

# Samurai

**Library version:** RENAT 0.1.11  
**Library scope:** test suite  
**Named arguments:** supported

## Introduction

A library provides functions to control Samurai application

The library utilize *SeleniumLibrary* and adds more functions to control Samurai application easily. Without other furthur mentions, all of the concepts of `user`, `user group` are Samurai concepts. By default, RENAT will try to connec to all Samurai nodes defined in active `local.yaml` at the beginning of the test and disconnect from them at the end of the test automatically. Usually user does not need to use `ConnectAll` and `Close` explicitly.

Currently, this module supposed that Samurai is used in Japanese locale. When Samurai module has error, it tried to make the last snapshot in `result/selenium-screenshot-x.png`. Checking this capture will help to understand the reason of the error.

Currently the module support Samurai 09/14/16

Some keywords of `Samurai` is using `xpath` to identify elements. See *Selenium2Library* for more details about xpath.

See *WebApp* for common keywords of web applications and how to configure the `local.yaml` file.

*Selenium2Library* keywords still could be used together within this library. See *Selenium2Library* for more details.

## Shortcuts

**Add Policy** · **Add Policy Group** · **Add User** · **Capture Screenshot** · **Change Policy View Group** · **Click All Elements** · **Close** · **Close All** · **Close Window** · **Connect** · **Connect All** · **Delete Policy** · **Delete Policy Group** · **Delete User** · **Edit Mitigation Controller** · **Edit Policy** · **Get Mitigation List** · **Get Verbose** · **Left Menu** · **Login** · **Logout** · **Make Item Map** · **Open Ff With Profile** · **Reconnect** · **Reset Capture Counter** · **Select Items In Table** · **Select Window** · **Set Ajax Wait** · **Set Capture Counter** · **Set Capture Format** · **Set Verbose** · **Show Detail Mitigation** · **Show Policy Basic** · **Show Policy Detection** · **Show Policy Display** · **Show Policy Mitigation** · **Show Policy Mo** · **Show Policy Monitor** · **Show Policy Notify** · **Show Policy Nw Monitor** · **Show Policy Traffic** · **Start Mitigation** · **Stop Mitigation** · **Switch** · **Update Mitigation Controller Info** · **Verbose Capture**

## Keywords

Keyword	Arguments	Documentation			
Add Policy	**policy	Adds a new Samurai policy			
		policy is a map containing the below information to create the new policy.			
		key	meaning	mandatory	sample
		name	name of the policy	yes	test001
		basic_alias	alias name of the policy		test001
		basic_port_id	another alias		
		basic_facing	customer or backbone		customer
		basic_intf_list	list of router and interface pair, separated by comma	yes	10.128.18.31:xe-0/0/0.1
		basic_cidr_list	list of CIDR separate by comma		
		basic_option_filter	optinal filter		
		basic_direction	direction of the traffic (incoming or outgoing)		Incoming
		traffic_enabled	Enable traffic monitoring or not	yes	\${TRUE} or \${FALSE}
		detection_enabled	Enable detection or not	yes	\${TRUE} or \${FALSE}
		mitigation_enabled	Enable Mitigation or not	yes	\${TRUE} or \${FALSE}
		mitigation_zone_name	Name of the zone for mitigation		zone001
		mitigation_zone_prefix	Prefixes that could mitigate		1.1.1.1/32
		mitigation_thr_bps	Upper limit (bps)		800,000,000
		mitigation_thr_pps	Upper limit (pps)		54,000,000
		mitigation_auto_enabled	Enable automitgation or not		\${TRUE} or \${FALSE}
		mitigation_auto_level	Automitigation level		0:overLow 1:overMedium 2:High
		mitigation_auto_time	Automitigation detect attack time (min)		default is 15
		mitigation_mo_enabled	Using Arbor TMS MO or not	yes	\${TRUE} or \${FALSE}
		mitigation_auto_stop_enabled	Enable automitgation stop or not		\${TRUE} or \${FALSE}
		mitigation_auto_stop_level	Automitigation level		0:overLow 2:High
		mitigation_auto_stop_time	Automitigation stop detect attack time (min)		default is 15
		mitigation_device_list	Devices used for TMS, separated by comma		ArborSP-A
		mitigation_mo_name	MO name, separated by comma		OCN12(ALU)_LOOSE
		mitigation_comm_list	commna separated peer/community list		1.10(180.0.1.10)/2914:666,1.11(180.0.1.11)/2914:777
		nw_monitor_gre1	1st GRE address for NW monitor		210.0.1.1
		nw_monitor_gre2	2nd GRE address for NW monitor		210.0.1.1
		nw_monitor_ce1	1st CE address for NW monitor		210.0.1.2
nw_monitor_ce2	2nd CE address for NW		210.0.1.2		

