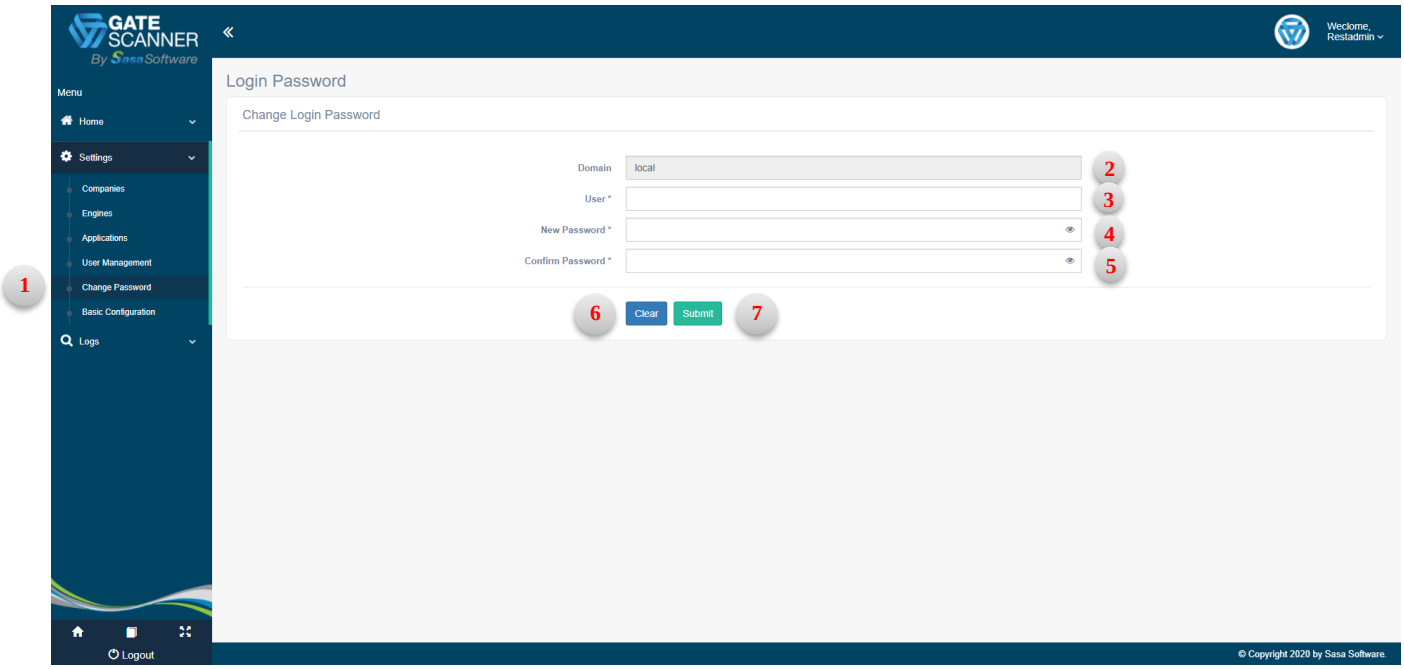

Figure 14: Change Password Tab Overview

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

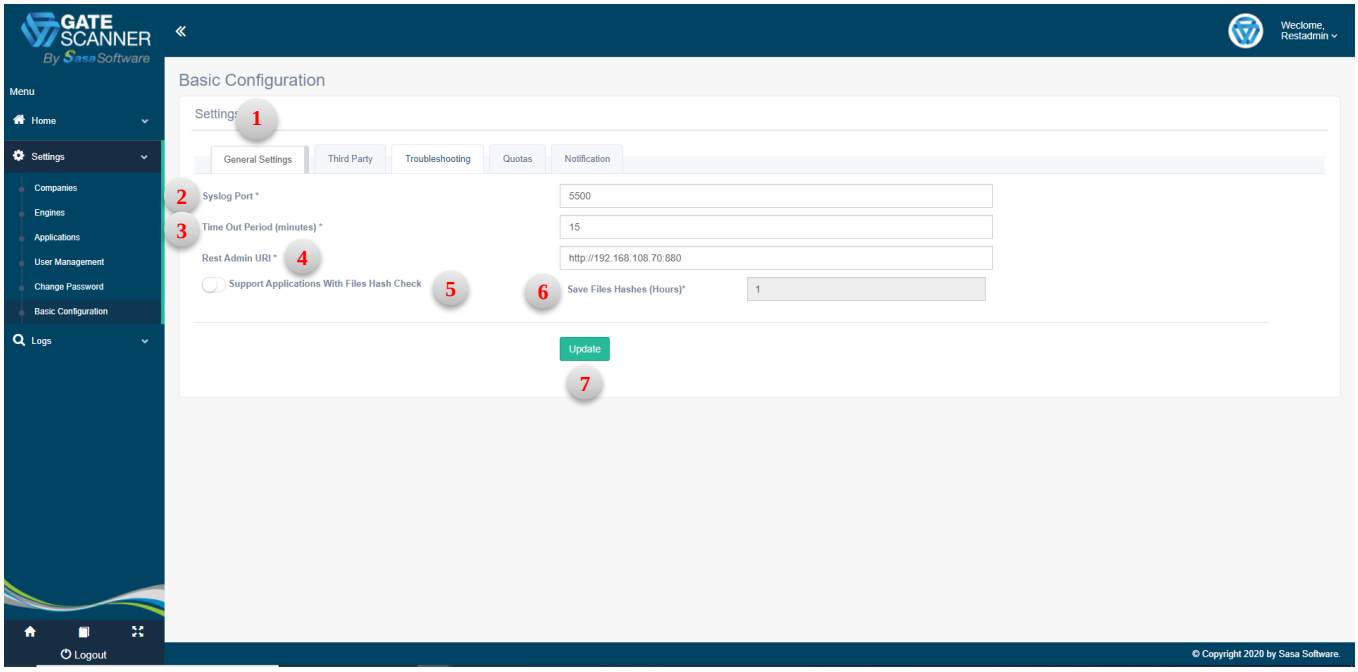

Figure 15: General Settings Tab Overview

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.

