

distributed load testing

# What is it?

FrontLoader is a flexible distributed load tester with support for system monitoring and a full web interface. Originally designed for testing RTMP services, it is particularly suited for protocols that require long-lived connections. However, short-lived protocols like HTTP can be tested easily as well.

#### Features

- Includes a powerful monitoring framework that lets you collect real-time information from a remote server (e.g. CPU usage, memory usage) or even an entire cluster.
- An extensible connection system that makes testing almost any kind of service possible
- Configure and run your tests using the web interface. Then watch the results in real-time.
- Statistical analysis of the resulting data lets you see what factors affect your cluster's performance.

### Scenarios

```
monitor do
         # use local monitoring (the default)
  local
  role "web" # monitor hosts in the web role using these settings
  role "mysql" # ditto for mysql role
  host "12.42.44.12" # add a single host to monitor
 watch :cpu => 2 # run the CPU watch with priority 2
 watch :mem => 1
 watch :socket => 0.5
end
test :time => 120, :repeat => 1 do
  urls = ["http://site.com/page1", "http://site.com/page2"]
  500.times{|_|
    start :HttpConnector, :url => urls[rand % url.size]
   wait rand
 wait_until_done
end
```

### Watchers

```
class SocketWatcher < FrontLoader::Watcher
   name "socket"
   shell "ls -l /proc/*/fd | grep socket | wc -l", :sudo => true do |count|
      log :sockets => count.to_i unless count.to_i == 0
   end
end
```

## Connectors

```
class HTTPConnector < FrontLoader::Connector</pre>
  option :url, :type => :text, :help => "The URL that will be
accessed"
  def start opt
    @connections ||= []
    @counter ||= 0
    counter = (@counter += 1)
    http = EM::HttpRequest.new(opt[:url]).get
    log_started :id => counter
    http.callback do
      log_connected :id => counter
      log_disconnected :id => counter
      @connections.delete http
    end
    http.errback do
      log_failed :id => counter
    end
    @connections << http</pre>
  end
  def stop
    @connections.each{|c| c.close_connection} if @connections
  end
end
```

require 'em-http'

	run	watc	h analyz	e		
adv						
devices			general	name		]
	new			time	120	
				max load	10 🤤	
				rate	3	
				repeat	1	
			monitor	ing roles		
				hosts	roomtrol-allb004.class, room	
				·		
			connect	tions connector	HTTPConnector	
				url	http://roomtrol-allb004.class	
					run	

run	watch	analyze		
scenario	os	# Define your scenario here using the scenario DSL		
		monitor do		
devices		host 'roomtrol-allb103.class' host 'roomtrol-allb003.class' host 'roomtrol-allb017.class' end		
new				
		<pre>test :time =&gt; 120, :repeat =&gt; 1 do load :FrontLoader::HTTPConnector :load =&gt; 10 :rate =&gt; 3 :url =&gt; "http://doogle.com"</pre>		

load :FrontLoader::HTTPConnector, :load => 10, :rate => 3, :url => "http://google. end





# demo

thanks to



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