		<table><tr><td>nw_monitor_pe1</td><td>monitor</td><td></td><td>edge01hige-MX2020-15(118.23.176.244)</td></tr><tr><td>nw_monitor_pe2</td><td>1st PE for NW monitor (list)</td><td></td><td>edge01hige-MX2020-15(118.23.176.244)</td></tr><tr><td>event_name</td><td>name of the message event to make</td><td></td><td>info1</td></tr><tr><td>event_addr</td><td>address to send the events</td><td></td><td>user@mail.com</td></tr><tr><td>view_group</td><td>user group that could view this policy, separated by comma</td><td>yes</td><td>SuperGroup,test_group_007</td></tr></table>	nw_monitor_pe1	monitor		edge01hige-MX2020-15(118.23.176.244)	nw_monitor_pe2	1st PE for NW monitor (list)		edge01hige-MX2020-15(118.23.176.244)	event_name	name of the message event to make		info1	event_addr	address to send the events		user@mail.com	view_group	user group that could view this policy, separated by comma	yes	SuperGroup,test_group_007																				
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		Example: <table><tr><td>Samurai.<a href="#">Switch</a></td><td>samurai-1</td><td></td></tr><tr><td>Samurai.<a href="#">Add Policy</a></td><td>name=\${POLICY_NAME}</td><td>basic_alias=\${POLICY_NAME}</td></tr><tr><td>...</td><td>basic_facing=customer</td><td>basic_intf_list=10.128.18.31:xe-0/0/0.1</td></tr><tr><td>...</td><td>basic_cidr_list=1.1.1.0/24</td><td>basic_direction=incoming</td></tr><tr><td>...</td><td>traffic_enabled=\${TRUE}</td><td></td></tr><tr><td>...</td><td>detection_enabled=\${TRUE}</td><td></td></tr><tr><td>...</td><td>mitigation_zone_name=test_zone001</td><td>mitigation_zone_prefix=1.1.1.1/32</td></tr><tr><td>...</td><td>mitigation_device_list=ArborSP-A,ArborSP-B</td><td></td></tr><tr><td>...</td><td>mitigation_mo_enabled=\${TRUE}</td><td></td></tr><tr><td>...</td><td>mitigation_mo_name=N000000012_LOOSE</td><td></td></tr><tr><td>...</td><td>mitigation_comm_list=1.10(180.0.1.10)/2914:666,1.11(180.0.1.11)/2914:777</td><td></td></tr><tr><td>...</td><td>event_name=test</td><td>event_addr=user@mail.com</td></tr><tr><td>...</td><td>view_group=SuperGroup</td><td></td></tr></table>		Samurai. <a href="#">Switch</a>	samurai-1		Samurai. <a href="#">Add Policy</a>	name=\${POLICY_NAME}	basic_alias=\${POLICY_NAME}	...	basic_facing=customer	basic_intf_list=10.128.18.31:xe-0/0/0.1	...	basic_cidr_list=1.1.1.0/24	basic_direction=incoming	...	traffic_enabled=\${TRUE}		...	detection_enabled=\${TRUE}		...	mitigation_zone_name=test_zone001	mitigation_zone_prefix=1.1.1.1/32	...	mitigation_device_list=ArborSP-A,ArborSP-B		...	mitigation_mo_enabled=\${TRUE}		...	mitigation_mo_name=N000000012_LOOSE		...	mitigation_comm_list=1.10(180.0.1.10)/2914:666,1.11(180.0.1.11)/2914:777		...	event_name=test	event_addr=user@mail.com	...	view_group=SuperGroup	
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Add Policy Group	group_name, policy_list=*, limit_bps=4000000000, limit_pps=2700000	Add a new policy group  group_name is the name of the new group. policy_list is a comma separated of existed policy that should be bound to this policy. An asterisk for this parameter ( * ) means <i>all of the existed policy</i> . limit_bps and limit_pps are the mitigation capacity threshold of this group.																																								