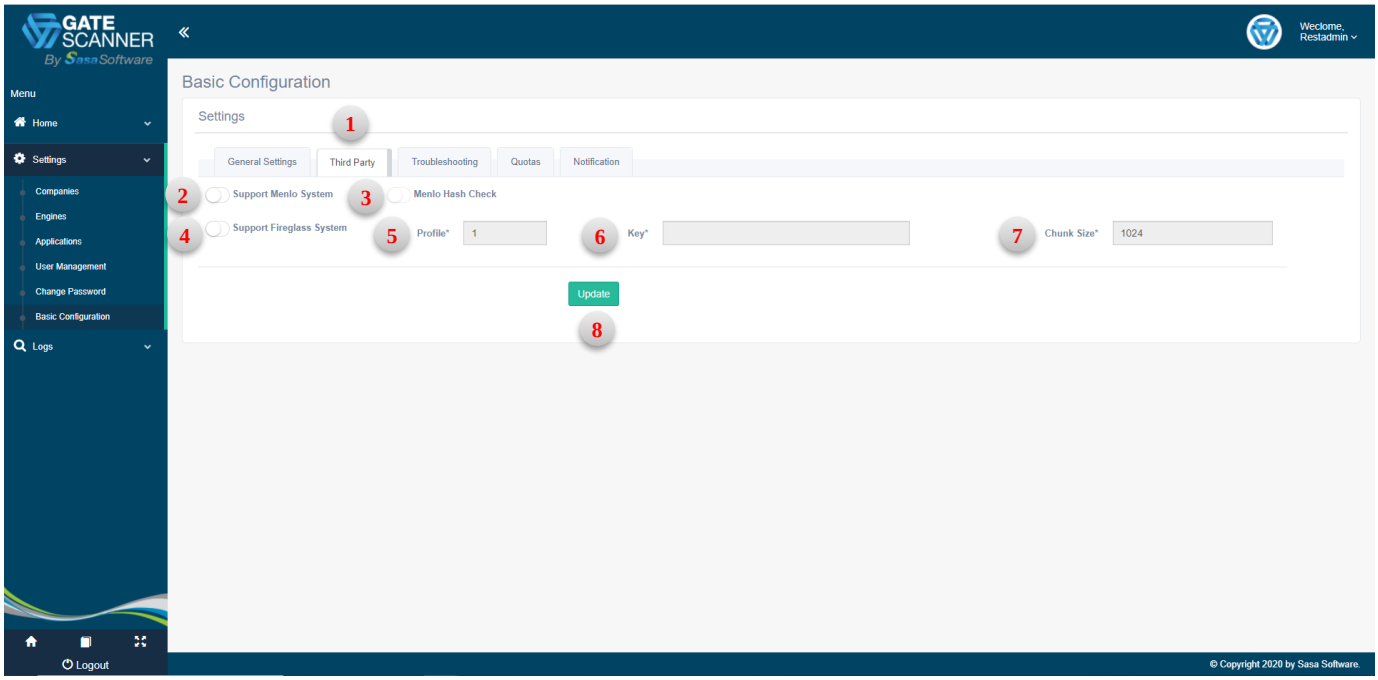

Figure 16: Third Party Tab Overview

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-chuncked (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

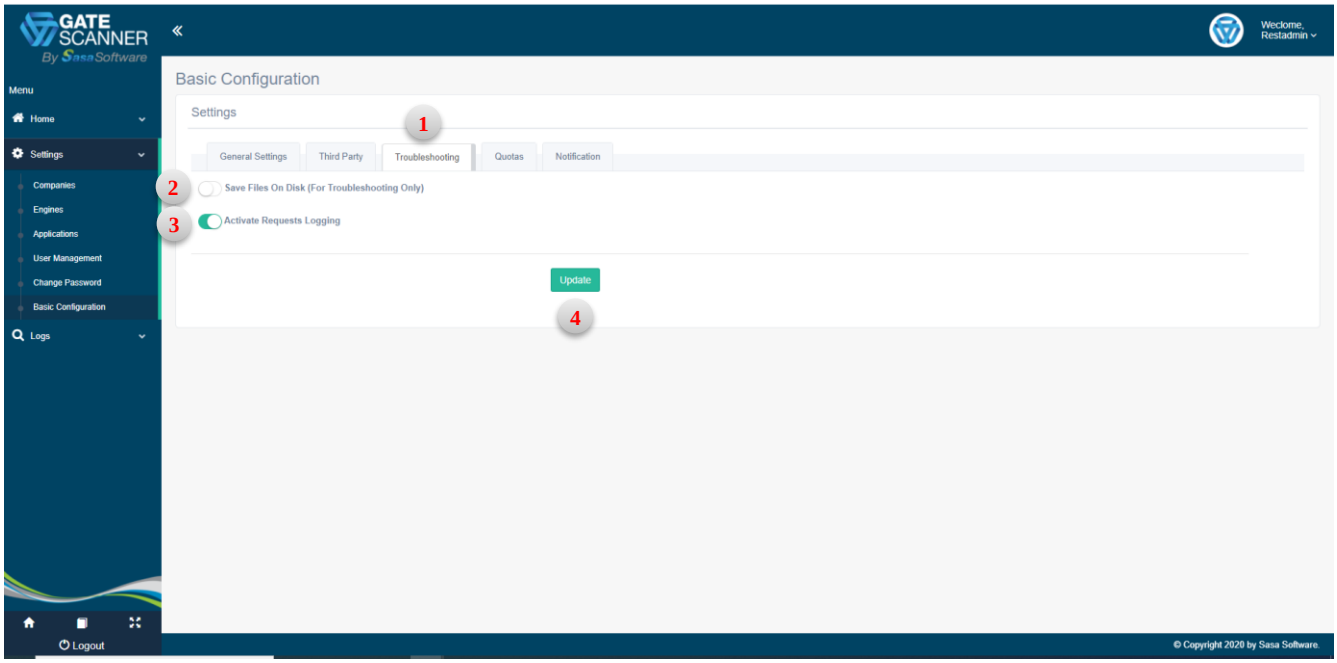

Figure 17: Troubleshooting Tab Overview

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

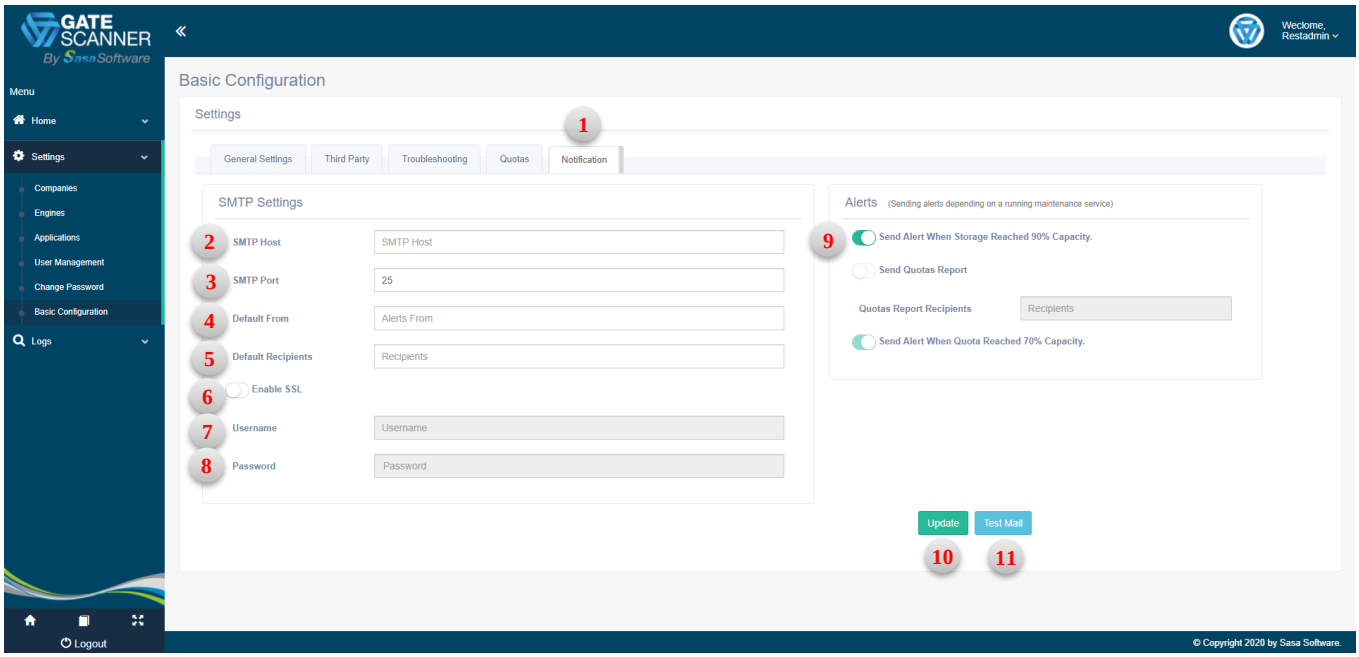

Figure 18: Notification Tab Overview

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.

