

Samurai

Library version: RENAT 0.1.9
Library scope: test suite
Named arguments: supported

Introduction

A library provides functions to control Samurai application

The library utilize *Selenium2Library* 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** · **Left Menu** · **Login** · **Logout** · **Make Item Map** · **Reset Capture Counter** · **Select Items In Table** · **Select Window** · **Set Ajax Wait** · **Set Capture Counter** · **Set Capture Format** · **Show Detail Mitigation** · **Show Policy Basic** · **Show Policy Mitigation** · **Show Policy Mo** · **Show Policy Monitor** · **Start Mitigation** · **Stop Mitigation** · **Switch**

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 monitor		210.0.1.2		

		<table><tr><td>nw_monitor_pe1</td><td>1st PE for NW monitor (list)</td><td></td><td>edge01hige-MX2020-15(118.23.176.244)</td></tr><tr><td>nw_monitor_pe2</td><td>2nd 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> <p>Example:</p> <table><tr><td>Samurai.Switch</td><td>samurai-1</td><td></td><td></td></tr><tr><td>Samurai.Add Policy</td><td>name=\${POLICY_NAME}</td><td></td><td>basic_alias=\${POLICY_NAME}</td></tr><tr><td>...</td><td>basic_facing=customer</td><td></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></td><td>basic_direction=incoming</td></tr><tr><td>...</td><td>traffic_enabled=\${TRUE}</td><td></td><td></td></tr><tr><td>...</td><td>detection_enabled=\${TRUE}</td><td></td><td></td></tr><tr><td>...</td><td>mitigation_zone_name=test_zone001</td><td></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><td></td></tr><tr><td>...</td><td>mitigation_mo_enabled=\${TRUE}</td><td></td><td></td></tr><tr><td>...</td><td>mitigation_mo_name=N000000012_LOOSE</td><td></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><td></td></tr><tr><td>...</td><td>event_name=test</td><td></td><td>event_addr=user@mail.com</td></tr><tr><td>...</td><td>view_group=SuperGroup</td><td></td><td></td></tr></table>	nw_monitor_pe1	1st PE for NW monitor (list)		edge01hige-MX2020-15(118.23.176.244)	nw_monitor_pe2	2nd 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	Samurai. Switch	samurai-1			Samurai. Add Policy	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 all of the existed policy. 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.Add User</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.Add User</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. Add User	OCNDDoS	name=user000	password=Test12345678	...	privilege=system_admin	policy=*		Samurai. Add User	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. Set Capture Format 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.Capture Screenshot</td><td></td><td># samurai_0000000001.png</td></tr><tr><td>Samurai.Capture Screenshot</td><td>extra=_list</td><td># samurai_0000000002_list.png</td></tr><tr><td>Arbor.Capture Screenshot</td><td></td><td># arbor_0000000001.png</td></tr><tr><td>Arbor.Capture Screenshot</td><td>extra=_xxx</td><td># arbor_0000000001_xxx.png</td></tr><tr><td>Samurai.Capture Screenshot</td><td>filename=1111.png</td><td># 1111.png</td></tr></table>		Samurai. Capture Screenshot		# samurai_0000000001.png	Samurai. Capture Screenshot	extra=_list	# samurai_0000000002_list.png	Arbor. Capture Screenshot		# arbor_0000000001.png	Arbor. Capture Screenshot	extra=_xxx	# arbor_0000000001_xxx.png	Samurai. Capture Screenshot	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.Change Policy View Group</td><td>super_admin</td><td>test_group001</td></tr></table>		Samurai. Change Policy View Group	super_admin	test_group001																																																																				
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Click All Elements	xpath	Click all element in current page defined by xpath																																																																								
Close		Returns the number of elements that have been clicked Closes the current active browser																																																																								
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. 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><tr><td>profile_dir</td><td>./config/samurai.profile</td><td>optional</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		profile_dir	./config/samurai.profile	optional																																																		
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Connect All		Connects to all applications defined in local.yaml The name of the connection will be the same of the webapp name																																																																								
Delete Policy	*policy_names	Deletes poilcies by their names																																																																								

