## Samurai

Library version: RENAT 0.1.8
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 Connect All 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 · Delete Policy · 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 · Stort Mitigation · Stort 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	-			
		name	name of the policy	yes	test001			
		basic_alias	alias name of the policy		test001			
		basic_port_id	another alias		customer			
		basic_facing 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	Automitgation 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	Automitgation 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		1.10(180.0.1.10)/2914:666,1.11(180.0.1.11)/2914:77			
		nw_monitor_gre1	rst 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			

		nw_monitor_pe1		1st PE for NW	(,		eageu1hi	ge-IVIX202	20-15(118.23.176.244)
		nw_monitor_pe2	!	2nd PE for NV	. ,			ge-MX202	20-15(118.23.176.244)
		event_name		name of the m to make	essage event		info1		
		event_addr		address to ser	nd the events		user@ma	il.com	
		view_group		user group that		yes	SuperGro	up,test_gi	roup_007
		Example:							
		Samurai. <u>Switch</u> samurai-1							
			Samurai. <u>Add</u> name=\${POLICY_NAME}						basic_alias=\${POLICY_NAME}
			basic_facing=customer						basic_intf_list=10.128.18.31:xe- 0/0/0.1
				r_list=1.1.1.0/24  abled=\${TRUE} _enabled=\${TRUE} i_zone_name=test_zone001				basic_direction=incoming	
			detection_e						
									mitigation_zone_prefix=1.1.1.1/3
			mitigation_device_list=ArborSP-A,ArborSP-B mitigation_mo_enabled=\${TRUE}						
			Titlestics are name Nanonnood LOOSE						
			mitigation comm list 1 10/190 0 1 10//0014/666 1 11/190 0 1 11//0014				2914:777		
			event_name						event_addr=user@mail.com
			view_group	=SuperGroup					
Add Policy Group	group_name, policy_list=*, limit_bps=400000000, 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 the policy. An asterisk for this parameter (*) means all of the existed policy. limit_bps and limit_pps are the mitigation capacitireshold 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.							
									er.
		group is the user	group. Dot(.	.) means curren	t group				
		Examples:							
		Samurai. <u>Add Us</u>	OONDD-					14.00.45.07	Q
		Janual. <u>Add 03</u>		S	name=user000		password=Tes	[123456/	0
				system_admin		1	password=1es	[1234567]	
		 Samurai. <u>Add Us</u>	privilege:	=system_admin	policy=* username=use	r001	password=Tes		
		 Samurai. <u>Add Us</u> 	privilege= er OCNDDo privilege=	=system_admin	policy=* username=use	r001			
•	filename=None, extra=	Samurai. Add Us Captures the curre Using the internal Set Capture Form	privileges OCNDDo privileges ent screen to counter for at could be	=system_admin SS =system_admin of file filename if filenaused to change	policy=* username=use policy=OCN11 ame is not spe the current for	r001 ,OCN12 ecified. I	password=Tes	t1234567	8
•	filename=None, extra=	Samurai. Add Us Captures the curre Using the internal Set Capture Form. An extra information	privileges OCNDDo privileges ent screen to counter for at could be	=system_admin SS =system_admin of file filename if filenaused to change	policy=* username=use policy=OCN11 ame is not spe the current for	r001 ,OCN12 ecified. I	password=Tes	t1234567	8
•	filename=None, extra=	Samurai. Add Us  Captures the curre Using the internal Set Capture Form. An extra informatic Examples:	privilege: OCNDDo privilege: ent screen to counter for at could be on will be ac	=system_admin oS =system_admin of file filename if filenamused to change dd to the filenam	policy=* username=use policy=OCN11  ame is not spe the current for the if extra is d	r001 ,OCN12 ecified. I rmat. efined	password=Tes	t1234567	8
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•	filename=None, extra=	Samurai. Add Us   Captures the curre Using the internal Set Capture Form. An extra informatic Examples:  Samurai. Capture Samurai. Capture Arbor. Capture S Arbor. Capture S	privileges or OCNDDo privileges ont screen to counter for at could be on will be ac e Screensho creenshot creenshot	=system_admin oS =system_admin of file filename if filename is to change dd to the filenam t t extra=_list extra=_xxx	policy=* username=use policy=OCN11  ame is not spe the current for the if extra is d  # samura # samura # arbor_0 # arbor_0	r001 OCN12 ecified. I mat. efined i_00000 i_000000000000000000000000000	password=Tes n this case, th  00001.png 00002_list.png	t1234567	8
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		Returned the number of deleted users				
		Notes: If the policy does not exists, the system will not report any error.				
		Examples:				
		Samurai. Delete Policy test001 test002				
Delete Policy	*group_list	Deletes policy groups				
Group		Returns the number of deleted policy groups Example:				
		Samurai. Delete Policy Group test_group001 test_group002				
Delete User	group, *user_list	Deletes user from the user group				
20.0.0	group, door_not	group is the user group. And . means current group Returns the number of deleted users				
		Examples:				
		Samurai. <u>Delete User</u> SuperGroup user001 user002 Samurai. <u>Delete User</u> . user002				
Edit Mitigation	controller, **config	Change the setting of the mitigation control				
Controller	Controller, Coming					
		<ul> <li>control: name of the mitigation controller</li> <li>config: configuration need to be changed. Currently only <a href="mailto:tms_group">tms_group</a> is configurable with the following format: groupname1:action1,groupname2:action2. groupname is currently set TMS group name and action could be <a href="mailto:click,check">click,check</a> or <a href="mailto:uncheck">uncheck</a>.</li> </ul>				
		Example:				
		Samurai. Edit Mitigation Controller controller=vSP-A tms_group=Logical0_SOCN_IPv4:uncheck				
Edit Policy	**policy	Edits a Samurai policy				
		policy contains information about the policy. See <u>Add Policy</u> for more details about policy format				
Get Mitigation	status=実行中	Gets current mitigation list				
List		Return current active mitgation name, ID and the number of them				
		Example:				
		\${MITI} \${IDS} \${NUM}= Samurai. Get Mitigation List				
Left Menu	menu, locator=None,	Chooses the left panel menu by its displayed name				
	ignore_first_element=True	When locater 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.				
		locator predefined strings are: MITIGATE_REALTIME, MITIGATE_LIST, DETECT_LIST				
		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.				
		Examples:				
		Samurai. <u>Left Menu</u> Traffic Samurai. <u>Left Menu</u> Detection				
		Samurai. <u>Left Menu</u> ポリシー管理				
		@{LIST}= Samurai. <u>Left Menu</u> Active Mitigation //div[@id='infoareain2']/*//td[1]/a				
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	xpath	Makes a item/webelement defined xpath				
		The map is a dictionary from item to the WebElement Items name found by xpath are used as keys				
Reset Capture		Resets the counter of the screen capture				
Counter						
Select Items In Table	xpath, xpath2, *item_list					
. 4516		xpath points to the column that used as key and xpath2 is the relative xpath contains the target column.				
		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< td=""></regular<>				
		expression>.				
		The keyword is called with assuming that the table is already visible.				
		Returns the tupple of all items and selected items				
		Note: Non-width-space (\u200b) will be take care by the keyword.				
		Note: if the first item_list is *then the keywork will try to click a link named すべてを選択.				
Select Window	title	Selects a window by its title				
Set Ajax Wait	wait_time=2s	Set the ajax wait time				
Set Capture Counter	value=0	Sets the counter of the screen capture to value				
Set Capture	format	Sets the format for the screen capture file				
Format						
	The format does not include the default prefix .png The default format is <mod>_%010d. mod could be same</mod>					
		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.				
	Examples:					
		Samurai. Set Capture Format \${case}_%010d # \${case} is a predefined variable				
Show Detail	id	Shows detail information of a mitigation				

