

# Samurai

**Library version:** RENAT 0.1.10  
**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** · **Reconnect** · **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 Detection** · **Show Policy Mitigation** · **Show Policy Mo** · **Show Policy Monitor** · **Start Mitigation** · **Stop Mitigation** · **Switch**

## Keywords

Keyword	Arguments	Documentation																																																																																																																								
Add Policy	<i>**policy</i>	Adds a new Samurai policy																																																																																																																								
		policy is a map containing the below information to create the new policy.																																																																																																																								
		<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 not</td><td>yes</td><td>\${TRUE} or \${FALSE}</td></tr><tr><td>mitigation_enabled</td><td>Enable Mitigation or not</td><td>yes</td><td>\${TRUE} or \${FALSE}</td></tr><tr><td>mitigation_zone_name</td><td>Name of the zone for mitigation</td><td></td><td>zone001</td></tr><tr><td>mitigation_zone_prefix</td><td>Prefixes that could mitigate</td><td></td><td>1.1.1.1/32</td></tr><tr><td>mitigation_thr_bps</td><td>Upper limit (bps)</td><td></td><td>800,000,000</td></tr><tr><td>mitigation_thr_pps</td><td>Upper limit (pps)</td><td></td><td>54,000,000</td></tr><tr><td>mitigation_auto_enabled</td><td>Enable automitigation or not</td><td></td><td>\${TRUE} or \${FALSE}</td></tr><tr><td>mitigation_auto_level</td><td>Automitigation level</td><td></td><td>0:overLow 1:overMedium 2:High</td></tr><tr><td>mitigation_auto_time</td><td>Automitigation detect attack time (min)</td><td></td><td>default is 15</td></tr><tr><td>mitigation_mo_enabled</td><td>Using Arbor TMS MO or not</td><td>yes</td><td>\${TRUE} or \${FALSE}</td></tr><tr><td>mitigation_auto_stop_enabled</td><td>Enable automitigation stop or not</td><td></td><td>\${TRUE} or \${FALSE}</td></tr><tr><td>mitigation_auto_stop_level</td><td>Automitigation level</td><td></td><td>0:overLow 2:High</td></tr><tr><td>mitigation_auto_stop_time</td><td>Automitigation stop detect attack time (min)</td><td></td><td>default is 15</td></tr><tr><td>mitigation_device_list</td><td>Devices used for TMS, separated by comma</td><td></td><td>ArborSP-A</td></tr><tr><td>mitigation_mo_name</td><td>MO name, separated by comma</td><td></td><td>OCN12(ALU)_LOOSE</td></tr><tr><td>mitigation_comm_list</td><td>commna separated peer/community list</td><td></td><td>1.10(180.0.1.10)/2914:666,1.11(180.0.1.11)/2914:777</td></tr><tr><td>nw_monitor_gre1</td><td>1st GRE address for NW monitor</td><td></td><td>210.0.1.1</td></tr><tr><td>nw_monitor_gre2</td><td>2nd GRE address for NW monitor</td><td></td><td>210.0.1.1</td></tr><tr><td>nw_monitor_ce1</td><td>1st CE address for NW monitor</td><td></td><td>210.0.1.2</td></tr><tr><td>nw_monitor_ce2</td><td>2nd CE address for NW monitor</td><td></td><td>210.0.1.2</td></tr></table>	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 automitigation 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 automitigation 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
		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 automitigation 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 automitigation 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>	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																				
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: <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	
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																																									
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.<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																								
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																																								
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																								
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																																								
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																																				
Samurai. <a href="#">Change Policy View Group</a>	super_admin	test_group001																																								
Click All Elements	xpath	Click all element in current page defined by xpath  Returns the number of elements that have been clicked																																								
Close		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																		
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																																								
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	<i>*policy_names</i>	<div>Deletes policies by their names</div> <div>Returned the number of deleted users</div> <div>Notes: If the policy does not exists, the system will not report any error.</div> <div>Examples:</div> <table><tr><td>Samurai.</td><td><a href="#">Delete Policy</a></td><td>test001</td><td>test002</td></tr></table>	Samurai.	<a href="#">Delete Policy</a>	test001	test002																
Samurai.	<a href="#">Delete Policy</a>	test001	test002																			
Delete Policy Group	<i>*group_list</i>	<div>Deletes policy groups</div> <div>See <a href="#">Select Items In Table</a> for more detail about how to choose <i>group_list</i></div> <div>Returns the number of deleted policy groups Example:</div> <table><tr><td>Samurai.</td><td><a href="#">Delete Policy Group</a></td><td>test_group001</td><td>test_group002</td></tr></table>	Samurai.	<a href="#">Delete Policy Group</a>	test_group001	test_group002																
Samurai.	<a href="#">Delete Policy Group</a>	test_group001	test_group002																			
