Scripting Lesson 8: HandsOn

Course	DevOps Engineering
Topic / Session number	Scripting / Lesson 8
Objectives / Goals	1. Hands On for Scripting Lesson 5/6

⭐ **Objective 1: Hands On for Scripting Lesson 5/6** 🔗

Your goal is to parse a log file and do some analysis on it. The log file contains all requests to a server within a specific timeframe.

We're interested in statistics for the following method/URL definitions:

```
1  GET /api/users/{user_id}/count_pending_messages
2  GET /api/users/{user_id}/get_messages
3  GET /api/users/{user_id}/get_friends_progress
4  GET /api/users/{user_id}/get_friends_score
5  GET /api/users/{user_id}/fb_request_messages
6  GET /version_api/files
7
```

Where `{user_id}` is the id of user calling the backend.

The script/program should output a small analysis of the sample. It should contain the following information for **each** of the URLs above:

- The number of times URL was called
- Mean (average) response times (connect time + service time)

Example:

2014-01-09T06:15:15.893505+00:00 tntk[router]: at=info method=GET path=/api/users/1686318645/get_friends_progress host=mygame.tntk.com fwd="1.125.42.139" dyno=web.3 connect=8ms service=90ms status=200 bytes=9534

2014-01-09T06:16:53.968188+00:00 tntk[router]: at=info method=GET path=/api/users/100005936523819/get_friends_score host=mygame.tntk.com fwd="5.13.89.91" dyno=web.13 connect=2ms service=46ms status=200 bytes=9355

2014-01-09T06:16:53.965430+00:00 tntk[router]: at=info method=GET path=/api/users/100005936523819/get_friends_progress host=mygame.tntk.com fwd="5.13.89.91" dyno=web.11 connect=1ms service=49ms status=200 bytes=9498

Expected result:

```
1  request_identifier=GET /api/users/{user_id}/count_pending_messages called=0 mean_response_time=0.0
2  request_identifier=GET /api/users/{user_id}/get_messages called=0 mean_response_time=0.0
3  request_identifier=GET /api/users/{user_id}/get_friends_progress called=2 mean_response_time=74.0
4  request_identifier=GET /api/users/{user_id}/get_friends_score called=1 mean_response_time=48.0
```

Pre-Requisites: 🔗

1. Download log file using `wget`. The link to file
   https://raw.githubusercontent.com/akjolkg/tntk/4f47929e79726836a170d25f13e0279136cb29f9/tntk.log