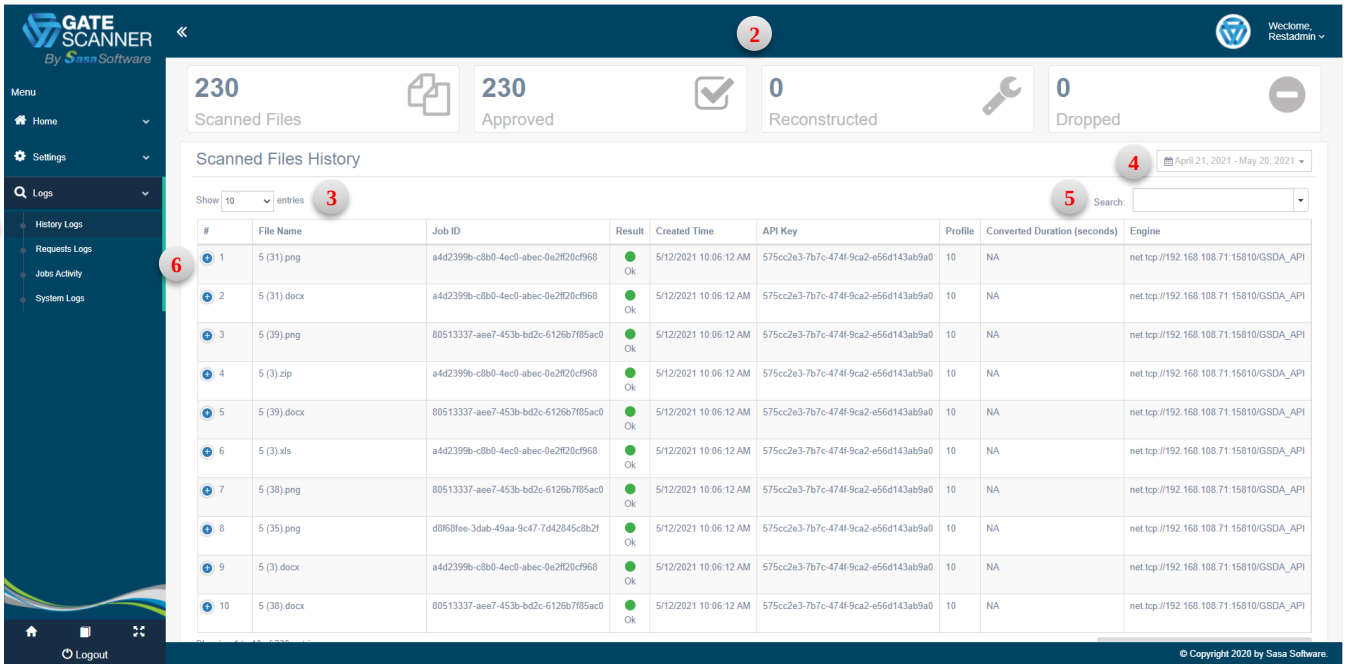

Figure 19: History Logs Tab Overview

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

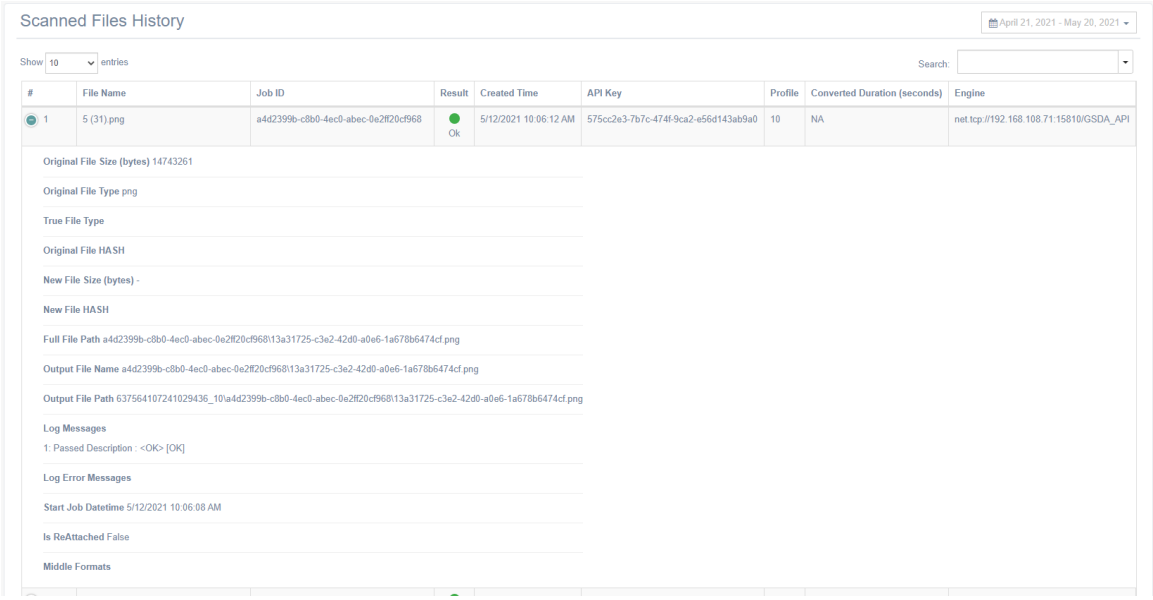

Figure 20: History Logs Expanded File View

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.

