S3SRV Management Server's manual

2025

This document is the user/manager manual for the S3SRV Management Server. The list of functions is given, then the Web interface is described and explained, and useful instructions are given to perform usual maintenance tasks.

Version

Version	Date	Description
1.0	15/05/2019	Initial version of the document
2.0	24/07/2019	Update: adding chapters 3 and 4.
2.1	26/07/2019	Adding the "keyboard" command
2.2	16/09/2019	Adding the SNMP configuration
2.3	15/02/2020	Adding the "route" manager and updating command list
2.4	04/03/2020	Adding the DNS to the matrix
2.5	15/07/2020	Changing the "from scratch" chapter
2.6	16/01/2024	Update of the matrix ports, update of the S3SRV's commands (SCP account, AV definitions choices…)
3	10/09/2025	New functions added, description of JSON APIs added
3.1	11/12/2025	JSON API formal description added

References

#	Reference	Name
#1	HR-MD-19-036	S3SRV Web interface user manual
#2	HR-MD-18-001	S3 user manual

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1 S3SRV Command catalogue

1.1 Help commands

`help`	This command will display all available commands of you server. It is the default command: if you enter an incorrect command, help will be displayed instead.
`status`	This command will display useful information about the server: • Current network / proxy / 802.1X configuration • Status of internal databases • Status of internal processes • Status of the system (uptime, hard drive space…
`keyboard`	This command allows you to change the keyboard layout of the S3SRV.

1.2 Network-related functions

`network`	This command allows you to configure the basic network configuration: • IP address (should be a static address or "dhcp") • Network mask (if static IP address) • Network DNS (if static IP address) • Network gateway (if static IP address)
`proxy`	This command allows you to configure a proxy: • Address of the proxy • Port used by a proxy • Login and password used by the proxy, if any
`routes`	This command allows you to manage network routes: • See current network routes • Add a route (from, to, via) • Delete a route
`hostname`	This command allows to modify the hostname of the server.
`reset_interfaces`	This command allows to reset the network interfaces name (of the VM). **We strongly advise to run this command when you receive and setup the S3SRV in your infrastructure.**
`test_network`	This command allows you to test the current network configuration.

1.3 Services-related commands

`time`	This command allows you to set time and date of the server, and to set up an NTP server to be synchronized with: • The server will ask if you wish to use a NTP server • If yes, its address, and version of NTP protocol is asked • If no, it will ask you if you want to set the date manually
`timezone`	This command allows to change the timezone of the server (CET…)
`syslog`	This command allows you to set up a SYSLOG server to be synchronized with: • The server will ask if you wish to use SYSLOG synchronization • If no, syslog will be disabled • If yes, the address, port and mode (TCP/UDP) will be asked to configure the connection to a Syslog server • You will have the possibility to add a second SYSLOG server for redundancy purposes

1.4 Synchronization commands

`ntp_sync`	This command allows you to synchronize manually the server with the NTP servers configured with the "time" command. *To be noted: this synchronization is performed automatically every day by the server itself. You usually don't have to use the manual command.*

1.5 Hogo-related commands

`core_usb`	This command allows you to update your S3SRV with a JIT file from USB: • Put the JIT file on a USB device (only this file must be on it) • Connect the USB device to the server and start the command • The server will automatically gather the file and apply the update
`core_scp`	This command allows you to update your S3SRV with a JIT file from SCP: • Put the JIT file on the SCP account: update_upload • The server will automatically gather the file and apply the update
`core_online`	This command allows you to update your S3SRV from the Internet: • The server will automatically gather the file and apply the update
`get_logs`	This command allows you to get log files of the S3SRV on a USB device: • Connect a USB device to the server and start the command • The logs will be copied on the device (*.log files)
`reset_usb`	When you receive the S3SRV as a VM, it can be necessary to reset the internal USB devices list, as it can change when a VM is copied. This allows the S3SRV to correctly detected USB device afterwards. Unplug any USB device connected to the S3SRV, enter this command, and the server will perform this reset automatically. **We strongly advise to run this command when you receive and setup the S3SRV in your infrastructure.**
`reset_crypto`	When you receive the S3SRV as a VM, it can be necessary to reset the internal cryptographic codes to connect the S3 devices to the VM. This can be done using this function. **We strongly advise to run this command when you receive and setup the S3SRV in your infrastructure.**
`mMyhogo`	This command allows you to set the connection to MyHogo for the S3SRV. It will ask for a login and password, provided by Hogo. It can also be used to parametrize a rebound S3SRV.
`add_cert`	This commands allows to add a CA certificate for the S3SRV's connection to a third party server.

