

# GoLismero REST API specification

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# Document versions

| Comments   | Date             | Version |
|--|------------------|---------|
| First version of the document. Format of URLs defined. Pending to be defined: POST parameters, responses and examples.   | August 8-, 2013  | 0.1     |
| Change log:     Fixed bugs.     Added new options for scans: stop/resume.     Added the "web socket" option.     Modified the table of new scan: add new returned parameter.     Specified the timeout for the session.     Specified new parameters returned for the scan status.     Updated mind map. | August 28, 2013  | 0.2     |
| <ul> <li>Change log:</li> <li>Translated the document to English.</li> <li>Removed the list of actions from the "service definition" section. It's redundant.</li> <li>Changed logotype for the new version of it.</li> <li>Added new method for plugins: extended list</li> </ul>                       | October 11, 2013 | 0.3     |
| Change log:  Renamed 'scan' to 'audit'.  Added information about login and session management.  Added information about audit management  Extended the documentation of each method.  New look and feel.  Redesigned URIs  Modified mind map  Changed structure: removed admin section.                  | October 15, 2013 | 0.4     |



| Comments   | Date             | Version |
|--|------------------|---------|
| <ul> <li>Change log:</li> <li>Added error codes in responses.</li> <li>Added new method for audits: results, results summary and filtered list.</li> <li>Added "list" word in all URIs, instead of use base URI.</li> <li>Modified details URI for plugins.</li> </ul> | October 17, 2013 | 0.5     |



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## General information

## **Objective**

The objective of this document is to define the API communication with the GoLismero vulnerability scanner, when it's working as service.

## **Prerequisites**

GoLismero must be working as a service.

## **Working mode**

GoLismero will launch an application server that will listen on a given IP address and a port specified in the configuration file.

The protocol used to communicate with the system will be **standard HTTP**.

The architecture used to interact with the system will be **standard REST.** 

## **Connections types**

GoLismero defines 2 types of connections:

- Using an HTTP standard connection.
- Using web sockets.

The type of connection will be specified in the moment of login.

#### Service access

The service will be accessible by the URI:

http://SERVER\_LOCATION/api/

## **Security notes**

GoLismero itself does not implement encrypted connections.

If you want to encrypt the communications it's recommended to use a front-end web server, between GoLismero and the Internet connection, acting as an SSL proxy.

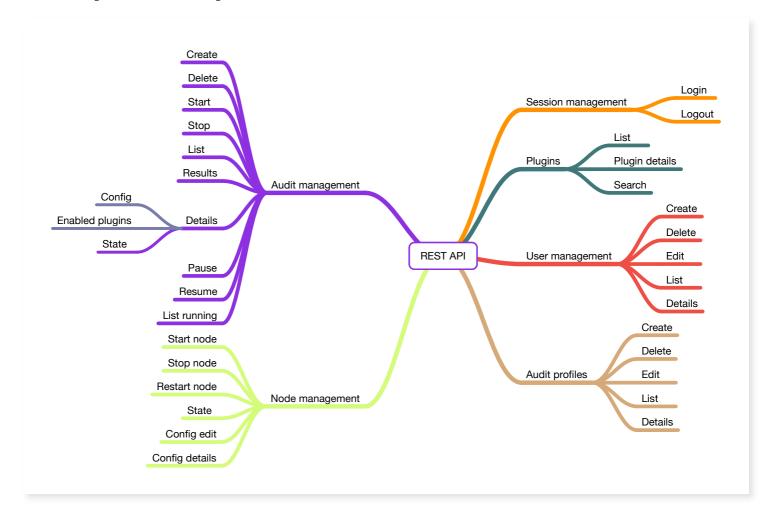


## Service definition

The elements that will define the service are detailed below, as well as some useful information to understand it.

#### **Service schematics**

The following schematic shows a high-level view of the service definition:





#### Method and actions

The GoLismero API has the following actions and methods.

#### 1. Response error checking

To make useful the API usage, all of responses will return a parameter indicating if response was successfully and, in error cases, error descriptions.