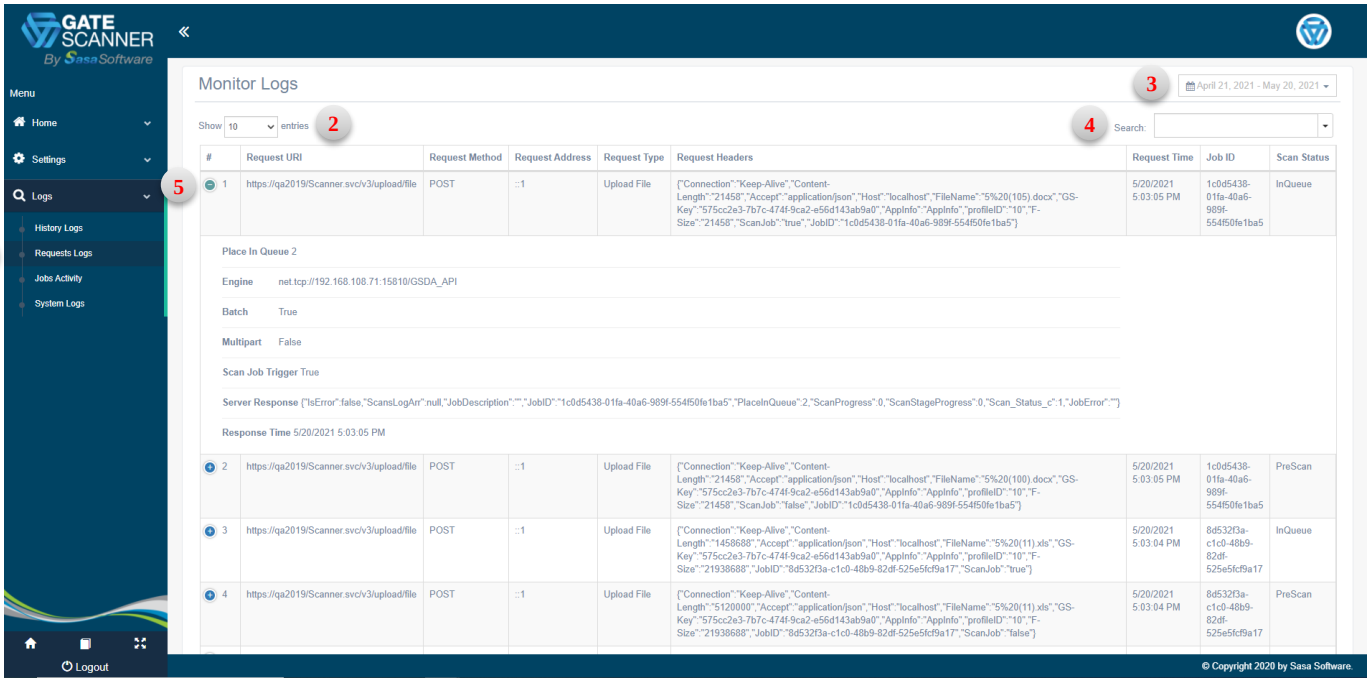

Figure 21: Requests Logs Tab Overview

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 dropbox – 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.

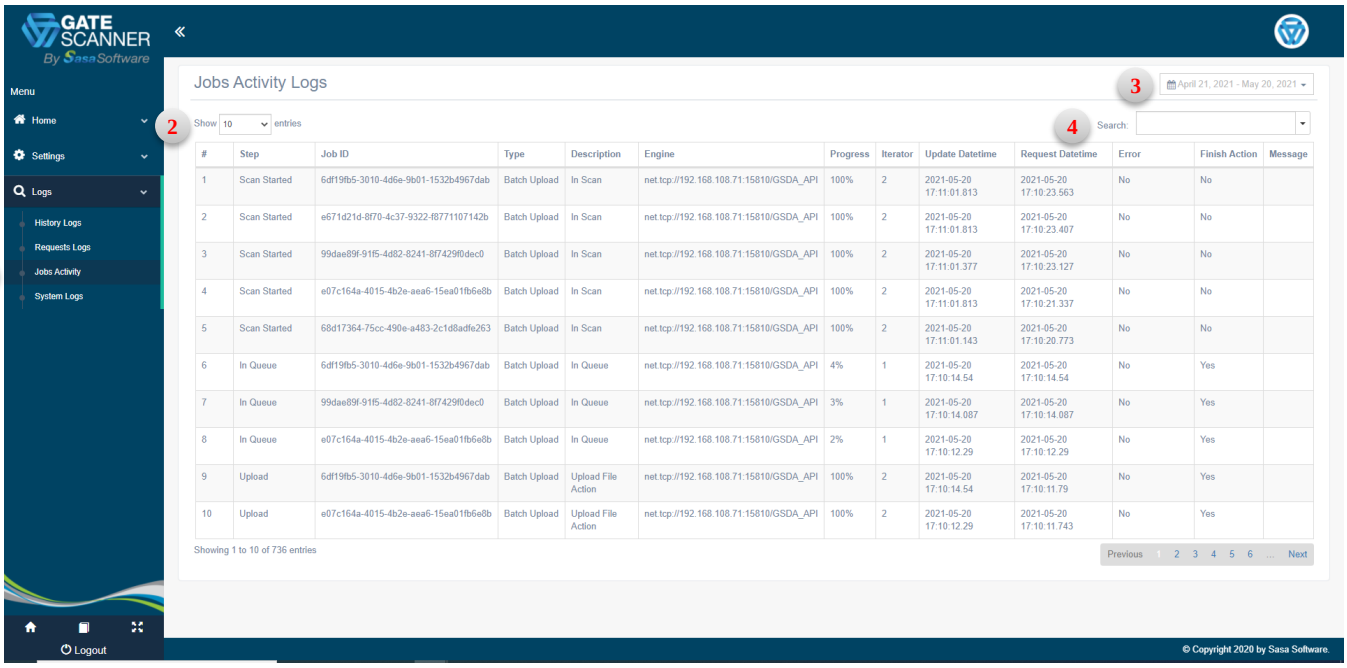

Figure 22: Jobs Activity Logs Tab Overview

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 dropbox – 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.

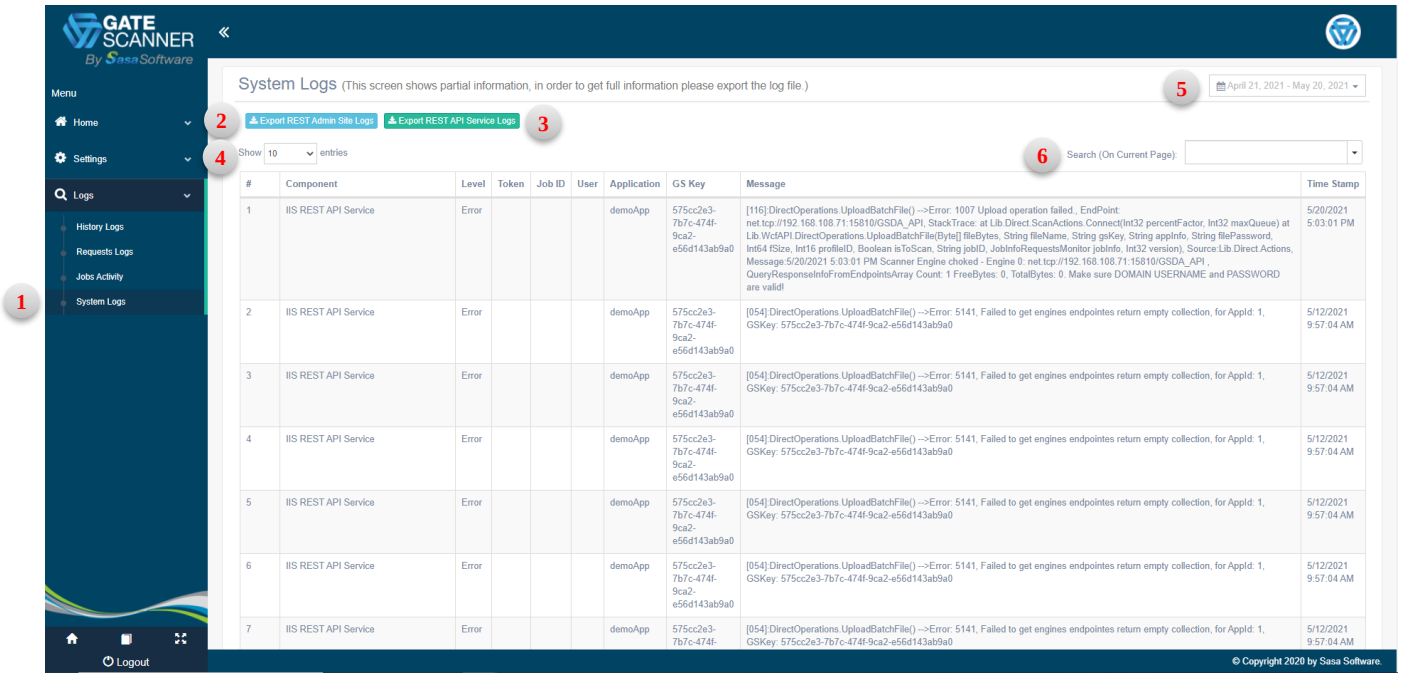

Figure 23: System Logs Tab Overview

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 dropbox – 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