1.6 Commands related to S3 stations

`av_config`	This command allows you to specify the name of the AV definitions downloaded each day by the S3SRV (use the "A|D{0000-1111}" name).
`get_s3_core`	This command allows you to manually download latest Core Software. *To be noted: this synchronization is performed automatically every day by the server itself. You usually don't have to use the manual command.*
`get_s3_av`	This command allows you to manually download latest AV definitions. *To be noted: this synchronization is performed automatically every day by the server itself. You usually don't have to use the manual command.*
`core_import`	This command allows you to manually import the latest Core Software from a USB device.
`av_import`	This command allows you to manually import the latest AV Software from a USB device.
`auto_config`	This command allows to set the time of the day (hour) when the S3SRV will start automatically the get_s3_av and get_s3_core processes.

1.7 System commands

`reboot`	This command will reboot the S3SRV.
`shutdown`	This command will shutdown the S3SRV.
`logout`	This command will logout the current user session from the console.

2 Network flow matrix

All network flows linked to the use of the S3SRV are described hereafter to allow you to set your firewall / filtering rules.

Function	Source	Destination	Protocol/Service	Port
Network test	Connected device	S3SRV	HTTPS	443
AV definition update	Connected device	S3SRV	HTTPS	443
Core update	Connected device	S3SRV	HTTPS	443
Sending AV/Core versions	Connected device	S3SRV	HTTPS	443
Sending logs	Connected device	S3SRV	HTTPS	443
Synchronizing license	Connected device	S3SRV	HTTPS	443
Synchronizing license	Connected device	S3SRV	HTTPS	443
DNS request	Connected device	Your DNS	UDP or TCP	53
NTP synchronization	Connected device	Your NTP server	NTP	123
SYSLOG synchronization	Connected device	Your SYSLOG server	TCP or UDP	Defined PORT
Connection to Proxy	Connected device	Your proxy	HTTP or HTTPS	Defined PORT
NTP synchronization	S3SRV	Your NTP server	NTP	123
SYSLOG synchronization	S3SRV	Your SYSLOG server	TCP or UDP	Defined PORT
Connection to Proxy	S3SRV	Your proxy	HTTP or HTTPS	Defined PORT
AV definition download	S3SRV	Myhogo.eu	HTTPS	443
Core software download	S3SRV	Myhogo.eu	HTTPS	443
DNS request	S3SRV	Your DNS	UDP or TCP	53
Web interface	Your computer	S3SRV	HTTPS	443
Manual AV/core download	Your computer	S3SRV	HTTPS	443
SNMP monitoring	Your computer/Server	S3SRV	UDP	161

These network ports are also necessary if you want to activate the Secure File Sharing (SFS) between the server and the stations :

Function	Source	Destination	Protocol/Service	Port
FTPS connection	Connected device	S3SRV	FTPS	21
FTPS data range	Connected device	S3SRV	FTPS	10000 and 10001

3 S3SRV SNMP monitoring

The SNMP service is automatically installed, configured and activated on your S3SRV.

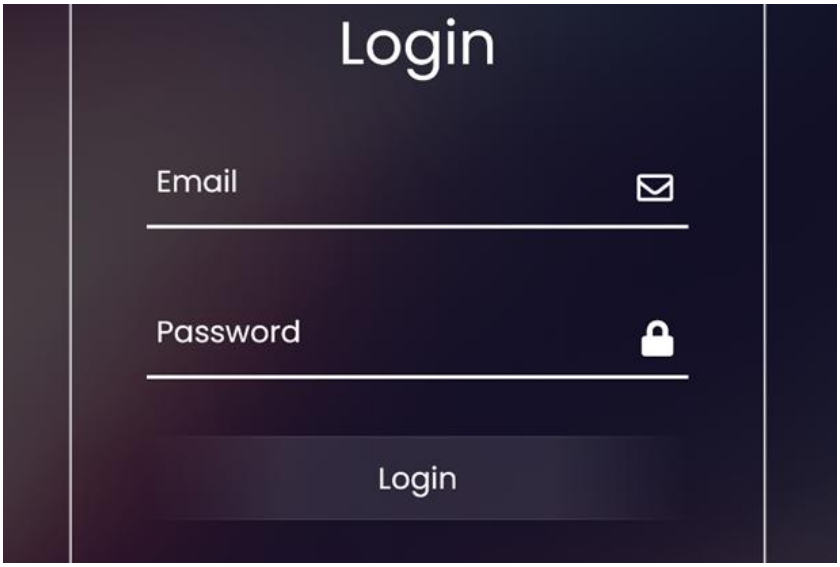
The following metrics are available:

Code	Content	OID
sysDescr	System description	1.3.6.1.2.1.1.1.0
sysName	Server's name	1.3.6.1.2.1.1.2.0
sysORUpTime	Server's up time (hours)	1.3.6.1.2.1.1.9.1.4.1
laLoad (1)	CPU average load (%, last 1 minute)	1.3.6.1.4.2021.10.1.3.1
laLoad (5)	CPU average load (%, last 5 minutes)	1.3.6.1.4.2021.10.1.3.2
dskUsed	Hard drive space used (Kb)	1.3.6.1.4.2021.9.1.8.1
dskAvail	Hard drive space available (Kb)	1.3.6.1.4.2021.9.1.7.1
memAvailReal	RAM space used (Kb)	1.3.6.1.4.2021.4.6.0
memTotalFree	RAM space available (Kb)	1.3.6.1.4.2021.4.11.0

4 S3SRV Web interface

To access the S3SRV's web interface, type the "status" command to know it IP address and enter it in a Web browser as follow: **https://IP_OF_S3SRV/**.

The login prompt will be displayed:



Refer to the S3SRV's frontend manual, ref #1, for more information.

5 API JSON

5.1 Global Server Status API

The Server Status API provides information about the current state of the server and all connected stations. Its structure is as follows:

```
{
    "s3srv": {
        "name": STRING,
        "uptime": STRING,
        "avdb": {
            "a0000": STRING,
            "a0001": STRING,
             "..." : STRING,
            "d1111": STRING
        },
        "s3core": {
            "s3box": STRING,
            "s3pos": STRING,
            "s3tot": STRING
        }
    },
    "stations": [
        {
            "id": INT,
            "name": STRING,
            "heartbeat": ENUM,
            "avdb": DATE_SHORT,
            "s3core": STRING
        },
        { ... }
    ]
}
```

The root object contains two main keys:

- **s3srv:** information related to the central server.
- **stations:** list of stations connected to the server.

The server-related information includes:

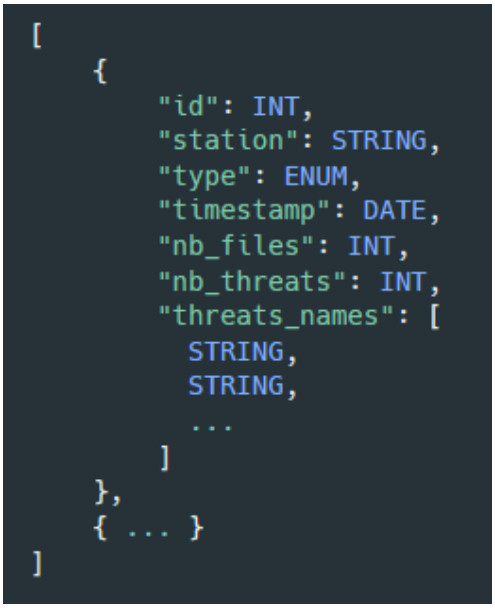
Clé	Type	Description
name	STRING	Server name (host name).
uptime	STRING	Server uptime since the last restart (Unix-style format, e.g. "32 D - 18 H - 21 M - 26 S").
avdb	OBJECT	Dictionary of antivirus database versions available on the server, using the format "reference": "file". The reference is written in the format A0001 to D1111, and the file represents the available database, for example "12-08-2025_defs.jit".
s3core	OBJECT	nformation about the main server software components, using the format "type": "file". The type can be s3box, s3pos or s3tot, and the file corresponds to the available package, e.g. "S3Box_V1.8_build2024072006_Core.jit".

Station information is provided as an array of objects, each element representing a station:

Clé	Type	Description
id	INT	Unique station identifier (numeric).
name	STRING	Station host name.
heartbeat	ENUM	Communication status with the server. Possible values: "perfect", "good", "low", "none".
avdb	DATE_SHORT	Date of the last antivirus database update on the station (short format, e.g. "2025-08-20").
s3core	STRING	Version of the software core ("s3core") installed on the station, for example: « V1.8_build2025030112 ».