Delete User	<i>group, *user_list</i>	<div>Deletes user from the user group</div> <div>group is the user group. And . means current group Returns the number of deleted users</div> <div>Examples:</div> <table><tr><td>Samurai.</td><td><a href="#">Delete User</a></td><td>SuperGroup</td><td>user001</td><td>user002</td></tr><tr><td>Samurai.</td><td><a href="#">Delete User</a></td><td>.</td><td>user002</td><td></td></tr></table>	Samurai.	<a href="#">Delete User</a>	SuperGroup	user001	user002	Samurai.	<a href="#">Delete User</a>	.	user002											
Samurai.	<a href="#">Delete User</a>	SuperGroup	user001	user002																		
Samurai.	<a href="#">Delete User</a>	.	user002																			
Edit Mitigation Controller	<i>controller, **config</i>	<div>Change the setting of the mitigation control</div> <div><div><div>control: name of the mitigation controller</div><div>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 <i>click</i>, <i>check</i> or <i>uncheck</i>.</div></div></div> <div>Example:</div> <table><tr><td>Samurai.</td><td><a href="#">Edit Mitigation Controller</a></td><td>controller=vSP-A</td><td>tms_group=Logical0_SOCN_IPv4:uncheck</td></tr></table>	Samurai.	<a href="#">Edit Mitigation Controller</a>	controller=vSP-A	tms_group=Logical0_SOCN_IPv4:uncheck																
Samurai.	<a href="#">Edit Mitigation Controller</a>	controller=vSP-A	tms_group=Logical0_SOCN_IPv4:uncheck																			
Edit Policy	<i>**policy</i>	<div>Edits a Samurai policy</div> <div>policy contains information about the policy. See <a href="#">Add Policy</a> for more details about policy format</div>																				
Get Mitigation List	<i>status=実行中</i>	<div>Gets current mitigation list</div> <div>Return current active mitgation name, ID and the number of them</div> <div>Example:</div> <table><tr><td>\$(MITI) \$(IDS) \$(NUM)=</td><td>Samurai.</td><td><a href="#">Get Mitigation List</a></td></tr></table>	\$(MITI) \$(IDS) \$(NUM)=	Samurai.	<a href="#">Get Mitigation List</a>																	
\$(MITI) \$(IDS) \$(NUM)=	Samurai.	<a href="#">Get Mitigation List</a>																				
Left Menu	<i>menu, locator=None, ignore_first_element=True</i>	<div>Chooses the left panel menu by its displayed name</div> <div>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.</div> <div>locator predefined strings are: MITIGATE_REALTIME, MITIGATE_LIST, DETECT_LIST</div> <div>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 div with id infoareain2.</div> <div>Examples:</div> <table><tr><td>Samurai.</td><td><a href="#">Left Menu</a></td><td>Traffic</td><td></td><td></td></tr><tr><td>Samurai.</td><td><a href="#">Left Menu</a></td><td>Detection</td><td></td><td></td></tr><tr><td>Samurai.</td><td><a href="#">Left Menu</a></td><td>ポリシー管理</td><td></td><td></td></tr><tr><td>@(LIST)=</td><td>Samurai.</td><td><a href="#">Left Menu</a></td><td>Active Mitigation</td><td><code>//div[@id='infoareain2']*/td[1]/a</code></td></tr></table>	Samurai.	<a href="#">Left Menu</a>	Traffic			Samurai.	<a href="#">Left Menu</a>	Detection			Samurai.	<a href="#">Left Menu</a>	ポリシー管理			@(LIST)=	Samurai.	<a href="#">Left Menu</a>	Active Mitigation	<code>//div[@id='infoareain2']*/td[1]/a</code>
Samurai.	<a href="#">Left Menu</a>	Traffic																				
Samurai.	<a href="#">Left Menu</a>	Detection																				
Samurai.	<a href="#">Left Menu</a>	ポリシー管理																				
@(LIST)=	Samurai.	<a href="#">Left Menu</a>	Active Mitigation	<code>//div[@id='infoareain2']*/td[1]/a</code>																		
Login		<div>Logs-in into the application</div> <div>User and password is set by the template and authentication methods in the master files</div>																				
Logout		<div>Logs-out the current application, the browser remains</div>																				
Make Item Map	<i>xpath</i>	<div>Makes a item/webelement defined <i>xpath</i></div> <div>The map is a dictionary from <i>item</i> to the <i>WebElement</i> Items name found by <i>xpath</i> are used as keys</div>																				
Reconnect		<div>Reconnects to the server</div>																				
Reset Capture Counter		<div>Resets the counter of the screen capture</div>																				
Select Items In Table	<i>xpath, xpath2, *item_list</i>	<div>Checks items in Samurai table by <i>xpath</i></div> <div><i>xpath</i> points to the column that used as key and <i>xpath2</i> is the relative <i>xpath</i> contains the target column.</div> <div><i>item_list</i> is a list of item and its action that need to check. Item in the list could be a regular expresion with the format <i>re</i>: <code>&lt;regular expression&gt; action</code>.</div> <div>The default action for the item could be <code>click`(<i>default</i>)</code>, <code>check</code> or <code>uncheck</code></div> <div>The keyword is called with assuming that the table is already visible.</div> <div>Returns the tuple of all items and selected items</div> <div>Note: Non-width-space (<code>\u200b</code>) will be take care by the keyword.</div> <div>Note: if the first <i>item_list</i> is <code>*</code> then the keywork will try to click a link named <code>すべてを選択</code>.</div>																				
Select Window	<i>title</i>	<div>Selects a window by its title</div>																				
Set Ajax Wait	<i>wait_time=2s</i>	<div>Set the ajax wait time</div>																				
Set Capture Counter	<i>value=0</i>	<div>Sets the counter of the screen capture to <i>value</i></div>																				
Set Capture Format	<i>format</i>	<div>Sets the format for the screen capture file</div> <div>The format does not include the default prefix <code>.png</code> The default format is <code>&lt;mod&gt;_%010d</code>. <i>mod</i> could be <code>samurai</code> or <code>arbor</code></div>																				