Add User	group, **user_info	Adds user to the current group user_info is a dictionary contains user information that has following keys: name , password , privilege and policy  privilege is existed privilege that has been created (e.g: system_admin.  policy could be * for all current policies or a list of policy names that are binded to this user.  group is the user group. Dot(.) means current group  Examples: <table><tr><td>Samurai.<a href="#">Add User</a></td><td>OCNDDoS</td><td>name=user000</td><td>password=Test12345678</td></tr><tr><td>...</td><td>privilege=system_admin</td><td>policy=*</td><td></td></tr><tr><td>Samurai.<a href="#">Add User</a></td><td>OCNDDoS</td><td>username=user001</td><td>password=Test12345678</td></tr><tr><td>...</td><td>privilege=system_admin</td><td>policy=OCN11,OCN12</td><td></td></tr></table>		Samurai. <a href="#">Add User</a>	OCNDDoS	name=user000	password=Test12345678	...	privilege=system_admin	policy=*		Samurai. <a href="#">Add User</a>	OCNDDoS	username=user001	password=Test12345678	...	privilege=system_admin	policy=OCN11,OCN12																								
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Capture Screenshot	filename=None, extra=	Captures the current screen to file  Using the internal counter for filename if filename is not specified. In this case, the filename is defined by a pre-set format. <a href="#">Set Capture Format</a> could be used to change the current format.  An extra information will be add to the filename if extra is defined  Examples: <table><tr><td>Samurai.<a href="#">Capture Screenshot</a></td><td></td><td># samurai_0000000001.png</td></tr><tr><td>Samurai.<a href="#">Capture Screenshot</a></td><td>extra=_list</td><td># samurai_0000000002_list.png</td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td></td><td># arbor_0000000001.png</td></tr><tr><td>Arbor.<a href="#">Capture Screenshot</a></td><td>extra=_xxx</td><td># arbor_0000000001_xxx.png</td></tr><tr><td>Samurai.<a href="#">Capture Screenshot</a></td><td>filename=1111.png</td><td># 1111.png</td></tr></table>		Samurai. <a href="#">Capture Screenshot</a>		# samurai_0000000001.png	Samurai. <a href="#">Capture Screenshot</a>	extra=_list	# samurai_0000000002_list.png	Arbor. <a href="#">Capture Screenshot</a>		# arbor_0000000001.png	Arbor. <a href="#">Capture Screenshot</a>	extra=_xxx	# arbor_0000000001_xxx.png	Samurai. <a href="#">Capture Screenshot</a>	filename=1111.png	# 1111.png																								
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Change Policy View Group	name, *group_name	Changes the groups that could see this policy  name is the policy name. group_name is a list of policies  Example: <table><tr><td>Samurai.<a href="#">Change Policy View Group</a></td><td>super_admin</td><td>test_group001</td></tr></table>		Samurai. <a href="#">Change Policy View Group</a>	super_admin	test_group001																																				
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Click All Elements	xpath	Click all element in current page defined by xpath  Returns the number of elements that have been clicked																																								
Close		Close the web application																																								
Close All		Closes all current opened applications																																								
Close Window		Closes the current window																																								
Connect	app, name	Opens a web browser and connects to application and assigns a name .  ■ app is the name of the application (e.ge. samurai-1) ■ name is the name of the browser  If not defined in local.yaml those following key will have default values: <table><tr><td>browser</td><td>firefox</td><td>optional</td></tr><tr><td>login_url</td><td>/</td><td>optiona</td></tr><tr><td>proxy:</td><td></td><td>optional</td></tr><tr><td>http: 10.128.8.210:8080</td><td>optional</td><td></td></tr><tr><td>ssl: 10.128.8.210:8080</td><td>optional</td><td></td></tr><tr><td>socks: 10.128.8.210:8080</td><td>optional</td><td></td></tr></table>		browser	firefox	optional	login_url	/	optiona	proxy:		optional	http: 10.128.8.210:8080	optional		ssl: 10.128.8.210:8080	optional		socks: 10.128.8.210:8080	optional																						
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Connect All		Connects to all applications defined in <code>local.yaml</code>  The name of the connection will be the same of the <i>webapp</i> name																				
Delete Policy	<i>*policy_names</i>	Deletes poiclies by their names  Returned the number of deleted users  <b>Notes:</b> If the policy does not exists, the system will not report any error.  Examples: <table><tr><td>Samurai.</td><td><i>Delete Policy</i></td><td>test001</td><td>test002</td></tr></table>	Samurai.	<i>Delete Policy</i>	test001	test002																
Samurai.	<i>Delete Policy</i>	test001	test002																			
Delete Policy Group	<i>*group_list</i>	Deletes policy groups  See <i>Select Items In Table</i> for more detail about how to choose <i>group_list</i>  Returns the number of deleted policy groups Example: <table><tr><td>Samurai.</td><td><i>Delete Policy Group</i></td><td>test_group001</td><td>test_group002</td></tr></table>	Samurai.	<i>Delete Policy Group</i>	test_group001	test_group002																
Samurai.	<i>Delete Policy Group</i>	test_group001	test_group002																			
Delete User	<i>group, *user_list</i>	Deletes user from the user group  <code>group</code> is the user group. And <code>.</code> means current group Returns the number of deleted users  Examples: <table><tr><td>Samurai.</td><td><i>Delete User</i></td><td>SuperGroup</td><td>user001</td><td>user002</td></tr><tr><td>Samurai.</td><td><i>Delete User</i></td><td>.</td><td>user002</td><td></td></tr></table>	Samurai.	<i>Delete User</i>	SuperGroup	user001	user002	Samurai.	<i>Delete User</i>	.	user002											
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Edit Mitigation Controller	<i>controller, **config</i>	Change the setting of the mitigation control  <ul style="list-style-type: none"><li><code>control</code>: name of the mitigation controller</li><li><code>config</code>: configuration need to be changed. Currently only <code>tms_group</code> is configurable with the following format: <code>groupname1.action1.groupname2.action2</code>. <code>groupname</code> is currently set TMS group name and action could be <i>click</i>, <i>check</i> or <i>uncheck</i>.</li></ul> Example: <table><tr><td>Samurai.</td><td><i>Edit Mitigation Controller</i></td><td>controller=vSP-A</td><td>tms_group=Logical0_SOCN_IPv4:uncheck</td></tr></table>	Samurai.	<i>Edit Mitigation Controller</i>	controller=vSP-A	tms_group=Logical0_SOCN_IPv4:uncheck																
Samurai.	<i>Edit Mitigation Controller</i>	controller=vSP-A	tms_group=Logical0_SOCN_IPv4:uncheck																			
Edit Policy	<i>**policy</i>	Edits a Samurai policy  <code>policy</code> contains information about the policy. See <i>Add Policy</i> for more details about <code>policy</code> format																				
Get Mitigation List	<i>status=実行中</i>	Gets current mitigation list  Return current active mitgation name, ID and the number of them  Example: <table><tr><td>\$(MITI)</td><td>\$(IDS)</td><td>\$(NUM)=</td><td>Samurai.</td><td><i>Get Mitigation List</i></td></tr></table>	\$(MITI)	\$(IDS)	\$(NUM)=	Samurai.	<i>Get Mitigation List</i>															
\$(MITI)	\$(IDS)	\$(NUM)=	Samurai.	<i>Get Mitigation List</i>																		
Get Verbose		Get current verbose mode																				
Left Menu	<i>menu, locator=None, ignore_first_element=True</i>	Chooses the left panel menu by its displayed name  When <code>locator</code> is not null, the keyword will return a list of text attribute of all elements specified by the <code>locator</code> . <code>locator</code> could be a xpath or a predefined string.  <code>locator</code> predefined strings are: <code>MITIGATE_REALTIME</code> , <code>MITIGATE_LIST</code> , <code>DETECT_LIST</code>  For example, a xpath <code>//div[@id='infoareain2']/td[1]/a</code> means the list of <i>link</i> of all elements in a 1st column of a table insides a <code>div</code> with id <code>infoareain2</code> .  Examples: <table><tr><td>Samurai.</td><td><i>Left Menu</i></td><td>Traffic</td><td></td><td></td></tr><tr><td>Samurai.</td><td><i>Left Menu</i></td><td>Detection</td><td></td><td></td></tr><tr><td>Samurai.</td><td><i>Left Menu</i></td><td>ポリシー管理</td><td></td><td></td></tr><tr><td>@{LIST}=</td><td>Samurai.</td><td><i>Left Menu</i></td><td>Active Mitigation</td><td><code>//div[@id='infoareain2']/td[1]/a</code></td></tr></table>	Samurai.	<i>Left Menu</i>	Traffic			Samurai.	<i>Left Menu</i>	Detection			Samurai.	<i>Left Menu</i>	ポリシー管理			@{LIST}=	Samurai.	<i>Left Menu</i>	Active Mitigation	<code>//div[@id='infoareain2']/td[1]/a</code>
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Login		Logs-in into the application  User and password is set by the template and authentication methods in the master files																				
Logout		Logs-out the current application, the browser remains																				
Make Item Map	<i>xpath</i>	Makes a item/webelement defined <i>xpath</i>  The map is a dictionary from <i>item</i> to the <i>WebElement</i> Items name found by <code>xpath</code> are used as keys																				
Open Ff With Profile	<i>app, name</i>																					
Reconnect		Reconnects to the server																				
Reset Capture Counter		Resets the counter of the screen capture																				
Select Items In Table	<i>xpath, xpath2, *item_list</i>	Checks items in Samurai table by xpath  <code>xpath</code> points to the column that used as key and <code>xpath2</code> is the relative xpath contains the target column.  <code>item_list</code> is a list of item and its action that need to check. Item in the list could be a regular expresion with the format <code>re: &lt;regular expression&gt; action</code> .  The default action for the item could be <code>click`<i>(default)</i>`</code> , <code>check</code> or <code>uncheck</code>  The keyword is called with assuming that the table is already visible.  Returns the tuple of all items and selected items  <b>Note:</b> Non-width-space ( <code>\u200b</code> ) will be take care by the keyword.  <b>Note:</b> if the first <code>item_list</code> is <code>*</code> then the keyword will try to click a link named <code>すべてを選択</code> .																				
Select Window	<i>title</i>	Selects a window by its title																				
Set Ajax Wait	<i>wait_time=2s</i>	Set the ajax wait time																				

<b>Set Capture Counter</b>	<i>value=0</i>	Sets the counter of the screen capture to <code>value</code>
<b>Set Capture Format</b>	<i>format</i>	<p>Sets the format for the screen capture file</p> <p>The format does not include the default prefix <code>.png</code>. The default format is <code>&lt;mod&gt;_%010d.</code>. <code>mod</code> could be <code>samurai</code> or <code>arbor</code></p> <p>See <a href="https://docs.python.org/2/library/string.html#format-specification-mini-language">https://docs.python.org/2/library/string.html#format-specification-mini-language</a> for more details about the format string.</p> <p>Examples:</p> <pre>Samurai.Set Capture Format \${case}_%010d # \${case} is a predefined variable</pre>
<b>Set Verbose</b>	<i>verbose=False</i>	Set current verbose mode to <code>verbose</code>
<b>Show Detail Mitigation</b>	<i>id</i>	Shows detail information of a mitigation
<b>Show Policy Basic</b>	<i>policy_name</i>	<p>Makes the virtual browser show basic setting of the policy <code>name</code>.</p> <p>A following Samurai <a href="#">Capture Screenshot</a> is necessary to capture the result.</p>
<b>Show Policy Detection</b>	<i>policy_name</i>	Shows the detection panel of <code>policy_name</code> policy
<b>Show Policy Display</b>	<i>policy_name</i>	<p>Make a virtual browser show the display setting of a policy</p> <p><b>Notes:</b> Depending on the setting of the policy, MO panel may not be existed. In this case, if <code>strict</code> is <code>True</code>, then the keyword will fail.</p>
<b>Show Policy Mitigation</b>	<i>policy_name</i>	Make the virtual browser show the mitigation setting of a policy
<b>Show Policy Mo</b>	<i>policy_name, strict=False</i>	<p>Make the virtual browser show the MO setting of a policy</p> <p>Automatically expand the MO section of other devices. <b>Notes:</b> Depending on the setting of the policy, MO panel may not be existed. In this case, if <code>strict</code> is <code>True</code>, then the keyword will fail.</p>
<b>Show Policy Monitor</b>	<i>policy_name</i>	
<b>Show Policy Notify</b>	<i>policy_name</i>	Make a virtual browser show the mitigation setting of a policy
<b>Show Policy Nw Monitor</b>	<i>policy_name, strict=False</i>	<p>Make a virtual browser show the NW monitor setting of a policy</p> <p><b>Notes:</b> Depending on the setting of the policy, MO panel may not be existed. In this case, if <code>strict</code> is <code>True</code>, then the keyword will fail.</p>
<b>Show Policy Traffic</b>	<i>policy_name</i>	<p>Makes the virtual browser show the traffic setting of the policy <code>name</code>.</p> <p>A following Samurai <a href="#">Capture Screenshot</a> is necessary to capture the result.</p>
<b>Start Mitigation</b>	<i>policy, prefix, comment=mitigation started by RENAT, device=None, force=False</i>	<p>Starts a mitigation with specific <code>prefix</code></p> <p><code>device</code> is used for matching real device name configured by Samurai. If <code>force</code> is <code>TRUE</code> then the keyword will fail if selected device does not contain <code>device</code></p> <p>Returns mitigation <code>id</code> and selected <code>arbor</code> device</p> <p>Example:</p> <pre>\${id} \${device}= Samurai.Start Mitigation 211.1.12.1/32 mitigation by RENAT SP-A \${TRUE}</pre>
<b>Stop Mitigation</b>	<i>id, raise_error=True</i>	<p>Stops a mitigation by its ID</p> <p>The keyword will raise an error if <code>raise_error</code> is <code>True</code>. Otherwise it will ignore any errors.</p> <p>Example:</p> <pre>Samurai.Stop Mitigation 700</pre>
<b>Switch</b>	<i>name</i>	Switches the current browser to <code>name</code>
<b>Update Mitigation Controller Info</b>	<i>controller, wait=10s</i>	Updates information of <code>controller</code>
<b>Verbose Capture</b>	<i>*args, **kwargs</i>	Capture screenshot if verbose mode is <code>True</code> otherwise do nothing