5.2 Scan data API

The Scan Data API provides access to scan summaries for the last 30 days, corresponding to all scans that have been sent to the server. Its structure is as follows:



Each object represents an analysis report originating from a station:

Clé	Type	Description
id	INT	Unique analysis identifier (incremental numeric value).
station	STRING	Name of the station from which the analysis originates.
type	ENUM	Event or report type. Possible values depending on the context: "scan", "smart-scan", "decontamination".
timestamp	DATE	Event date and time, in ISO 8601 format (e.g. "2025-10-20 14:32:11").
nb_files	INT	Total number of files scanned or involved in the operation.
nb_threats	INT	Total number of threats detected.
threats_names	ARRAY[STRING]	List of detected threat names. This list may be empty if no threats were found.

6 How to setup a S3SRV from scratch

6.1 Booting the server

6.1.1 Physical server

If the S3SRV has been provided to you as a physical appliance, it should be installed by Hogo or one of its official partners.

Once the S3SRV is installed and plugged, it should directly boot on the Hogo's interface.

Nothing else must be done in this situation, commands are ready to be used.

6.1.2 Virtual Machine

If the S3SRV has been provided to you has a virtual machine (VM), then it should be placed on a server with a VM-Ware's VM player software on it.

On this server, open and run the VM, and use the VM-Ware console to use the S3SRV commands.

6.2 Setting the network

Setting the network is done in five steps:

1- Prepare the VM
   a. Use the "reset_interfaces" command to reset the network devices name of the VM
   b. Use the "reset_usb" command to reset the USB devices name of the VM
   c. Use the "reset_crypto" command and note the codes given by the console
2- Set the basic network configuration, using "`network`"
   a. Enter an IP address, or "dhcp"
   b. If required, enter a subnet mask
   c. If required, enter DNS's address
   d. If required, enter gateway's address
   e. The configuration will be applied automatically.
3- Set the proxy configuration, using "`proxy`"
   a. Enter the proxy's address, or leave empty if no proxy is used
   b. If required, enter the proxy's port
   c. If required, entre the proxy's login, or leave empty if your proxy doesn't need it
   d. If required, entre the proxy's password
   e. The configuration will be applied automatically.
4- Set the other S3SRV (rebound servers), using "`myhogo`"
   a. Enter any MyHogo login and password (if communicated by hogo)
   b. Let the S3SRV test it
   c. If required, add/delete/modify the configuration of a rebound server[1]
   d. The configuration will be applied automatically.
5- Set the S3SRV network routes, using "`routes`"
   a. If required, add/delete/modify existing routes
   b. The configuration will be applied automatically
6- Reboot, using the "`reboot`" command
7- Check your settings, using the "`status`" command

[1] A rebound server is another S3SRV used as a source to get the S3 Core and AV update.

6.3 Parametrized associated S3Box

6.3.1 Prerequisites

Every instance of S3SRV is provided with two secret codes:

- Secret key (16 characters)
- Initialization Vector (16 characters)

These two codes are used to parametrize the S3Box to connect to your S3SRV.

To be noted: The S3Box must have the "online" option to access to the S3SRV.

To parametrized you S3Box to access the server:

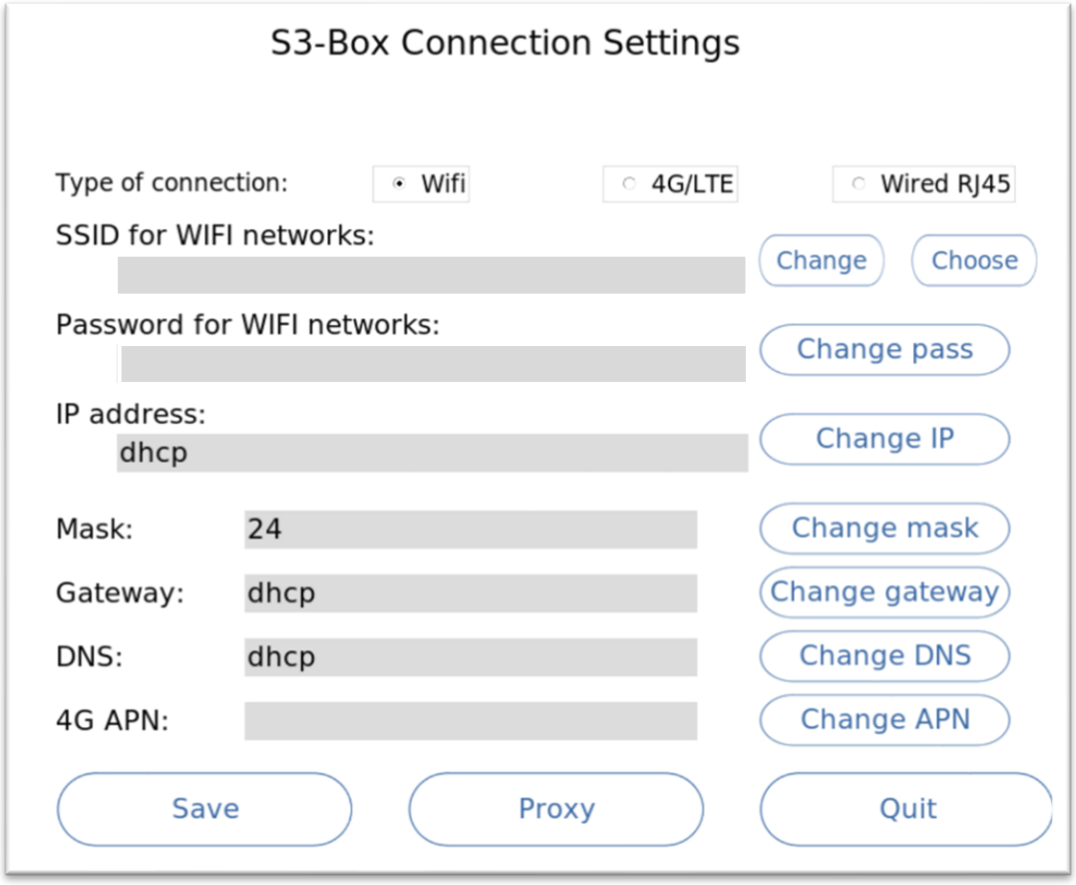
- From the front page, go to "general settings"
- Then go to "Update"
- Then go to "Update settings"

From here you have access to all screens required to configure your box.

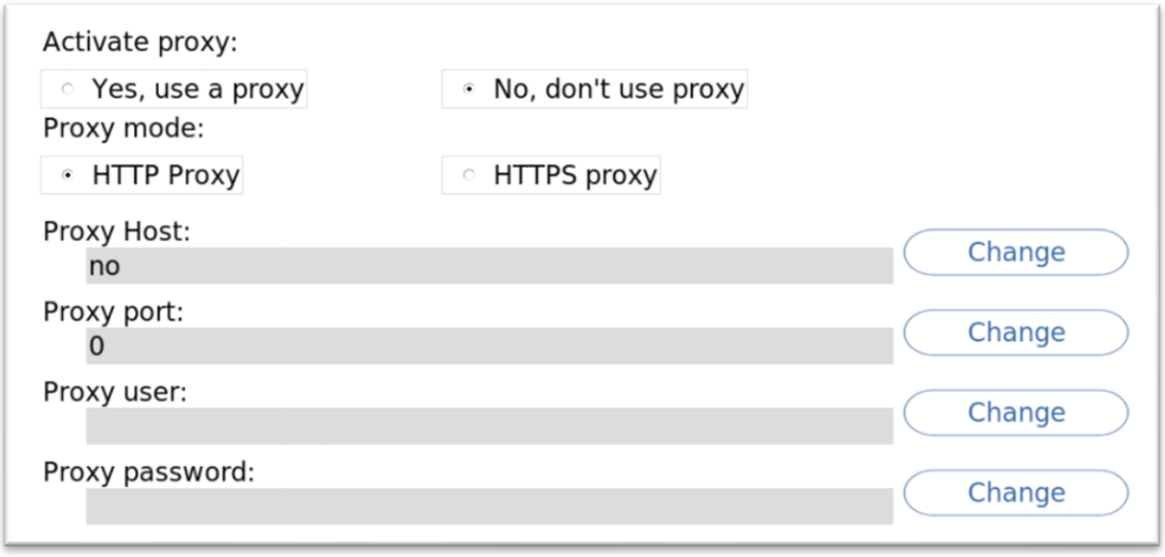


6.3.2 Configure network connection

Going in "Network settings", the following screen is displayed. Use it to set the way the S3Box will connect to your network (warning: S3SRV management servers are not compatible with the "4G" connection mode, as it will connect the device to the Internet and not to your LAN):