		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: <div>Samurai.<a href="#">Set Capture Format</a> \${case}_%010d # \${case} is a predefined variable</div>
<b>Show Detail Mitigation</b>	<i>id</i>	Shows detail information of a mitigation
<b>Show Policy Basic</b>	<i>policy_name</i>	Makes the virtual browser show basic setting of the policy <i>name</i> . A following Samurai. <a href="#">Capture Screenshot</a> is necessary to capture the result.
<b>Show Policy Detection</b>	<i>policy_name</i>	Shows the detection pannel of <i>policy_name</i> policy
<b>Show Policy Mitigation</b>	<i>policy_name</i>	Make the virtual browser show the mitigation setting of a policy A following Samurai. <a href="#">Capture Screenshot</a> is necessary to capture the result.
<b>Show Policy Mo</b>	<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. <a href="#">Capture Screenshot</a> is necessary to capture the result.
<b>Show Policy Monitor</b>	<i>policy_name</i>	Make a virtual browser show the mitigation setting of a policy A following Samurai. <a href="#">Capture Screenshot</a> is necessary to capture the result.
<b>Start Mitigation</b>	<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>arbor device</code> Example: <div>`\${id} \${device}= Samurai.<a href="#">Start Mitigation</a> 211.1.12.1/32 mitigation by RENAT SP-A \${TRUE}</div>
<b>Stop Mitigation</b>	<i>id, stop_when_error=True</i>	Stops a mitigation by its ID Example: <div>Samurai.<a href="#">Stop Mitigation</a> 700</div>
<b>Switch</b>	<i>name</i>	Switches the current browser to <code>name</code>