		<p>Returned the number of deleted users</p> <p>Notes: If the policy does not exists, the system will not report any error.</p> <p>Examples:</p> <table><tr><td>Samurai.</td><td>Delete Policy</td><td>test001</td><td>test002</td></tr></table>	Samurai.	Delete Policy	test001	test002																
Samurai.	Delete Policy	test001	test002																			
Delete Policy Group	*group_list	<p>Deletes policy groups</p> <p>Returns the number of deleted policy groups Example:</p> <table><tr><td>Samurai.</td><td>Delete Policy Group</td><td>test_group001</td><td>test_group002</td></tr></table>	Samurai.	Delete Policy Group	test_group001	test_group002																
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Delete User	group, *user_list	<p>Deletes user from the user group</p> <p>group is the user group. And . means current group Returns the number of deleted users</p> <p>Examples:</p> <table><tr><td>Samurai.</td><td>Delete User</td><td>SuperGroup</td><td>user001</td><td>user002</td></tr><tr><td>Samurai.</td><td>Delete User</td><td>.</td><td>user002</td><td></td></tr></table>	Samurai.	Delete User	SuperGroup	user001	user002	Samurai.	Delete User	.	user002											
Samurai.	Delete User	SuperGroup	user001	user002																		
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Edit Mitigation Controller	controller, **config	<p>Change the setting of the mitigation control</p> <ul style="list-style-type: none">control: name of the mitigation controllerconfig: configuration need to be changed. Currently only tms_group is configurable with the following format: groupname1:action1,groupname2:action2. groupname is currently set TMS group name and action could be click,check or uncheck. <p>Example:</p> <table><tr><td>Samurai.</td><td>Edit Mitigation Controller</td><td>controller=vSP-A</td><td>tms_group=Logical0_SOCN_IPv4:uncheck</td></tr></table>	Samurai.	Edit Mitigation Controller	controller=vSP-A	tms_group=Logical0_SOCN_IPv4:uncheck																
Samurai.	Edit Mitigation Controller	controller=vSP-A	tms_group=Logical0_SOCN_IPv4:uncheck																			
Edit Policy	**policy	<p>Edits a Samurai policy</p> <p>policy contains information about the policy. See Add Policy for more details about policy format</p>																				
Get Mitigation List	status=実行中	<p>Gets current mitigation list</p> <p>Return current active mitigation name, ID and the number of them</p> <p>Example:</p> <table><tr><td>\$(MITI)</td><td>\$(IDS)</td><td>\$(NUM)=</td><td>Samurai.</td><td>Get Mitigation List</td></tr></table>	\$(MITI)	\$(IDS)	\$(NUM)=	Samurai.	Get Mitigation List															
\$(MITI)	\$(IDS)	\$(NUM)=	Samurai.	Get Mitigation List																		
Left Menu	menu, locator=None, ignore_first_element=True	<p>Chooses the left panel menu by its displayed name</p> <p>When locator is not null, the keyword will return a list of text attribute of all elements specified by the locator. locator could be a xpath or a predefined string.</p> <p>locator predefined strings are: MITIGATE_REALTIME, MITIGATE_LIST, DETECT_LIST</p> <p>For example, a xpath //div[@id='infoareain2']*/td[1]/a means the list of link of all elements in a 1st column of a table insides a div with id infoareain2.</p> <p>Examples:</p> <table><tr><td>Samurai.</td><td>Left Menu</td><td>Traffic</td><td></td><td></td></tr><tr><td>Samurai.</td><td>Left Menu</td><td>Detection</td><td></td><td></td></tr><tr><td>Samurai.</td><td>Left Menu</td><td>ポリシー管理</td><td></td><td></td></tr><tr><td>@(LIST)=</td><td>Samurai.</td><td>Left Menu</td><td>Active Mitigation</td><td>//div[@id='infoareain2']*/td[1]/a</td></tr></table>	Samurai.	Left Menu	Traffic			Samurai.	Left Menu	Detection			Samurai.	Left Menu	ポリシー管理			@(LIST)=	Samurai.	Left Menu	Active Mitigation	//div[@id='infoareain2']*/td[1]/a
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Login		<p>Logs-in into the application</p> <p>User and password is set by the template and authentication methods in the master files</p>																				
Logout		<p>Logs-out the current application, the browser remains</p>																				
Make Item Map	xpath	<p>Makes a item/webelement defined xpath</p> <p>The map is a dictionary from item to the WebElement Items name found by xpath are used as keys</p>																				
Reset Capture Counter		<p>Resets the counter of the screen capture</p>																				
Select Items In Table	xpath, xpath2, *item_list	<p>Checks items in Samurai table by xpath</p> <p>xpath points to the column that used as key and xpath2 is the relative xpath contains the target column.</p> <p>item_list is a list of item that need to check. Item in the list could be a regular expresion with the format reg=<regular expression>.</p> <p>The keyword is called with assuming that the table is already visible.</p> <p>Returns the tuple of all items and selected items</p> <p>Note: Non-width-space (\u200b) will be take care by the keyword.</p> <p>Note: if the first item_list is * then the keyword will try to click a link named すべてを選択.</p>																				
Select Window	title	<p>Selects a window by its title</p>																				
Set Ajax Wait	wait_time=2s	<p>Set the ajax wait time</p>																				
Set Capture Counter	value=0	<p>Sets the counter of the screen capture to value</p>																				
Set Capture Format	format	<p>Sets the format for the screen capture file</p> <p>The format does not include the default prefix .png The default format is <mod>_%010d. mod could be samurai or arbor</p> <p>See https://docs.python.org/2/library/string.html#format-specification-mini-language for more details about the format string.</p> <p>Examples:</p> <table><tr><td>Samurai.</td><td>Set Capture Format</td><td>\$(case)_%010d</td><td># \$(case) is a predefined variable</td></tr></table>	Samurai.	Set Capture Format	\$(case)_%010d	# \$(case) is a predefined variable																
Samurai.	Set Capture Format	\$(case)_%010d	# \$(case) is a predefined variable																			
Show Detail	id	<p>Shows detail information of a mitigation</p>																				