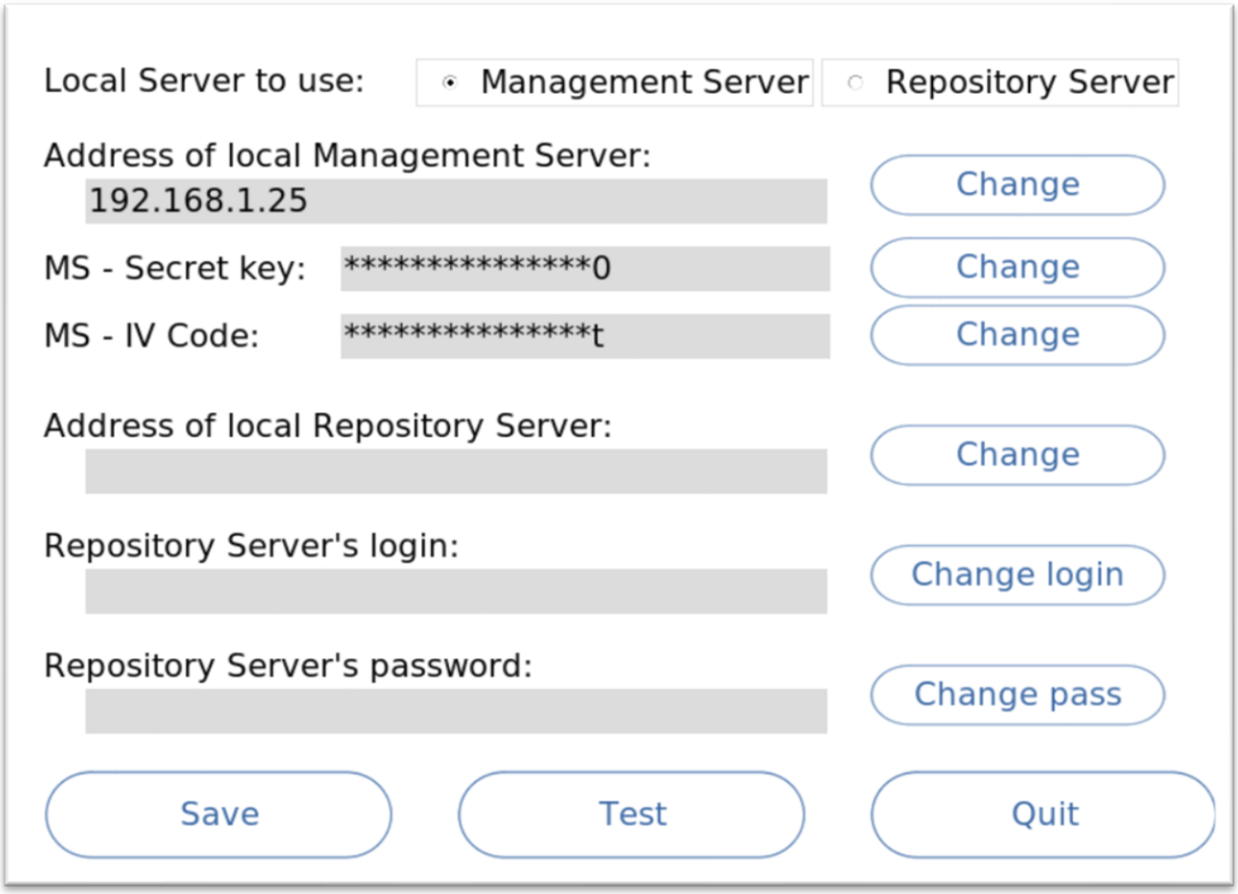
If you need to configure a proxy, click on the "proxy" button and enter the proxy's information:



6.3.3 Configure your local relay server

Going in "Local relay settings", the following screen is displayed.

Check "Management Server" to connect to your S3SRV, and enter its address, secret code, and IV code, for example:



Reminder: the secret code and IV code are given by Hogo when a S3Srv is provided.

6.3.4 Configure the update mode

Going in "Update mode", this screen is displayed. Click on "On premises" to connect to your S3SRV:

