Samurai

Library version: RENAT 0.1.13
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 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 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 · Mark Element · 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 Monitor · Show Policy Notify · Show Policy Nw Monitor · Start Mitigation · Stop Mitigation · Switch · Update Mitigation Controller Info · Verbose Capture · Wait Until Element Changes

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}	
		detection_direction	change detect direction fo all attack type	incomming, outgoing, `both both:check		
		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}	

minganon_auto_stop_enableu	automitgation stop or not		φ{INUE} VI φ{FALVE}
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 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
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

Example:

Samurai. Switch	samurai-1	
Samurai. <u>Add</u> <u>Policy</u>	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	

Add Policy	group_name,
Group	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 gro

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:

Samurai. <u>Add User</u>	OCNDDoS	name=user000	password=Test12345678
	privilege=system_admin	policy=*	
Samurai. <u>Add User</u>	OCNDDoS	username=user001	password=Test12345678
	privilege=system_admin	policy=OCN11,OCN12	

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. <u>Set Capture Format</u> could be used to change the current format.

An extra information will be add to the filename if extra is defined

Examples:

Samurai. <u>Capture Screenshot</u>	# samurai_000000001.png
Samurai. Capture Screenshot extra=_list	# samurai_0000000002_list.png
Arbor. Capture Screenshot	# arbor_000000001.png
Arhor Cantura Screenshot avtra- vvv	# arhor 000000001 vvvnna

		Samurai. Capture Screenshot filename=1111.png # 1111.png		
Change Policy	name, *group_name	Changes the groups that could see this policy		
View Group		name is the policy name. group_name is a list of policies		
		Example:		
	.,	Samurai. Change Policy View Group super_admin test_group001 Click all element in current page defined by yearth		
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 defaut values:		
		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		
Connect All		Connects to all applications defined in local.yaml		
		The name of the connection will be the same of the <i>webapp</i> name		
Delete Policy	*policy_names	Deletes policies by their names		
20.000 1 009	policy_names			
		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		See <u>Select Items In Table</u> for more detail about how to choose <i>group_list</i>		
		Returns the number of deleted policy groups Example:		
		Samurai. Delete Policy Group test_group001 test_group002		
Delete User	group *upor list			
Delete Osei	group, *user_list	Deletes user from the user group		
		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	controller, **config	Change the setting of the mitigation control		
Controller		■ control: name of the mitigation controller		
		 config: 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.		
		Example:		
Edit Dallan				
Edit Policy	**policy	Samurai. Edit Mitigation Controller controller=vSP-A tms_group=Logical0_SOCN_IPv4:uncheck Edits a Samurai policy		
East Policy	**policy	Samurai. Edit Mitigation Controller controller=vSP-A tms_group=Logical0_SOCN_IPv4:uncheck policy contains information about the policy. See Add Policy for more details about policy format		
Get Mitigation	**policy status=実行中			
		policy contains information about the policy. See <u>Add Policy</u> for more details about policy format Gets current mitigation list		
Get Mitigation		policy contains information about the policy. See <u>Add Policy</u> for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them		
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Get Mitigation List		policy contains information about the policy. See Add Policy for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them Example: \${MITI} \${IDS} \${NUM}= Samurai. Get Mitigation List}		
Get Mitigation List Get Verbose	status=実行中	policy contains information about the policy. See Add Policy for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them Example: \${MITI} \${IDS} \${NUM}= Samurai.Get Mitigation List} Get current verbose mode		
Get Mitigation List	status=実行中 menu, locator=None,	policy contains information about the policy. See Add Policy for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them Example: \${MITI} \${IDS} \${NUM} = Samurai. Get Mitigation List} Get current verbose mode Chooses the left panel menu by its displayed name		
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Get Mitigation List Get Verbose	status=実行中 menu, locator=None,	policy contains information about the policy. See Add Policy for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them Example: \${MITI} \${IDS} \${NUM}= Samurai.Get Mitigation List} Get current verbose mode Chooses the left panel menu by its displayed name 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		
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Get Mitigation List Get Verbose	status=実行中 menu, locator=None,	policy contains information about the policy. See Add Policy for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them Example: \$\{\text{MITI}\} \{\text{IDS}\} \{\text{NUM}\} = \text{Samurai.} \(\frac{\text{Get Mitigation List}}{\text{List}} \) Get current verbose mode Chooses the left panel menu by its displayed name 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: \$\text{Samurai.} \text{Left Menu} \text{Traffic} \text{Samurai.} \text{Detection} Detection		
Get Mitigation List Get Verbose	status=実行中 menu, locator=None,	policy contains information about the policy. See Add Policy for more details about policy format Gets current mitigation list Return current active mitgation name, ID and the number of them Example: \$\{\text{MITI}\} \\$\{\text{IDS}\} \\$\{\text{NUM}\} = \text{Samurai.} \(\frac{\text{Get Mitigation List}}{\text{List}} \) Get current verbose mode Chooses the left panel menu by its displayed name 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: \text{MITIGATE_REALTIME}, \text{MITIGATE_LIST}, \text{DETECT_LIST} For example, a xpath \(\frac{\text{div}(\text{@id="infoareain2"})"/\text{Id[1]/a} \) means the list of \(\link \) of all elements in a 1st column of a table insides a div with id infoareain2. Examples: Samurai. \(\text{Left Menu} \) \(\text{Traffic} \)		

