4.1 – config.html

After opening the /config.html page, you have the possibility to configure all the important settings in SparkView.

Quick overview of the individual topics:

- Gateway
- Server
  - RDP
  - VNC
  - SSH
  - Telnet
  - HTTP/S
- User
- Symlink
- Session
- Server Group
- User Group

If you access the page from the localhost, no password is required to start the configuration. Outside the localhost, the management password must be entered.

Below you will find a descriptive overview of the different settings areas (tabs here). The name corresponds to the attribute name that can be written directly to the gateway.conf file.

Gateway

Name in config.html	Attribute in gateway.conf	Type	Default	Description
SSL (https and wss)	ssl	boolean	false	Enable/disable HTTPS/WSS. Can be true and false
Port (Default is 80 or 443)	port	number	8080	Port on which SparkView is running
Binding Address	bindAddr	string	"localhost"	Bind SparkView to a fixed IP address

Name in config.html	Attribute in gateway.conf	Type	Default	Description
Network Level Authentication	credSSP	boolean	false	Enable/disable NLA. Can be true, false or auto
Path of License File	license	string	"./license"	Full path to license file, including file name. Only for paid version.
Upload License File				Upload a license file
HTML Root Directory	html	string	"./html/"	HTML root directory. Printed files are stored in the "temp" subdirectory. Please make sure that SparkView has read and write permissions.
Default Web Page	directoryIndex	string	"rdp.html;index.html"	Default page (inside the HTML directory) that is displayed after opening SparkView.
Path of Log File	logfile	string	"gateway.log"	Full path to log file, including file name.
Size of Single Log File (bytes)	maxbytes	number	30720000	Maximum size of a log file (please specify in bytes)
Maximum number of Log Files	maxfiles	number	99	Maximum number of log files.
Log HTTP header	logHttpHeader	boolean	true	Log HTTP header. This may contain sensitive information such as passwords.
PDF Converter	converter	string		Full path to the Postscript to PDF converter. Ghostscript (https://ghostscript.com/releases) is recommended.
PDF Converter Arguments	arguments	string	"-dBATCH -dNOPAUSE -dPDFSETTINGS=/printer -sDEVICE=pdfwrite -q -sOutputFile=%1 %2"	Arguments for the Postscript to PDF converter. %1 is the name of the output PDF file. %2 is the name of the input PS file.

Name in config.html	Attribute in gateway.conf	Type	Default	Description
Plugin Class	plugin	string		Class name for a custom plugin.
Administration Password (for reporting API etc)	password	string	"password"	Management password for configuration, reporting and API.
Enable Remote Management/Configuration	remoteManage	boolean	false	Enable/disable remote management from outside the localhost.
Temporary directory (for downloading/uploading)	tmpdir	string		Parent directory for temporary files.
Days of temporary files are kept	keepDays	number	1	How many days temporary files should be kept by the system.
RD Web Access Webfeed	webfeed	string		Remote desktop web feed URL, for RD web access integration.
Session Recording	recording	number		Enable/disable session recording. Can be 1 (record graphics only) or 2 (record graphics and sound)
Directory for saving session recordings	recdir	string		Directory for saved session recordings.
Warn user about session recording	recwarning	boolean	true	Warn users about session recording.
Access Not-In-List computers after logged in	accessNotInList	boolean	false	Whether users can reach computers and servers that are not shared with them or in the web feed.
Name of Redirected Drive	disk	string		Name for the shared disk, used for file upload/download.
Name of Redirected Printer	printer	string	"Remote Printer from Client"	
Connections are queued (Backlog)	backlog	number	50	How many client connections can be queued.

Name in config.html	Attribute in gateway.conf	Type	Default	Description
User Definition File	user	string	"./data/users.json"	Full path of the users definition file, including file name.
Server Definition File	server	string	"./data/servers.json"	Full path of the servers definition file, including file name.
Gateway Web Address	webAddress	string		HTTP address of the web server for OpenID login (redirect). Also in use for client side to get the real gateway address (in case of multiple gateways and load balancing).
Host Name of Client User	clientHost	string		Customize the host name of the client user. For more information and possible parameters see section 3.1, "clientHost".
Rdp Session Performance Flags	performanceflags	number	111	RDP performance flags. Please see section 3.4 for more information.
RemoteFX	remotefx	boolean	false	Enable/disable RemoteFX. Works only with LAN and 32 bit.
DNS Lookups	enableLookups	boolean	false	Enable to make calls perform DNS lookups to get the actual hostname of the remote client. Disable to skip DNS lookups and instead return the IP address in the form of a string (which improves performance).
Session cache time (minutes, 0 = disable session cache)	maxCacheTime	number	0	How long sessions should be cached on the gateway (in minutes). 0 disables the RDP session cache.

