logging-ldp Documentation

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Contents

A python 3 logging bundle to send logs using GELF on the OVH Logs Data Platform. The following example shows how to send log over TCP/TLS input.

```
import logging
from logging_ldp.formatters import LDPGELFFormatter
from logging_ldp.handlers import LDPGELFTCPSocketHandler

logger = logging.getLogger("ldp")
logger.setLevel(logging.DEBUG)

handler = LDPGELFTCPSocketHandler(hostname="gra1.logs.ovh.com")
handler.setFormatter(LDPGELFFormatter(token="XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX"))
logger.addHandler(handler)
logger.debug("hello !")
```

CHAPTER 1

Get It Now

First, install logging-ldp using pip:

```
pip install -U logging-ldp
```

CHAPTER 2

API focus

The api is many only an implementation of logging-gelf

2.1 `logging_ldp.formatters` — Formatters

class logging_ldp.formatters.**LDPGELFFormatter**

A subclass of `logging_ldp.GELFFormatter` to format LogRecord into GELF.

__init__(*token*, *schema=<logging_ldp.schemas.LDPSchema>*, *null_character=True*, *JSONEncoder=json.JSONEncoder*, *exclude_patterns=None*)

A GELF formatter to format a `logging.LogRecord` into GELF.

Parameters

- **token** (*str*) – The LDP token (aka. *X-OVH-TOKEN*).
- **schema** (`logging_ldp.schemas.LDPSchema`) – The marshmallow schema to use to format data.
- **null_character** (*bool*) – Append a '0' at the end of the string. It depends on the input used.
- **JSONEncoder** (*json.JSONEncoder*) – A custom json encoder to use.
- **exclude_patterns** (*list|None*) – List of regexp used to exclude keys

format(*record*)

Format the specified record into json using the schema which MUST inherit from *logging_ldp.schemas.LDPSchema* to support LDP casting type (see: The field naming convention).

Parameters **record** (*logging.LogRecord*) – Contains all the information pertinent to the event being logged.

Returns A JSON dump of the record.

Return type str

2.2 logging_ldp.handlers — Handlers

class logging_ldp.handlers.**LDPGELFTCPSocketHandler**

The *LDPGELFTCPSocketHandler*, which inherit from logging_gelf.GELFTCPSocketHandler, sends logging output to a TCP/TLS network socket.

__init__(*hostname*)

Initialize a TCP/TLS connection to the given *hostname*.

Parameters **hostname** (*str*) – Hostname/FQDN to connect to.

2.3 logging_ldp.schemas — Schemas

class logging_ldp.schemas.**LDPSchema**

Schema which allow to specify a mapping for logging.LogRecord. It based on logging_gelf.schemas.GelfSchema. All schema MUST inherit from this.

static _forge_key(*key*, *value*)

Allow to rename keys to cast types (see: The field naming convention).

Parameters

- **key** (*str*) – The attribute key
- **value** (*Any*) – The attribute value

Returns The key suffixed

Return type str

Python Module Index

l

Index

Symbols

F

L