#### Parameter:

- status :: String -> Values returned are:
  - o ok
  - o error
- error :: list(String) -> Description list, in English.
- error\_code :: Int -> Integer indicating the code of error.

To improve readability, the method definitions in the rest of document will omit the *status and error*, but all of the methods will return it.

#### 2. Session management

These are the URIs defined for session management.

## Base URI: /api/auth/

These are the methods defined for session management:

- login
- logout

#### **Session timeout**

Session timeout is reached if no request is done for the timeout interval.

The timeout of the session by default will be 30 minutes.

#### About the session

The session management is **based on a token**. In the first request, the client must request a session token and the next request must have that token.

#### Sending the token

To continue within the session, the client must send the session token as part of the HTTP headers, as follows:

- The client must add an HTTP field named "Authorization" to the headers.
- The field must contain the word "Token" and the token value, separated by a blank space.
- The Token value must be 40 chars in length.

Example of a complete HTTP field:

## Authorization: Token 641f170216b948d194985a17653c8fc1d1aa02ef

Minimal HTTP header request:



GET /api/plugins/list HTTP/1.1 Host: golismero.mysite.com

Authorization: Token b9f7409391d47ba13c84e3d840b2b3cd652ea85b

#### Header omission in method documentation

To improve readability, the method definitions in the rest of document will omit the *token*, but all of the methods (except for the login method) will need the token to work.



#### **SESSION :: LOGIN method**

This method allows a client to authenticate against the GoLismero application.

## URI: /api/auth/login/

#### **GET parameters**

No parameters

#### **POST parameters**

- username :: String -> A Valid username in GoLismero.
- password :: String -> String with user password.

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200
- HTTP text: OK
- · Parameters:
  - o token :: String -> Token string. The token is 40 chars long.

#### Error responses

The server may return the following errors:

- 1. Incorrect credentials
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0
- 2. Fields required
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 1

#### Request example

POST /api/login/token/ HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

Content-Length: 29

Content-Type: application/x-www-form-urlencoded

username=myuser&password=mypassword

#### Response example



#### Normal response:

HTTP/1.0 200 OK

Date: Tue, 15 Oct 2013 15:34:09 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: POST, OPTIONS

{"token": "b5fbbbea58c509da5421d9bc5c6709566eadbdbc", status: "ok"}

#### Incorrect credentials

HTTP/1.0 400 BAD REQUEST

Date: Tue, 15 Oct 2013 15:36:05 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: POST, OPTIONS

{"non\_field\_errors": ["Unable to login with provided credentials."], status: "error", "error\_code":

#### Field required

HTTP/1.0 400 BAD REQUEST

Date: Tue, 15 Oct 2013 15:37:42 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: POST, OPTIONS

{"password": ["This field is required."], status: "error", "error\_code": 0}

#### **SESSION:: LOGOUT method**

This method finalizes the session with GoLismero. It can be called using GET or POST HTTP methods.

URI: /api/auth/logout/

#### **GET** parameters

No parameters



#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200 • HTTP text: OK
- · Parameters:
  - o logout :: String -> String with the text "ok".

#### Error responses

The server may return the following errors:

- 1. Session does not exist
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0
  - Parameters:
    - logout :: String -> String with the text "error"
    - o error :: list(String) -> ["Session does not exist"]
    - o error\_code :: Int -> Number specifying error type.
- 2. Invalid session token
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 1
  - Parameters:
    - logout :: String -> String with the text "error"
    - o error :: list(String) -> ["Invalid session token"]
    - o error\_code :: Int -> Number specifying error type.