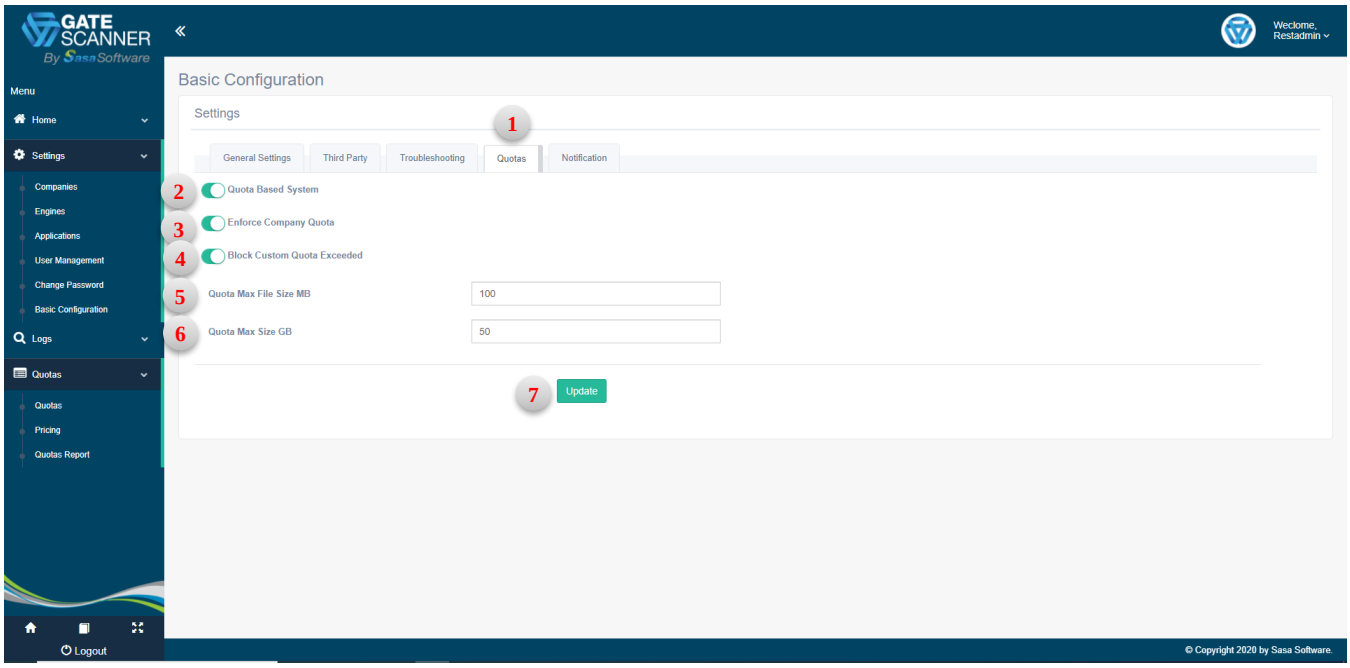

Figure 24: Quotas Configuration Tab Overview

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 assosiated

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

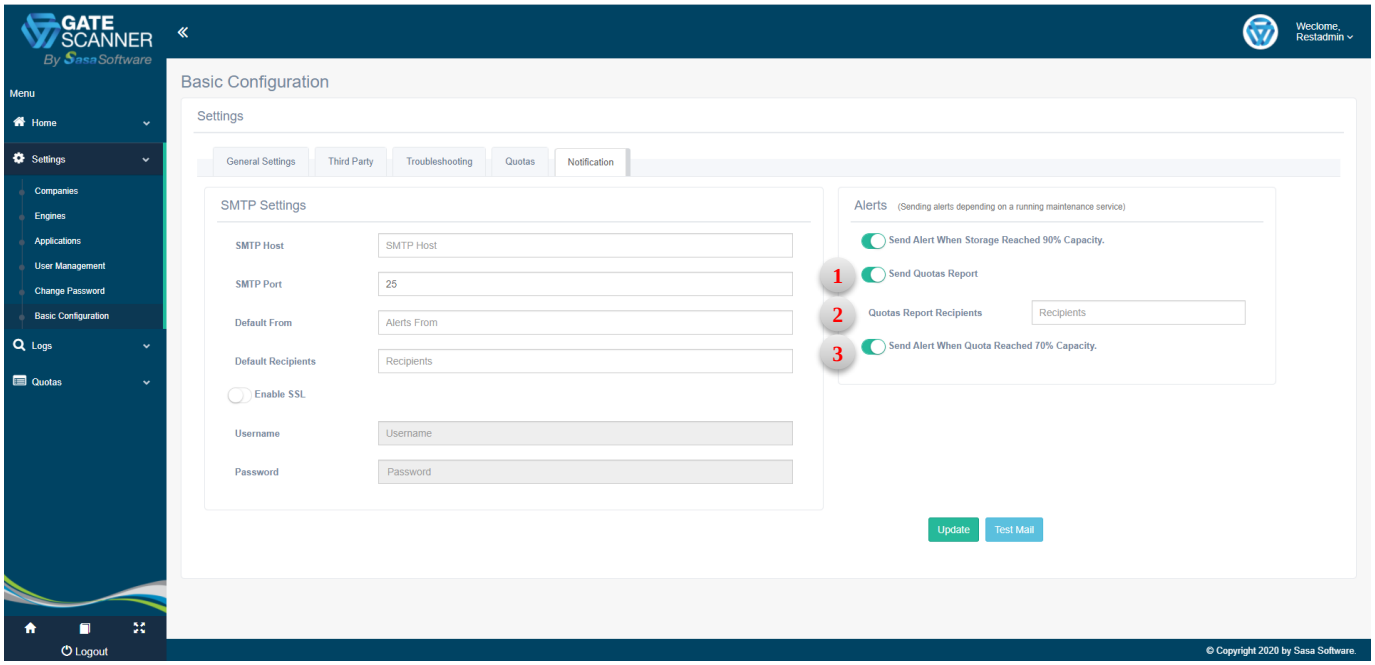

Figure 25: Quotas Related Notifications Overview

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.