Name in config.html	Attribute in gateway.conf	Type	Default	Description
Email SMTP Host	mail.smtp.host	string		SMTP host for outgoing emails. You can use java -cp SparkGateway.jar com.toremote.gateway.Mailer title message to send a test email.
Email SMTP Port	mail.smtp.port	number		SMTP port for outgoing emails
Email User	mail.user	string		SMTP user for outgoing emails
Email Password	mail.password	string		SMTP password for outgoing emails
Email From	mail.from	string		Outgoing emails: From
Email to	mail.to	string		Outgoing emails: To
Email SMTP Authentication	mail.smtp.auth	boolean		Server requires authentication
Email TLS	mail.smtp.starttls.enable	boolean		Enable/disable STARTTLS
Symlink	symlink	string		Full path of the symlink definition file, including file name.
License Usage Alert (Email)	licenseAlert	number (float)		Receive an alert by email when the license usage value reaches this value: Value < 1: Usage value as a percentage of the current license. (e.g.: 0.75 = when 75% usage is reached). Value > 1: Value in use as actual concurrent connections (e.g.: 394 = if 394 concurrent connections in use).

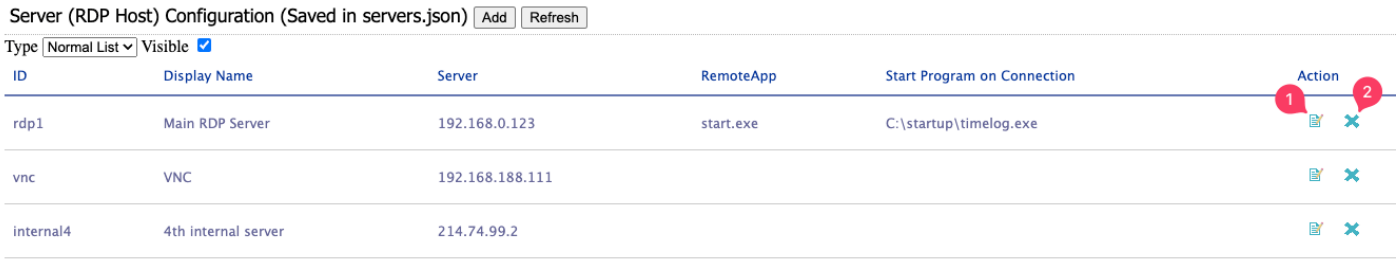
Name in config.html	Attribute in gateway.conf	Type	Default	Description
Interval of thumbnail (milliseconds)	thumbnail.interval	number	0	Interval for receiving thumbnails of the RDP session (in milliseconds). If 0, the client will not send a thumbnail to the server if there are no changes.
Width of thumbnail	thumbnail.width	number	0	Thumbnail width (in pixels), must be smaller than 640. 0 = no thumbnail.
Copy timeout (milliseconds)	copyTimeout	number	3000	Timeout for clipboard redirection (in milliseconds). This value should be increased if you need to copy very large data in your application.
Path of Key Store	keyStore	string		Full path of the keystore file, including file name. Set up keystore or certificate name when ssl is true. For example `keystore.jks` or `cert.pfx`. If you are using a certificate (i.e. `cert.pfx`), a password is required (see keyStorePassword). If you are using a Java keystore (i.e. `keystore.jks`), the password of the keystore must match the one used for the certificate, which is integrated in the keystore.

Name in config.html	Attribute in gateway.conf	Type	Default	Description
Password of Key Store	keyStorePassword	string		Keystore or certificate password. If you are using a Java keystore (i.e. `keystore.jks`), the password of the keystore must match the one used for the certificate, which is integrated in the keystore.
Password Encryption	passwordEncrypted	boolean	false	Encrypt the keystore, management and reporting password. Please use following command to get encrypted password: `java -cp SparkGateway.jar com.toremote.gateway.Encryption MyPassword`
Remote Assistance	assistance	boolean	false	Enable/disable remote assistance.
SSH	ssh	boolean	false	Enable/disable SSH.
TELNET	telnet	boolean	false	Enable/disable Telnet.
Disable Burst License	disableBurstLicense	boolean	false	Enable/disable burst license model.
License status				Displays the current license status.

Server

Here you can see a list of all created servers. If you want to add a new server, just click the "Add" button.

To edit an existing server, simply click on the edit icon (1 in the image), to delete a server, click on the delete icon (2 in the image):



After you click the "Add" button to add a new server, you will get a modal window with the following settings options and tabs. The entries can be included directly in the servers.json in addition to the UI version.

Name in config.html	Attribute in servers.json	Type	Default	Description
ID	id	string		ID for the server, must be unique.
Display Name	displayName	string		Display name for the server
Server	server	string		Host name or IP address of the server
Icon	icon	string		Image file for the server, which is displayed as an icon in the SparkView portal. Please specify the full path incl. filename here.
Protocols	protocols	string	"rdp"	Protocols to use for the server. It is recommended to set a new server entry for each protocol.

RDP

Name in config.html	Attribute in servers.json	Type	Default	Description
Port	port	number	3389	RDP port to use
User	username	string		User name (optional, since solved via users/users.json)
Password	password	string		Password (optional, since solved via user/users.json)
Domain	domain	string		Domain where the RDP server is located

Name in config.html	Attribute in servers.json	Type	Default	Description
Console session	console	boolean	false	Establish console session with RDS
VirtualBox RDP or xrdp	legacyMode	boolean	false	Use XRDP instead of RDP protocol. Can be used for legacy servers and applications, or Linux distributions.
Keyboard Layout	keyboard	number		Keyboard layout to use. See chapter 3.4 for a layout list.
Color Depth	color	number	16	Zu verwendende Farbtiefe
Minimum Width	minWidth	number		Minimum width of the remote RDP window. Normally, this field should not be filled in, because the dimensions are detected automatically.
Minimum Height	minHeight	number		Minimum height of the remote RDP window. Normally, this field should not be filled in, because the dimensions are detected automatically.
Start Program on Connection	command	string		After the connection is established, directly launch an installed program on the remote desktop/server.
Start in following folder	directory	string		Start the program to be launched in a specified folder.
RemoteApp Exe or file	remoteProgram	string		Start only one application via RemoteApp instead of an entire desktop environment. Please specify the entire path incl. file name.

Name in config.html	Attribute in servers.json	Type	Default	Description
RemoteApp Arguments	remoteArgs	string		Arguments to be transferred to the starting RemoteApp
Wake On Lan Mac Address	mac	string		Mac address of the allowed Wake On Lan device. Empty/not set = no Wake On Lan.
Wake On Lan Broadcast IP	macIP	string		Broadcast IP address of the allowed Wake On Lan devices
Clipboard Redirection	mapClipboard	boolean	false	Enable/disable clipboard redirection
Sound Redirection	playSound	number	0	Enable/disable sound playback. 0 = Play sound on this computer; 1 = Do not play sound; 2 = Play sound on the remote computer.
Audio Recording	audioRecord	boolean	false	Recording of all audio tracks of the remote computer.
RDP 6.1 Decompression	decompressingRDP61	boolean	false	Enable/disable RDP 6.1 Compression. The RDP 6.1 bulk compression technique produces better compression ratios than the RDP 6.0 bulk compressor, but also consumes significantly more memory, which can affect scalability of multi-user servers. This compressor is only used for server-to-client traffic (it is not used for client-to-server traffic).
Printer Redirection	mapPrinter	boolean	false	Activate/deactivate (virtual) printer forwarding.

Name in config.html	Attribute in servers.json	Type	Default	Description
Session Recording	sessionRecord	number	0	Enable/disable session recording. 0 = no session recording; 1 = record graphics only; 3 = record graphics and sound.
Drive Redirection	mapDisk	boolean	false	Enable/disable disk redirektion.
Drive 0 - Dos Name	disks.dosName	string		For the 1st disk: DOS name
Drive 0 - Path	disks.devicePath	string		For the 1st plate: Full path to the plate
Drive 0 - Actions	disks.actions	number	7	For the 1st plate: permissions in the octal procedure
Drive 1 - Dos Name	disks.dosName	string		For the 2nd disk: DOS name
Drive 1 - Path	disks.devicePath	string		For the 2nd plate: Full path to the plate
Drive 1 - Actions	disks.actions	number	1	For the 2nd disk: enable/disable redirect
Drive 2 - Dos Name	disks.dosName	string		For the 3rd disk: DOS name
Drive 2 - Path	disks.devicePath	string		For the 3rd plate: Full path to the plate
Drive 2 - Actions	disks.actions	number	1	For the 3rd disk: enable/disable redirect
Performance Flags	performanceflags	number	111	Performance flags for this connection. For more information about the performance flags, see chapter 3.4.
Network Level Authentication (credSSP)	credSSP	number	0	Enable/disable NLA. 0 = no NLA; 1 = enable NLA; 2 = automatically detect NLA based on server settings.