mitigation	I				
Show Policy Basic	policy_name	Makes the virtual browser show basic setting of the policy <i>name</i> .			
Dasic		A following Samurai. Capture Screenshot is necessary to capture the result.			
Show Policy policy_name Mitigation		Make the virtual browser show the mitigation setting of a policy			
		A following Samurai. Capture Screenshot is necessary to capture the result.			
Show Policy	policy_name	Make the virtual browser show the MO setting of a policy			
Мо		Automatically expand the MO section of other devices if necessary.			
		A following Samurai. Capture Screenshot is necessary to capture the result.			
Show Policy	policy_name	Make a virtual browser show the mitigation setting of a policy			
Monitor		A following Samurai. Capture Screenshot is necessary to capture the result.			
Start Mitigation	1.	Starts a mitigation with specific prefix			
	comment=mitigation started by RENAT, device=None.	device is used for matching real device name configured by Samurai If force is TRUE then the keyword will fail if selected device does not contain device			
	force=False	Returns mitigation id and selected arbor device			
		Example:			
		\${id} \${device}= Samurai. Start Mitigation 211.1.12.1/32 mitigation by RENAT SP-A \${TRUE}			
Stop Mitigation	id, stop_when_error=True	Stops a mitigation by its ID			
		Example:			
		Samurai. Stop Mitigation 700			
Switch	name	Switches the current browser to name			

Altogether 35 keywords.
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