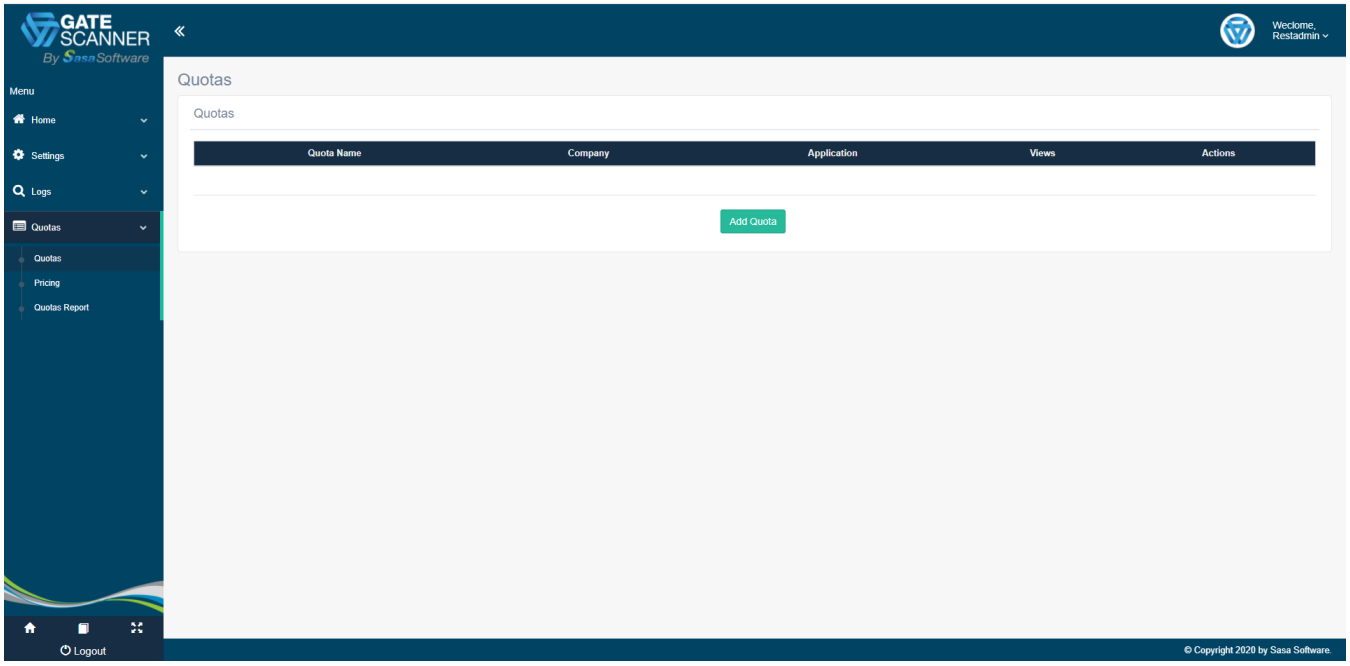

Figure 26: Create Quota Screen

To create a new Quota click Add Quota button

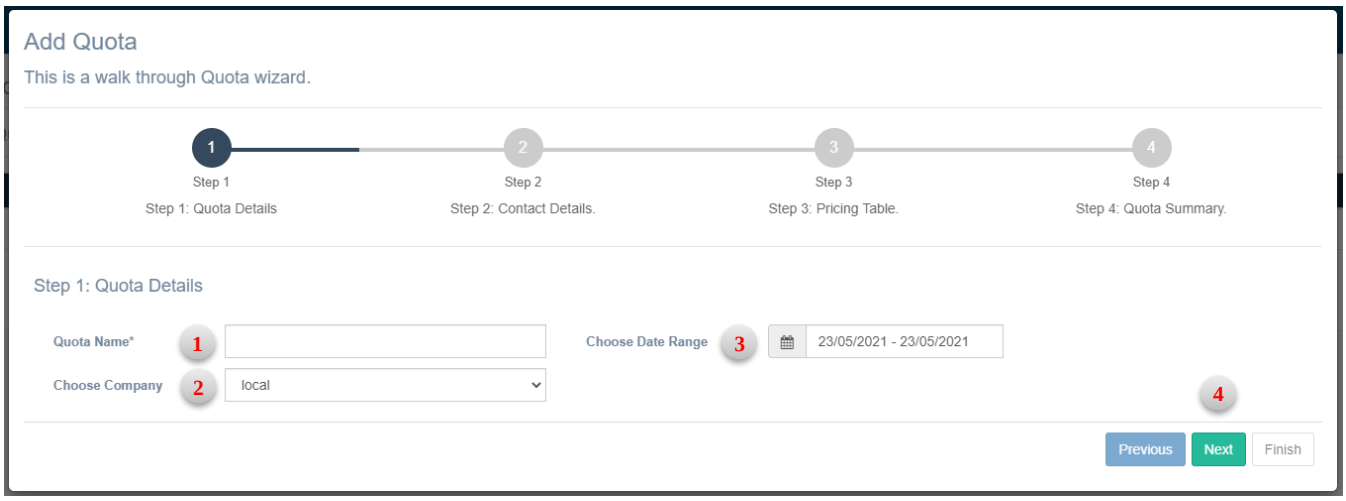

Figure 27: Create Quota Step 1

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

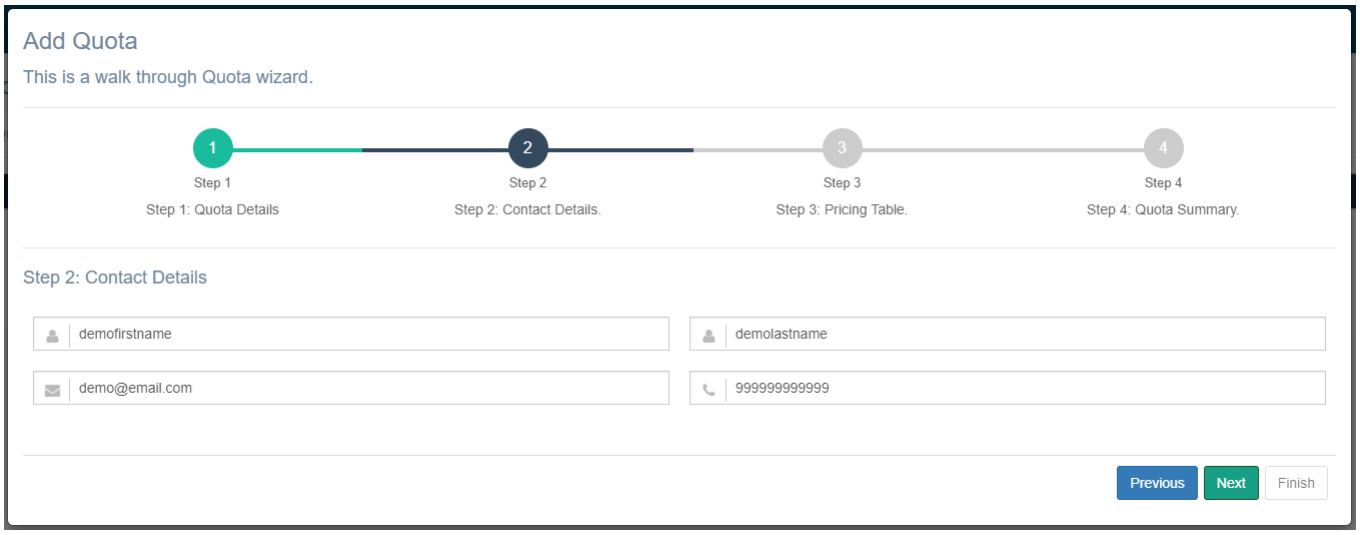

Figure 28: Create Quota Step 2

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.

Figure 29: Create Quota Step 3

Choose the pricing for the created Quota.

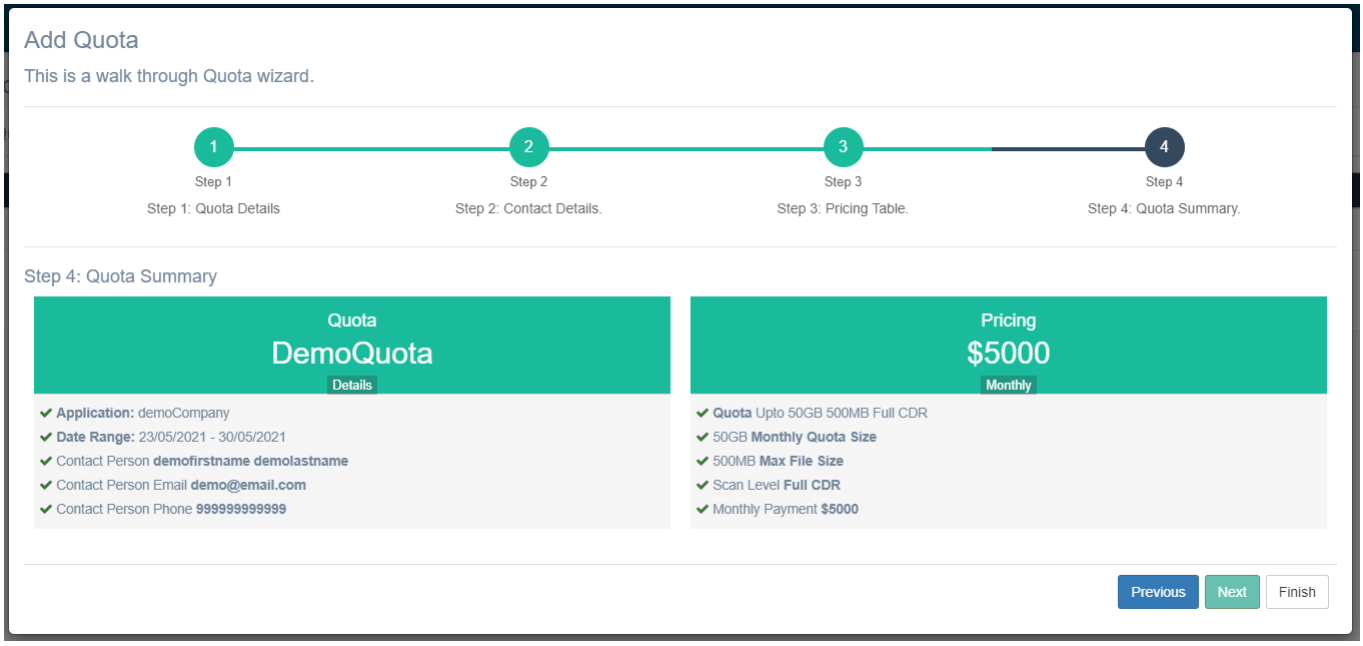

Figure 30: Summary Page

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

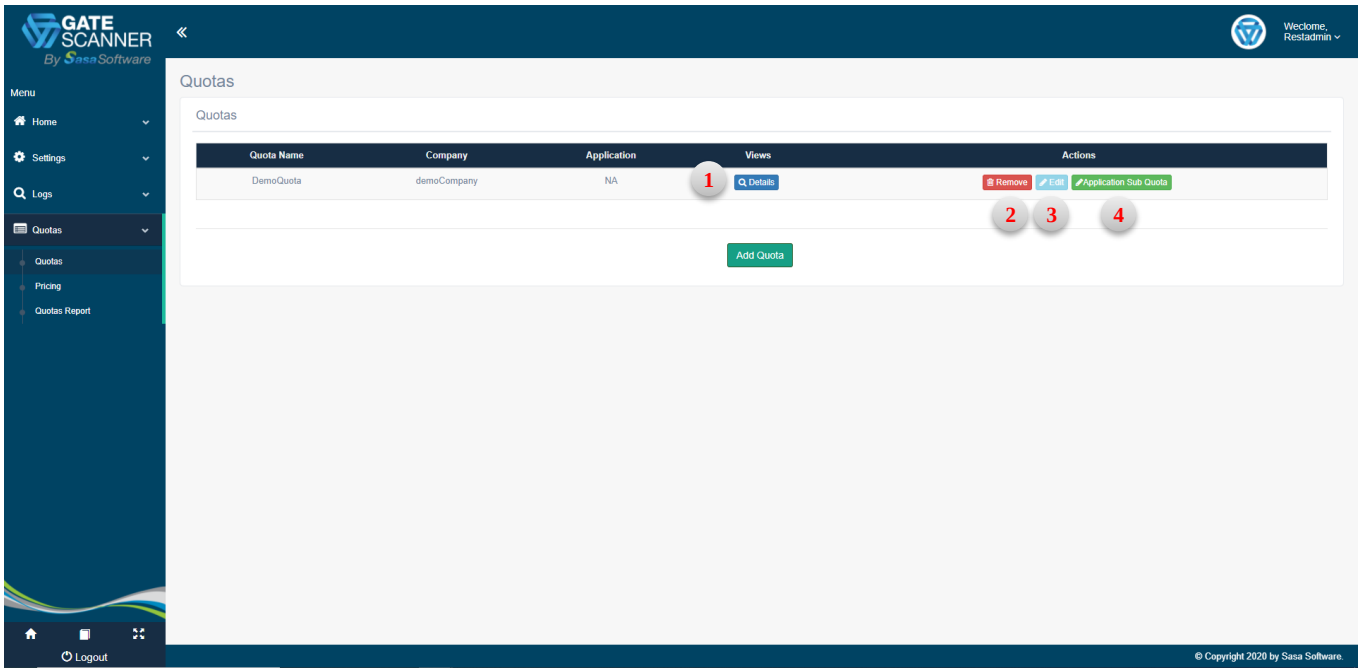

Figure 31: Quotas Page Overview

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

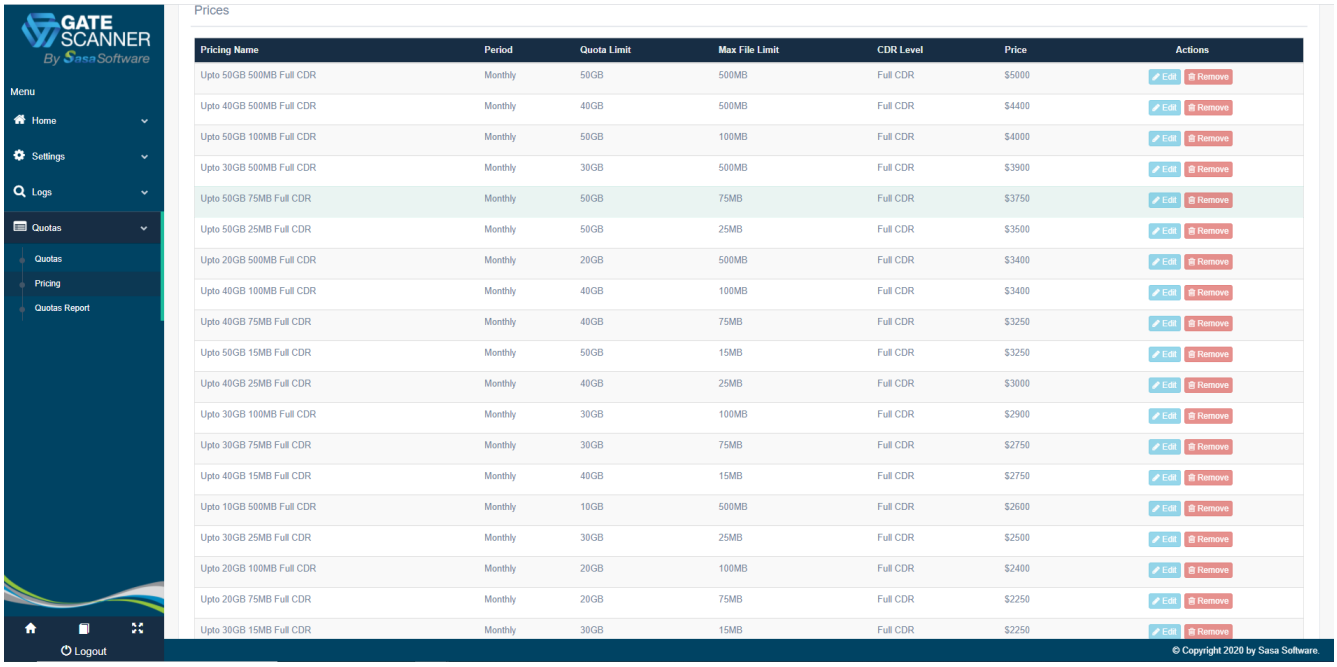

Figure 32: Pricing List Tab

