

## LTTng - Bug #969

### It is not possible to only enable/disable events with '\*' in their names

10/27/2015 07:43 PM - Philippe Proulx

<b>Status:</b>	New	<b>Start date:</b>	10/27/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

#### Description

Some domains give great liberty regarding their logger names.

For example, Python's logging.getLogger() requires a simple string. It is thus possible to have the \* character in the logger name:

```
import lttngust
import logging
import time

def hello():
    logger = logging.getLogger('hello*')
    logger2 = logging.getLogger('hello34')

    while True:
        logger.warn('hello from logger')
        logger2.warn('hello from logger2')
        time.sleep(0.1)

if __name__ == '__main__':
    hello()
```

Here, lttng list -p shows:

```
Python events (Logger name):
-----
```

```
PID: 31194 - Name: python
- hello*
- hello34
```

In this context, it's not possible to enable the event named hello\* without also enabling the one named hello34 because the \* character in the event name, when enabling, is a wildcard:

```
lttng enable-event -p 'hello*'
lttng start
sleep .3
lttng stop
lttng view
```

This shows:

```
[19:41:56.916637271] (+?.?????????) archeepp lttng_python:event: { cpu_id = 1 }, { asctime = "2015
-10-27 19:41:56,916", msg = "hello from logger", logger_name = "hello*", funcName = "hello", linen
o = 12, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
[19:41:56.916863273] (+0.000226002) archeepp lttng_python:event: { cpu_id = 1 }, { asctime = "2015
-10-27 19:41:56,916", msg = "hello from logger2", logger_name = "hello34", funcName = "hello", lin
eno = 13, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
[19:41:57.017339890] (+0.100476617) archeepp lttng_python:event: { cpu_id = 1 }, { asctime = "2015
-10-27 19:41:57,017", msg = "hello from logger", logger_name = "hello*", funcName = "hello", linen
o = 12, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
[19:41:57.017497335] (+0.000157445) archeepp lttng_python:event: { cpu_id = 1 }, { asctime = "2015
-10-27 19:41:57,017", msg = "hello from logger2", logger_name = "hello34", funcName = "hello", lin
eno = 13, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
```

```
[19:41:57.117830244] (+0.100332909) archeepp lttng_python:event: { cpu_id = 1 }, { asctime = "2015-10-27 19:41:57,117", msg = "hello from logger", logger_name = "hello*", funcName = "hello", lineno = 12, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
[19:41:57.117955372] (+0.000125128) archeepp lttng_python:event: { cpu_id = 1 }, { asctime = "2015-10-27 19:41:57,117", msg = "hello from logger2", logger_name = "hello34", funcName = "hello", lineno = 13, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
[19:41:57.218462259] (+0.100506887) archeepp lttng_python:event: { cpu_id = 2 }, { asctime = "2015-10-27 19:41:57,218", msg = "hello from logger", logger_name = "hello*", funcName = "hello", lineno = 12, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
[19:41:57.218618033] (+0.000155774) archeepp lttng_python:event: { cpu_id = 2 }, { asctime = "2015-10-27 19:41:57,218", msg = "hello from logger2", logger_name = "hello34", funcName = "hello", lineno = 13, int_loglevel = 30, thread = 615352064, threadName = "MainThread" }
```

Also, lttng list session prints:

```
...
=== Domain: Python (logging) ===
Events (Logger name):
-----
- hello* [enabled]
```

It is not clear in the output above whether \* is part of the event name or not.

**Suggested solution:** support escape sequences to escape a legitimate \* character. Then, we can enable the hello\* event above like this:

```
lttng enable-event -p 'hello\*'
```

and an event with a name containing \ (double \ to bypass the shell first):

```
lttng enable-event -p 'some\\\\\\stuff'
```

## History

### #1 - 10/27/2015 07:43 PM - Philippe Proulx

- Subject changed from *It is not possible to enable/disable events with '\*' in their names* to *It is not possible to only enable/disable events with '\*' in their names*