Name in config.html	Attribute in servers.json	Type	Default	Description
RemoteFX (32 bit color only)	remotefx	boolean	false	Enable/disable RemoteFX. RemoteFX only works with a color depth of 32 bit and under LAN.
Smart Card Redirection	smartCard	boolean	false	Enable/disable Smart Card Redirection.
Camera Redirection	mapCamera	boolean	false	Enable/disable camera/webcam redirection.
USB Redirection	mapUSB	boolean	false	Enable/disable USB Redirection.
Load Balance Info	loadBalanceInfo	string		Load balance information for the use of multiple gateways.
Single Sign-on	sso	boolean	true	Use single sign-on for this specific server/connection.

VNC

Name in config.html	Attribute in servers.json	Type	Default	Description
Port	port	number	5900	VNC port to use
Password	password	string		Password (optional, since solved via user/users.json)
Encoding	encoding	number	16	Coding for the VNC connection. Can be 16 (ZRLE), 7 (Raw) or 0 (Tight).
JPEG Quality	quality	number	5	Quality of the transferred images (in JPEG format). Significantly affects the performance.
ZIP/Tight Compression	compression	number	6	Level of compression. Significantly affects the performance.

Name in config.html	Attribute in servers.json	Type	Default	Description
Use CopyRect encoding	UseCopyRect	boolean	true	Enables/disables CopyRect Encoding. The CopyRect encoding is efficient when something is being moved. CopyRect could also be used to efficiently transmit a repeated pattern.
Colors	color	number	32	Displayed colors during the VNC connection. 256 colors should be used for slow connections with limited bandwidth.
Share the server	share	boolean	true	Share the session with other viewers.
Clipboard redirection	mapClipboard	boolean	true	Enables/disables clipboard redirection.
Session Recording	sessionRecord	number	0	Enable/disable session recording. 0 = no session recording; 1 = record graphics only; 3 = record graphics and sound.

SSH

Name in config.html	Attribute in servers.json	Type	Default	Description
Port	port	number	22	SSH port to use
User	username	string		User name (optional, since solved via user/users.json)
Password	password	string		Password (optional, since solved via user/users.json)
Font Size	fontSize	number	13	Font size used in the displayed terminal.
Clipboard	mapClipboard	boolean	true	Enables/disables clipboard redirection.

Name in config.html	Attribute in servers.json	Type	Default	Description
Session Recording	sessionRecord	number	0	Enable/disable session recording. 0 = no session recording; 1 = record graphics only; 3 = record graphics and sound.
Key File	keyfile	string		Full path to the key file in PEM format incl. file name. For more information on SSH authentication via keys, see chapter 5.7.
Password of Key File	keyfilePwd	string		Key file password
Terminal Type	terminalType	string	"xterm"	Terminal type

Telnet

Name in config.html	Attribute in servers.json	Type	Default	Description
Port	port	number	23	Telnet port to use
Font Size	fontSize	number	13	Font size used in the displayed terminal.
Clipboard	mapClipboard	boolean	true	Enables/disables clipboard redirection.
Session Recording	sessionRecord	number	0	Enable/disable session recording. 0 = no session recording; 1 = record graphics only; 3 = record graphics and sound.

HTTP/S

Name in config.html	Attribute in servers.json	Type	Default	Description
Scheme	scheme	string	"https"	Scheme used. Only HTTP and HTTPS are possible here.
Port	port	number	443	HTTP/S port to use

Name in config.html	Attribute in servers.json	Type	Default	Description
Replace absolute links	replaceAbsoluteLink	boolean	false	
Add forward headers	addForwardHeaders	boolean	false	Add `X-Forwarded-For` and `X-Forwarded-Proto` HTTP headers to request.

See chapter 3.30 for more information on the HTTP/S proxy.

