

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																																																																																																																										
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		<table><tr><th>key</th><th>meaning</th><th>mandatory</th><th>sample</th></tr><tr><td>name</td><td>name of the policy</td><td>yes</td><td>test001</td></tr><tr><td>basic_alias</td><td>alias name of the policy</td><td></td><td>test001</td></tr><tr><td>basic_port_id</td><td>another alias</td><td></td><td></td></tr><tr><td>basic_facing</td><td>customer OR backbone</td><td></td><td>customer</td></tr><tr><td>basic_intf_list</td><td>list of router and interface pair, separated by comma</td><td>yes</td><td>10.128.18.31:xe-0/0/0.1</td></tr><tr><td>basic_cidr_list</td><td>list of CIDR separate by comma</td><td></td><td></td></tr><tr><td>basic_option_filter</td><td>optinal filter</td><td></td><td></td></tr><tr><td>basic_direction</td><td>direction of the traffic (incoming or outgoing)</td><td></td><td>Incoming</td></tr><tr><td>traffic_enabled</td><td>Enable traffic monitoring or not</td><td>yes</td><td>\${TRUE} or \${FALSE}</td></tr><tr><td>detection_enabled</td><td>Enable detection or 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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																																																																								
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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																
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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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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 mitgation 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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@(LIST)=	Samurai.	Left Menu	Active Mitigation	//div[@id='infoareain2']*/td[1]/a																		
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>																				

mitigation		
Show Policy Basic	<i>policy_name</i>	Makes the virtual browser show basic setting of the policy <i>name</i> . A following Samurai. Capture Screenshot is necessary to capture the result.
Show Policy Mitigation	<i>policy_name</i>	Make the virtual browser show the mitigation setting of a policy A following Samurai. Capture Screenshot is necessary to capture the result.
Show Policy Mo	<i>policy_name</i>	Make the virtual browser show the MO setting of a policy Automatically expand the MO section of other devices if necessary. A following Samurai. Capture Screenshot is necessary to capture the result.
Show Policy Monitor	<i>policy_name</i>	Make a virtual browser show the mitigation setting of a policy A following Samurai. Capture Screenshot is necessary to capture the result.
Start Mitigation	<i>policy, prefix, comment=mitigation started by RENAT, device=None, force=False</i>	Starts a mitigation with specific <code>prefix</code> <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> Returns mitigation <code>id</code> and selected <code>armor device</code> Example: <code>\$(id) \$(device)= Samurai.Start Mitigation 211.1.12.1/32 mitigation by RENAT SP-A \${TRUE}</code>
Stop Mitigation	<i>id, stop_when_error=True</i>	Stops a mitigation by its ID Example: <code>Samurai.Stop Mitigation 700</code>
Switch	<i>name</i>	Switches the current browser to <code>name</code>

Altogether 35 keywords.

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