#### Request example

POST /api/auth/logout/ HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

Authorization: Token f0d09476ce26847ba3ea7c7deee035dd868d222daa

#### Response example

#### Normal response:



Date: Tue, 15 Oct 2013 20:08:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: POST, OPTIONS

{"status": "ok"}

#### Session does not exist

HTTP/1.0 400 BAD REQUEST

Date: Tue, 15 Oct 2013 20:13:22 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: POST, OPTIONS

{"status": "error", "error": ["Session does not exist"]}

#### Invalid session token

HTTP/1.0 400 BAD REQUEST

Date: Tue, 15 Oct 2013 20:13:22 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: POST, OPTIONS

{"status": "error", "error": ["Invalid session token"]}



#### 3. Audit management

These are the URIs defined for audit management:

## Base URI: /api/audits/

These are the available audit management methods:

- list
- create
- delete
- start
- stop
- state
- results
- details
- pause
- resume
- log

#### **Audit states**

An audit can be in some states, depending of user actions or internal state. Available audit states are:

- new (Created but not started).
- running
- stopped
- paused
- canceled
- all



#### **AUDIT :: LIST method**

This method shows all audits. If the caller has the administrator role, all audits will be returned. Otherwise, if the caller is a normal user, only their own audits will be returned.

## URI:

## /api/audits/list/{STATE}

#### **GET** parameters

• STATE :: String -> Optional value that indicates if method will returns all audits or running audits. If no value specified, default option will be "all". Available states are defined at beginning of this section.

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200HTTP text: OK
- results :: list(dictionary) ->
  - o id :: Number -> Audit ID
    - o name :: String -> Audit name.
    - o user :: String -> Audit owner.
    - o state:: String -> Audit state. States was defined at de beginning of this section.

#### Error responses

The server may return the following errors:

- 1. Unknown state
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

## Request example

GET /api/audits/list/canceled HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

#### Normal response:



Date: Thu, 17 Oct 2013 17:55:44 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

#### Unknown state

HTTP/1.0 200 OK

Date: Thu, 17 Oct 2013 17:57:34 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Unknown state"]}



## **AUDIT :: CREATE method**

| This method creates a new audit, linked to the user who created it. |
|---|
| URI: /api/audits/create/  |
| GET parameters  |
| <ul> <li>No parameters</li> </ul>                                   |
| POST parameters   |
| <ul> <li>No parameters</li> </ul>                                   |
|   |
| Response  |
| Response  |
| Response  Request example   |
|   |
|   |
| Request example   |
| Request example  Response example                                   |



#### **AUDIT :: DELETE method**

This method deletes an audit. If the caller has the administrator role, any audit can be deleted. Otherwise, if caller is a normal user, only their own audits can be deleted.

## URI: /api/audits/delete/{ID}

#### **GET parameters**

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200HTTP text: OK
- status :: String -> "ok"

#### Error responses

The server may return the following errors:

- 2. Audit not found
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

### Request example

GET /api/audits/delete/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

Normal response:



Date: Fri, 18 Oct 2013 10:22:14 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok"}

#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



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#### **AUDIT :: START method**

This method starts an audit. If the caller has the administrator role, any audit can be started. Otherwise, if the caller is a normal user, only their own audits can be started.

## URI: /api/audits/start/{ID}

#### **GET parameters**

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200
- HTTP text: OK
- status :: String -> "ok"

#### Error responses

The server may return the following errors:

- 3. Audit not found
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

#### **Request example**

GET /api/audits/start/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

Normal response:



Date: Fri, 18 Oct 2013 10:22:14 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok"}

#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



#### **AUDIT :: STOP method**

This method stops an audit. If the caller has the administrator role, any audit can be stopped. Otherwise, if the caller is a normal user, only their own audits can be stopped.