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

3.6 Quota Dashboard

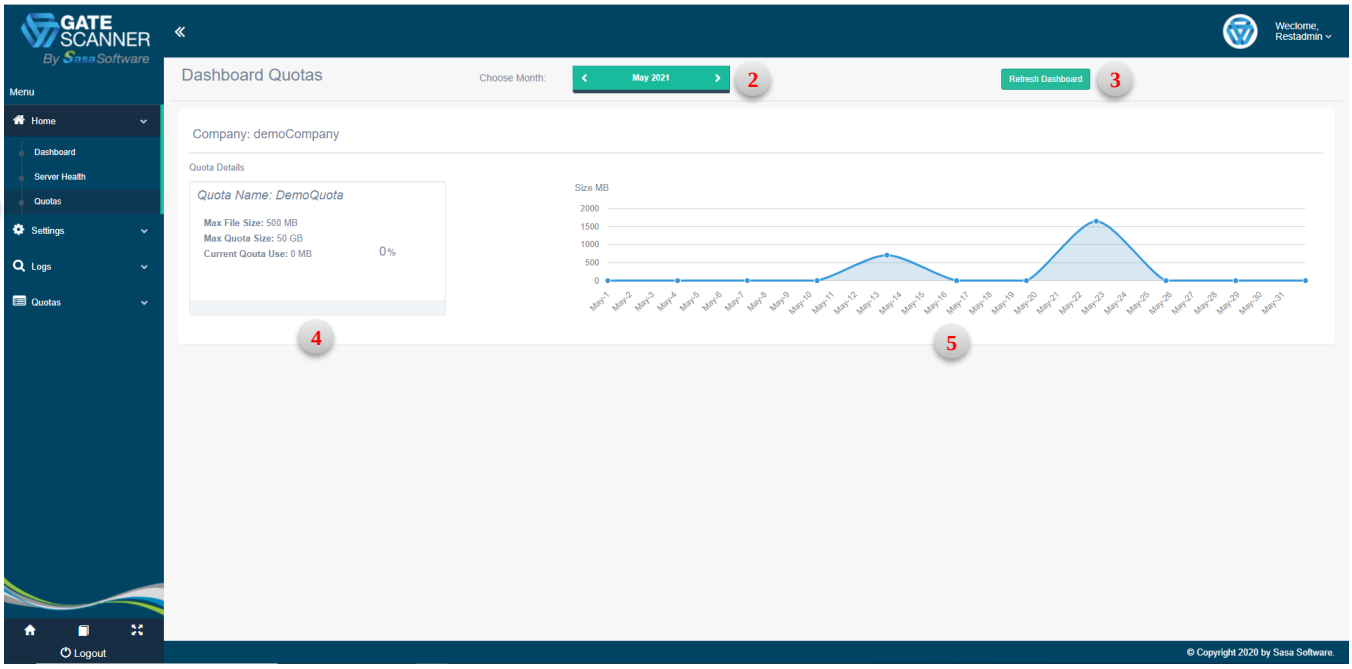

Figure 33: Quotas Dashboard Tab Overview

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.

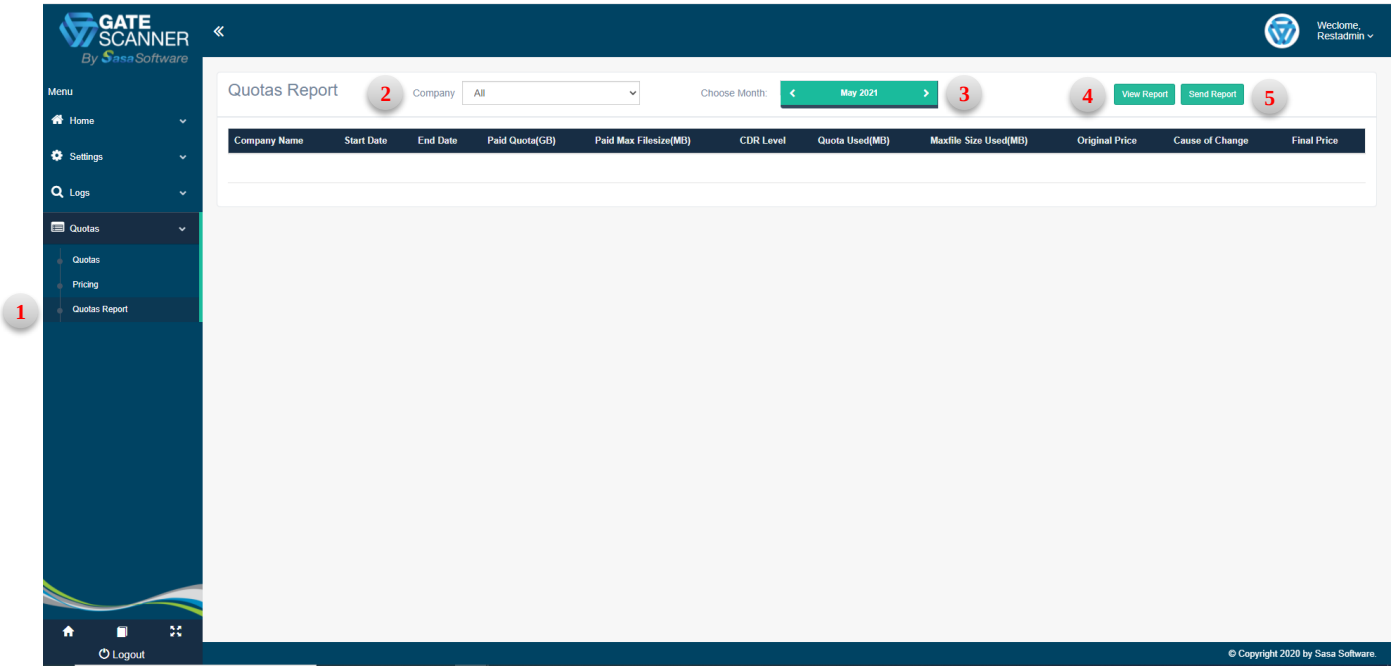

Figure 34: Quotas Report Tab Overview

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