		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	
Mark Element	xpath	Marking an element to check its stattus later	
Open Ff With Profile	app, name		
Reconnect		Reconnects to the server	
Reset Capture Counter		Resets the counter of the screen capture	
Select Items In	xpath, xpath2, *item_list	Checks items in Samurai table by xpath	
Table		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 and its action that need to check. Item in the list could be a regular expression with the format re: <regular expression=""> action.</regular>	
		The default action for the item could be click '(default), 'check or uncheck	
		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.	
Select Window	title	Note: if the first item_list is * then the keywork will try to click a link named すべてを選択.	
Set Ajax Wait	wait time=2s	Selects a window by its title	
•	value=0	Set the aparter of the agree continue to unlike	
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 samurai or arbor</mod>	
		See https://docs.python.org/2/library/string.html#format-specification-mini-language for more details about the format string.	
		Examples:	
		Samurai. Set Capture Format \${case} %010d # \${case} is a predefined variable	
Set Verbose	verbose=False	Set current verbose mode to verbose	
Show Detail	id	Shows detail information of a mitigation	
Mitigation			
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 Detection	policy_name	Shows the detction pannel of <i>policy_name</i> policy	
Show Policy	policy_name	Make a virtual browser show the display setting of a policy	
Display		Notes : Depending on the setting of the policy, MO panel may not be existed. In this case, if <i>strict</i> is True, then the keyword will fail.	
Show Policy Mitigation	policy_name	Make the virtual browser show the mitigation setting of a policy	
Show Policy	policy_name,	Make the virtual browser show the MO setting of a policy	
Мо	strict=False	Automatically expand the MO section of other devices. Notes : Depending on the setting of the policy, MO panel may not be existed. In this case, if <i>strict</i> is True, then the keyword will fail.	
Show Policy Monitor	policy_name		
Show Policy Notify	policy_name	Make a virtual browser show the mitigation setting of a policy	
Show Policy	policy_name,	Make a virtual browser show the NW monitor setting of a policy	
Nw Monitor	strict=False	Notes : Depending on the setting of the policy, MO panel may not be existed. In this case, if <i>strict</i> is True, then the keyword will fail.	
Show Policy	policy_name	Makes the virtual browser show the traffic setting of the policy name.	
Traffic		A following Samurai. Capture Screenshot is necessary to capture the result.	
Start Mitigation	policy, prefix,	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:	
		\$\ \\$\{\delta\} \\$\{\delta\vice} = \Samurai.\(\frac{Start Mitigation}{\text{Mitigation}} \) 211.1.12.1/32 mitigation by RENAT SP-A \\$\{\text{TRUE}}\\	
Stop Mitigation	id, raise_error=True	Stops a mitigation by its ID	
. 5	_	The keyword will raise an error if <i>raise error</i> is True. Otherwise it will ignore any errors.	
		Example:	
		Samurai. Stop Mitigation 700	
Switch	name		
Ilndate	controller wait=10e	Switches the current browser to name	
		·· · · · · · · · · · · · · · · · ·	

Mitigation Controller Info	controller, wat-100	Opuates information of controller
Verbose Capture	*args, **kwargs	Capture screenshot if verbose mode is True otherwise do nothing
Wait Until Element Changes	interval=5s, timeout=180s, error_on_timeout=False	Wait until the marked element has been changed

Altogether 48 keywords.
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