User

With SparkView, you basically have several options to integrate users:

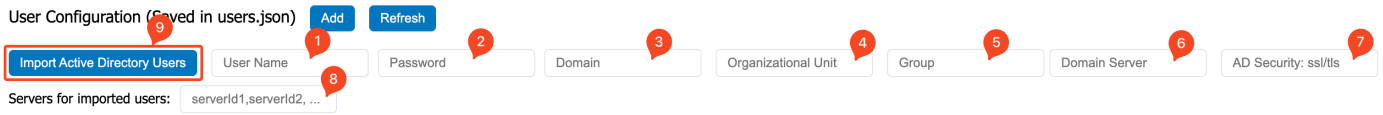
- Local user database
- Connection through Azure AD, Active Directory or LDAP
- Connection through RADIUS

You can use config.html to import users from an Active Directory (once) and create users manually from the beginning. Please make connections to Azure AD, Active Directory, LDAP or RADIUS directly in the users.json file. For the sake of simplicity, there is a SparkView Customizer that creates the users configurations for the users.json file.

Click here to get to the customizer →

Import users

To import users from Active Directory, enter all the details in the fields provided and then click the Import Active Directory Users button. In addition to an organizational unit (OU), you can also define a group (5) from which the users are to be imported. You can also assign servers to the new users during import (8) so that this does not have to be done manually for each user.



Add users manually

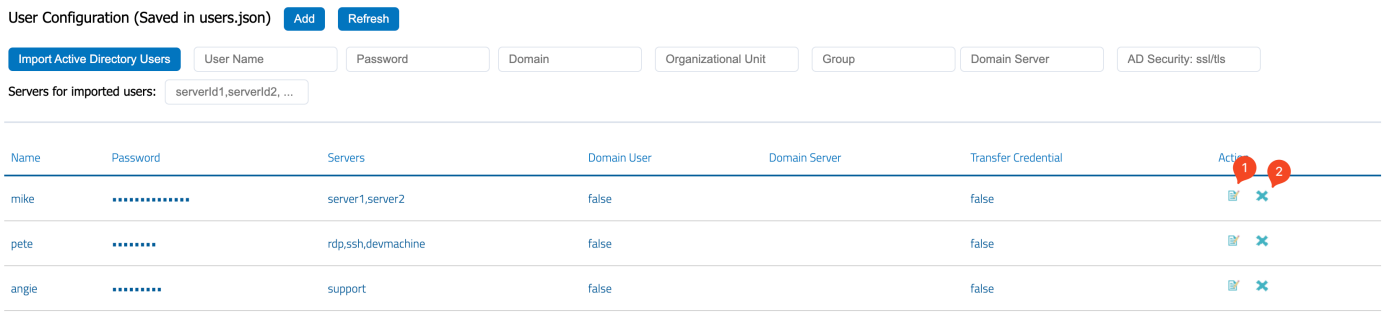
To add users manually, click the "Add" button. Then you have the following configuration options. The name corresponds to the attribute name, which can be written directly to the users.json file.

Name in config.html	Attribute in users.json	Type	Default	Description

Name	name	string		Username (recommended without special characters and spaces)
Password	password	string		Password of the user. If it is a domain user, enter `***` as the password.
Servers	servers	array		Shared servers for the user. Enter the server IDs comma-separated and without spaces, or select them from the list.
Domain user	isDomainUser	boolean	false	Specify whether the user is a domain user.
Domain Server	domainServer	string		Full address of the domain server
Transfer Credential to Connection	transferCredential	boolean	false	Forward connection data to the connecting targets. For this purpose, the user name and password entered here must match the access data on the target device.
Host Name (RDP)	clientHost	string		Displayed name of the client/user for RDP connections.

Edit/delete users

In the list view, users can be edited via the edit icon (1) and deleted via the delete icon (2).

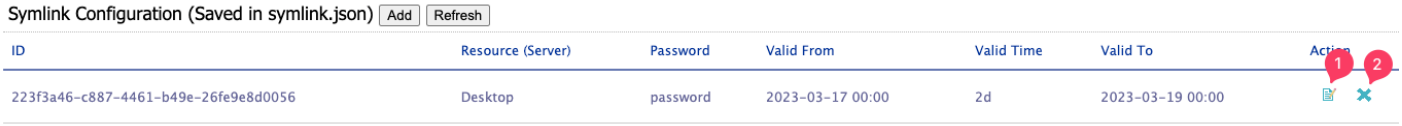


Symlink

Symlinks can be created and used for direct connection of targets. The symlinks are stored inside SparkView in the `/data/symlink.json` file. Click the "Add" button to add a new symlink. You will then get a modal window again with the following configuration options:

Name in config.html	Attribute in symlink.json	Type	Default	Description
ID	id	string	Dynamic value	Unique ID of the symlink. This ID is generated automatically and should not be changed.
Password	password	string		Password that is given to the symlink as a parameter.
Resource (Server)	resourceId	string		ID of the target system. Can be entered manually or selected from the list.
Valid From	validFrom	string		Validity of the symlink: From when
Valid Time	validTime	string		Validity period of the symlink, e.g. "2d". y = year; M = month; d = day h = hour; m = minute.
or Valid To	validTo	string		Alternatively to the validity period: Until when
Parameters for target	parameters	string		Additional parameters for the symlink. To be entered in URL-encoded form (e.g. user=userName&domain=local).
Comment	comment	string		Comment that is displayed in the edit view.
Access link				Using the Access link, you can call the symlink directly from the form and the symlink does not have to be saved first.

In the list view, symlinks can be edited via the edit icon (1) and deleted via the delete icon (2).



Session

In SparkView können Sie über den Session-Tab alle aktiven Session beobachten. Außerdem können Sie über eine JavaScript Konsole Nachrichten an einzelne oder alle Session schicken:

`sparkConfig.notify('My message');`
→ Sendet eine Nachricht an alle aktiven Sessions.

`sparkConfig.notify('My message', [123456789, 123456788]);`
→ Sendet eine Nachricht an die aktiven Sessions „123456789“ und „123456788“.

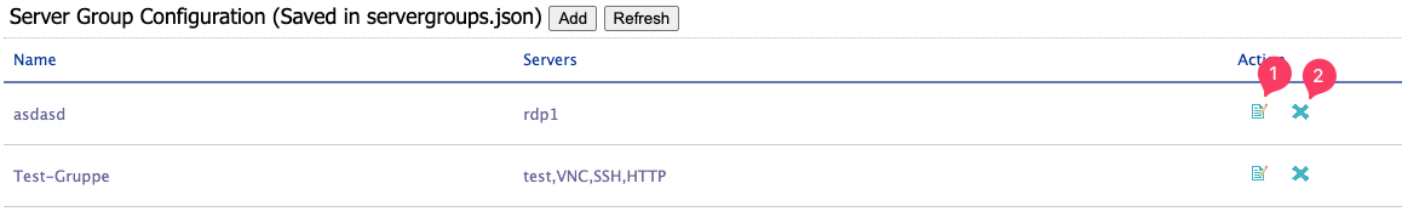
Server Group

Individual servers can be grouped into server groups for better and easier organization. The created server groups are stored in SparkView in the `/data/servergroups.json` file.

To add a new server group, click the "Add" button. You will then get a modal window again with the following configuration options:

Name in config.html	Attribute in servergroups.json	Type	Default	Description
Name	name	string		Name of the server group
Servers	servers	array		Servers to be entered into the server group. The server IDs are entered comma-separated, or selected with the help of the list.

In the list view, server groups can be edited via the edit icon (1) and deleted via the delete icon (2).



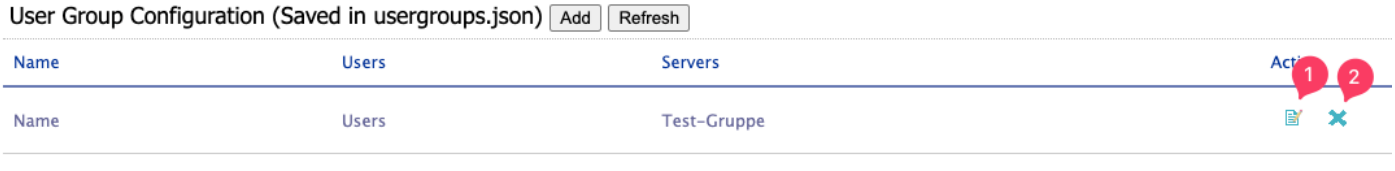
User Group

Individual users can be grouped into user groups for better and easier organization. User groups can be given access to server groups. The created user groups are stored in SparkView in the `/data/usergroups.json` file.

To add a new user group, click the "Add" button. You will then get a modal window again with the following configuration options:

Name in config.html	Attribute in usergroups.json	Type	Default	Description
Name	name	string		User group name
Users	users	array		Users to be entered into the user group. The user IDs are entered comma-separated, or selected with the help of the list.
Server Groups	servers	array		Server groups to which the user group should have access. The server group IDs are entered comma-separated, or selected with the help of the list.

In the list view, user groups can be edited via the edit icon (1) and deleted via the delete icon (2).



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