## URI: /api/audit/stop/{ID}

#### **GET parameters**

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200
- HTTP text: OK
- status :: String -> "ok"

#### Error responses

The server may return the following errors:

- 4. Audit not found
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

#### **Request example**

GET /api/audits/stop/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

Normal response:



Date: Fri, 18 Oct 2013 10:22:14 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok"}

#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

 $\{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]\} \\$ 



## AUDIT :: STATE method

| This method checks the audit state. If the caller has the administrator role, the state of any audit can be checked. |
|--|
| Otherwise, if the caller is a normal user, only their own audits can be checked.                                     |
| URI: /api/audits/state/{ID}  |
| GET parameters   |
| No parameters  |
| POST parameters  |
| <ul> <li>No parameters</li> </ul>  |
| Response   |
|  |
| Request example  |
|  |
| Response example   |
| Normal response:   |
|  |
| Incorrect credentials  |



#### **AUDIT :: RESULTS method**

| GET parameters |  |
|----------------|--|
| URI:           | /api/audits/results/{ID}/{FORMAT}  |
| Getting res    | sults  |
| Otherwise      | , if the caller is a normal user, only their own audits results can be obtained.                                 |
| This method    | od gets the audit results. If the caller has the administrator role, the results from any audit can be obtained. |

## **POST parameters**

No parameters

No parameters

## Response

## Request example

## Response example

Normal response:

## Incorrect credentials



#### Getting summarized results

## URI: /api/audits/results/summary/{ID}

#### **GET** parameters

- vulns\_number :: Number -> Total vulnerability number.
- discovered\_hosts:: Number -> Discovered hosts during audit process. In this number are not included hosts
  provided as audit parameters.
- total\_hosts :: Number -> The sum of discovered hosts and audited hosts.
- *vulns\_by\_level* :: Idictionary -> List of dictionaries detailing each vulnerabilities in each level.
  - o info :: Number -> Informational vulnerabilities number.
  - o low :: Number -> Lower vulnerabilities number.
  - o medium :: Number -> Informational vulnerabilities number.
  - high :: Number -> Informational vulnerabilities number.
  - o critical :: Number -> Informational vulnerabilities number.

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200
- HTTP text: OK
- status :: String -> "ok"

#### Error responses

The server may return the following errors:

- 5. Audit not found
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

#### Request example

GET /api/audits/results/summary/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

#### Normal response:



Date: Fri, 18 Oct 2013 13:40:25 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok", "vulns\_number": "12", "vulns\_by\_level": {"info": "5", "high": "2", "medium": "2", "critical": "1", "low": "2"}, "discovered\_hosts": "3", "total\_hosts": "4"}

#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



#### **AUDIT :: DETAILS method**

This method gets the audit details. If the caller has the administrator role, any audit details can be retrieved. Otherwise, if the caller is a normal user, only their own audits details can be retrieved.

## URI: /api/audits/details/{ID}

#### **GET** parameters

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP CODE: 200HTTP TEXT: OK
- Params:
  - o start\_date :: Date -> Audit start date and time.
  - o end\_date :: Date -> Audit start date and time.
  - user :: String -> Audit owner.
  - o config :: Dictionary ->
    - targets :: list(String) -> Target list.
    - only\_vulns :: Bool -> Indicates if report only contains vulns, without resources or any extra info.
    - audit\_name :: String -> Audit name.
    - imports :: list(String) -> imported files list.
    - enable\_plugins :: list(String) -> Enabled plugins list, by plugin name.
    - disable\_plugins :: list(String) -> Disabled plugins list, by plugin name.
    - include\_subdomains :: Bool -> Allow to include any subdomains discovered in the analysis.
    - subdomain\_regex :: String -> Include to the analysis subdomains matching the regex.
    - depth :: Number -> Spider depth. 0 means infinite.
    - max\_links :: Number -> Maximum number of links to audit. 0 means infinite.
    - follow\_redirects :: Bool -> Enable following redirects.
    - follow\_first\_redirect :: Bool -> Enable following only first redirect.
    - proxy\_addr :: String -> String with proxy address as format: IP:PORT.
    - proxy\_user :: String -> Proxy user.
    - proxy\_pass :: String -> Proxy password.
    - cookie :: String -> Raw text to add to Cookie HTTP header in each request.
    - user\_agent :: String -> Custom HTTP user agent string or "random" text.



#### Error responses

The server may return the following errors:

#### 6. Audit not found

HTTP code: 400

HTTP text: "BAD REQUEST"

Error code: 0

#### Request example

GET /api/audits/details/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

#### Normal response:

HTTP/1.0 200 OK

Date: Fri, 18 Oct 2013 14:10:56 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok", "config": {"subdomain\_regex": "", "proxy\_user": "", "proxy\_pass": "", "imports": [""], "follow\_first\_redirect": "True", "depth": "0", "enable\_plugins": ["spider", "sqlmap", "openvas"], "max\_links": "0", "disable\_plugins": [""], "proxy\_addr": "", "only\_vulns": "False", "follow\_redirects": "True", "cookie": "", "audit\_name": "audit1", "include\_subdomains": "True", "targets": ["www.target1.com", "target2.com"], "user\_agent": "random"}, "start\_date": "2013-10-18 16:03:32", "end\_date": "2013-10-14 10:23:32", "user": "user1"}

#### Incorrect credentials

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



#### **AUDIT :: PAUSE method**

This method pauses an audit. If the caller has the administrator role, any audit can be paused. Otherwise, if the caller is a normal user, only their own audits can be paused.

## URI: /api/audits/pause/{ID}

#### **GET parameters**

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200
- HTTP text: OK
- status :: String -> "ok"

#### Error responses

The server may return the following errors:

#### 7. Audit not found

- HTTP code: 400
- HTTP text: "BAD REQUEST"
- Error code: 0

#### **Request example**

GET /api/audits/start/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

Normal response:



Date: Fri, 18 Oct 2013 10:22:14 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok"}

#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



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#### **AUDIT :: RESUME method**

This method resumes a paused audit. If the caller has the administrator role, any audit can be resumed. Otherwise, if the caller is a normal user, only their own audits can be resumed.

## URI: /api/audits/resume/{ID}

#### **GET parameters**

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

- HTTP code: 200
- HTTP text: OK
- status :: String -> "ok"

#### Error responses

The server may return the following errors:

- 8. Audit not found
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

#### **Request example**

GET /api/audits/resume/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

Normal response:



Date: Fri, 18 Oct 2013 10:22:14 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "ok"}

#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



#### **AUDIT :: LOG method**

This method return audit generated log. If the caller has the administrator role, all audits logs will be returned. Otherwise, if the caller is a normal user, only their own audits logs will be returned.

It return all related log generated by the audit. This method can be called in any moment. If audit is not finished, it returns available audit log for the moment of call.

## URI: /api/audits/log/{ID}

#### **GET** parameters

ID :: Number -> Audit ID to delete

#### **POST parameters**

No parameters

#### Response

#### Normal response

If the request was successfully done, the server will return the following:

HTTP code: 200HTTP text: OK

• status :: String -> "ok"

### Error responses

The server may return the following errors:

- 9. Audit not found
  - HTTP code: 400
  - HTTP text: "BAD REQUEST"
  - Error code: 0

### Request example

GET /api/audits/start/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*

#### Response example

#### Normal response:

## GET /api/audits/start/7 HTTP/1.1

Host: golismero.mysite.com

Accept: \*/\*



#### Audit not found

HTTP/1.0 400 BAD REQUEST

Date: Fri, 18 Oct 2013 10:29:57 GMT Server: WSGIServer/0.1 Python/2.7.2

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN Content-Type: application/json

Allow: GET, DELETE, HEAD, OPTIONS

{"status": "error", "error\_code": 0, "error": ["Provided audit ID not found"]}



#### 4. User management

These are the URIs defined for user management.

# Base URI: /api/users/

These are the methods defined for user management:

- list
- create
- edit
- delete
- details

#### User restrictions and roles

The following methods can only be called by users with the administrator role:

- list
- create
- delete

Non-privileged users can only manipulate with their own information with the following methods, while users with the administrator role can manipulate information from any user with them:

- edit
- details



# **USERS :: LIST method**

| This method shows all available GoLismero users. Only users with the administrator role can call it. |
|--|
| URI: /api/users/list/  |
| GET parameters   |
| <ul> <li>No parameters</li> </ul>  |
| POST parameters  |
| <ul> <li>No parameters</li> </ul>  |
| Response   |
| Request example  |
|  |
|  |
| Response example   |
| Normal response:   |
|  |



|   | ICEDO   |     | CREATE | mathad |
|---|---------|-----|--------|--------|
| u | 1.5ED.5 | === | CHEAIR | memoa  |

| This method creates a new user. Only users with the administrator role can call it. |
|---|
| URI: /api/users/create/   |
| GET parameters  |
| <ul> <li>No parameters</li> </ul>   |
| POST parameters   |
| <ul> <li>No parameters</li> </ul>   |
|   |
| Response  |
| Response  |
| Request example   |
|   |
|   |
| Request example   |
| Request example  Response example   |



# **USERS :: EDIT method**

This method modifies the information for an existing user. Only users with the administrator role can call it on any user ID – non-privileged users may only access their own information.

| non-privileged users may only access their own information. |
|---|
| URI: /api/users/edit/{ID}                                   |
| GET parameters  |
| No parameters   |
| POST parameters   |
| <ul> <li>No parameters</li> </ul>                           |
| Response  |
|   |
| Request example   |
|   |
| Response example  |
| Normal response:  |
|   |
|   |
| Incorrect credentials                                       |



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|---|-----|-----|-----|-----|-------|-----|
|   |     |     |     |     |       |     |

| This method deletes an existing user. Only users with the administrator role can call it. |
|---|
| URI: /api/users/delete/{ID}   |
| GET parameters  |
| <ul> <li>No parameters</li> </ul>   |
| POST parameters   |
| <ul> <li>No parameters</li> </ul>   |
| Response  |
|   |
|   |
| Request example   |
| Request example   |
| Request example  Response example   |
|   |
| Response example  |



# **USERS :: DETAILS method**

This method retrieves the information for an existing user. Only users with the administrator role can call it on any user ID – non-privileged users may only access their own information.

| non-privileged users may only access their own information. |  |
|---|--|
| URI: /api/users/details/{ID}                                |  |
| GET parameters  |  |
| <ul> <li>No parameters</li> </ul>                           |  |
| POST parameters   |  |
| <ul> <li>No parameters</li> </ul>                           |  |
| Response  |  |
| Request example   |  |
|   |  |
|   |  |
| Response example  |  |
| Response example  Normal response:                          |  |
|   |  |
|   |  |



# 5. Plugin management

These are the URIs defined for plugin management.

# Base URI: /api/plugins/

These are the methods defined for plugin management:

- list
- details
- search



|   | _     |     |     |     |      |     |
|---|-------|-----|-----|-----|------|-----|
| ы | <br>വ | NIC | ••• | ICT | meti | 224 |
|   |       |     |     |     |      |     |

| This method shows all available GoLismero plugins, their parameters and execution sta | This method show | ws all available | e GoLismero plugi | ns, their paramete | ers and execution stac |
|---|------------------|------------------|-------------------|--------------------|------------------------|
|---|------------------|------------------|-------------------|--------------------|------------------------|

URI: /api/plugins/list/
GET parameters

No parameters

# **POST** parameters

No parameters

### Response

#### **Request example**

Getting all available plugins:

GET /api/plugins/ HTTP/1.1 Host: golismero.myhost.com

# Response example

Normal response:

Incorrect credentials



#### **PLUGINS:: DETAILS method**

This method shows plugins metadata: author, description, version, parameters, configuration, etc. /api/plugins/details/{NAME} URI: **GET** parameters No parameters **POST parameters** No parameters Response Request example

# Obtaining all detailed information about the "spider" plugin:

GET /api/plugins/spider HTTP/1.1

Host: golismero.myhost.com

## Response example

Normal response:

Incorrect credentials



#### **PLUGINS:: SEARCH method**

This method provides a search engine for plugins.

# URI: /api/plugins/search/{TEXT}

#### **GET** parameters

• TEXT :: String -> Text to search within the available plugins. The text may contain wildcards.

#### **POST parameters**

No parameters

#### Response

#### Request example

Normal search

GET /api/plugins/search/spider HTTP/1.1

Host: golismero.myhost.com

Search using wildcards

GET /api/plugins/search/spider\* HTTP/1.1

Host: golismero.myhost.com

#### Response example

Normal response:

#### Incorrect credentials



### 6. Profile management

These are the URIs defined for profile management.

# Base URI: /api/profiles/

These are the methods defined for profile management:

- list
- create
- edit
- delete
- details

#### **About profiles**

There are two kinds of profiles:

- Global profiles
- User profiles

# Global profiles

Any user can access this type of profiles, but only a user with the administrator role can modify them.

# User profiles

All users can add/modify/delete their own profiles. Users with the administrator role can access all user profiles.



### **PROFILES :: LIST method**

This method lists profiles. If the caller has the administrator role, all profiles will be returned. Otherwise, if the caller is a normal user, only their own profiles will be returned.

| URI: /api/profiles/list/           |
|------------------------------------|
| GET parameters                     |
| <ul> <li>No parameters</li> </ul>  |
| POST parameters                    |
| <ul> <li>No parameters</li> </ul>  |
| Response                           |
| Request example                    |
|                                    |
| Response example                   |
| Response example  Normal response: |
|                                    |
|                                    |



# PROFILES :: CREATE method

This method creates a new profile. If the caller has the administrator role, it can choose if the profile is global or not. Otherwise, if the caller is a normal user, the profile will only be available to the caller.

| Otherwise, if the caller is a normal user, the profile will only be available to the caller. |
|--|
| URI: /api/profiles/create/   |
| GET parameters   |
| <ul> <li>No parameters</li> </ul>  |
| POST parameters  |
| <ul> <li>No parameters</li> </ul>  |
| Response   |
| Request example  |
|  |
| Response example   |
| Normal response:   |
|  |
|  |
| Incorrect credentials  |



# **PROFILES :: EDIT method**

This method allows editing profiles. If the caller has the administrator role, any profile can be edited. Normal users can only edit their own profiles.

| edit their own profiles.          |
|-----------------------------------|
| URI: /api/profiles/edit/{ID}      |
| GET parameters                    |
| <ul> <li>No parameters</li> </ul> |
| POST parameters                   |
| <ul> <li>No parameters</li> </ul> |
| Response                          |
|                                   |
| Request example                   |
|                                   |
| Response example                  |
| Normal response:                  |
|                                   |
| Incorrect credentials             |
|                                   |



# PROFILES :: DELETE method

This method allows profile deletion. If the caller has the administrator role, any profile can be deleted. Normal users can only delete their own profiles.

| only delete their own profiles.   |
|-----------------------------------|
| URI: /api/profiles/delete/{ID}    |
| GET parameters                    |
| <ul> <li>No parameters</li> </ul> |
| POST parameters                   |
| <ul> <li>No parameters</li> </ul> |
|                                   |
| Response                          |
| Response                          |
| Response  Request example         |
|                                   |
|                                   |
| Request example                   |
| Request example  Response example |
| Request example  Response example |



# PROFILES :: DETAILS method

This method shows profiles details. If the caller has the administrator role, any profile information can be retrieved. Normal users can only retrieve information for their own profiles.

| URI:    | /api/profiles/details/{ID} |
|---------|----------------------------|
| GET par | rameters                   |
| •       | No parameters              |
| POST pa | arameters                  |
| •       | No parameters              |
| Respons | se                         |
|         |                            |
| Reques  | t example                  |
| Reques  | t example                  |
|         | t example<br>se example    |
| Respons |                            |
| Respons | se example                 |
| Respon: | se example                 |



#### 7. Node administration

These are the URIs defined for node administration.

# Base URI: /api/nodes/

These are the methods defined for node administration:

- Node administration
  - o list
  - o start
  - o stop
  - o restart
  - o state
  - o Configuration edit
  - o Configuration details

#### **About nodes**

A node is a running instance of GoLismero and can be managed like a common remote service.

Only users with the administrator role can use this API.

#### Important notes

Currently, GoLismero not support nodes management. It only runs a single instance of GoLismero.

THIS SECTION OF THE API IS NOT IMPLEMENTED YET



#### NODE :: LIST method

| This metho | od lists all available nodes that GoLismero can manage. |
|------------|---|
| URI:       | /api/nodes/list/  |
| GET para   | meters  |
| • N        | lo parameters   |
| POST par   | ameters   |
| • N        | lo parameters   |
| Response   |   |
|            |   |
| Request 6  |   |
| Request 6  |   |
| Request e  | example   |
| Request e  | example<br>e example                                    |



| ODE :: S | TART method           |
|----------|-----------------------|
| This me  | ethod starts a node.  |
|          |                       |
| URI:     | /api/nodes/start/{ID} |
| GET pa   | arameters             |
| •        | No parameters         |
| POST     | parameters            |
| •        | No parameters         |
| Respo    | nse                   |
|          |                       |
|          |                       |
| Reque    | st example            |
|          |                       |
| _        |                       |
| Respo    | nse example           |
| N        | ormal response:       |
|          |                       |
|          |                       |
| ما       | correct aradentials   |
| In       | correct credentials   |



| ODE :: S | TOP method           |
|----------|----------------------|
| This m   | ethod stops a node.  |
| URI:     | /api/nodes/stop/{ID} |
| GET p    | arameters            |
| •        | No parameters        |
| POST     | parameters           |
| •        | No parameters        |
| Respo    | nse                  |
| Reque    | est example          |
|          |                      |
| Respo    | nse example          |
| <u>N</u> | lormal response:     |
|          |                      |
| In       | ncorrect credentials |



| ODE :: R  | ESTART method           |
|-----------|-------------------------|
| This me   | thod restarts a node.   |
| URI:      | /api/nodes/restart/{ID} |
| GET pa    | rameters                |
|           | No parameters           |
| POST p    | arameters               |
| •         | No parameters           |
| Respon    | se                      |
|           |                         |
| Reques    | et example              |
|           |                         |
| Respon    | se example              |
| <u>Nc</u> | ormal response:         |
|           |                         |
|           |                         |
| Inc       | correct credentials     |

Incorrect credentials



| IODE :: S1 | TATE method                     |
|------------|---------------------------------|
| This me    | thod shows the state of a node. |
| URI:       | /api/nodes/state/{ID}/          |
| GET pa     | rameters                        |
| •          | No parameters                   |
| POST p     | parameters                      |
| •          | No parameters                   |
| Respor     | nse                             |
|            |                                 |
| Reques     | st example                      |
|            |                                 |
| Respor     | nse example                     |
| No         | ormal response:                 |
|            |                                 |
|            |                                 |



|   | _   |          | _        | _        |
|---|-----|----------|----------|----------|
| N | ODE | :: CONFI | G DETAIL | S method |

| ODE CONFIG DETAILS METHOD                      |  |
|--|--|
| This method shows the configuration of a node. |  |
| URI: /api/nodes/config/{ID}                    |  |
| GET parameters                                 |  |
| <ul> <li>No parameters</li> </ul>              |  |
| POST parameters                                |  |
| <ul> <li>No parameters</li> </ul>              |  |
| Response                                       |  |
|  |  |
| Request example                                |  |
|  |  |
| Response example                               |  |
| Normal response:                               |  |
|  |  |
| Incorrect credentials                          |  |



| NODE | ·· COI | VEIG I | FDIT | method |
|------|--------|--------|------|--------|

| This meth          | od allows editing the configuration of a node. |
|--------------------|--|
| URI:               | /api/nodes/config/edit/{ID}                    |
| GET para           | ameters  |
| •                  | No parameters                                  |
| POST pa            | rameters                                       |
| •                  | No parameters                                  |
| Respons            | <b>a</b>                                       |
|                    |  |
|                    | example  |
| Request            |  |
| Request<br>Respons | example  |