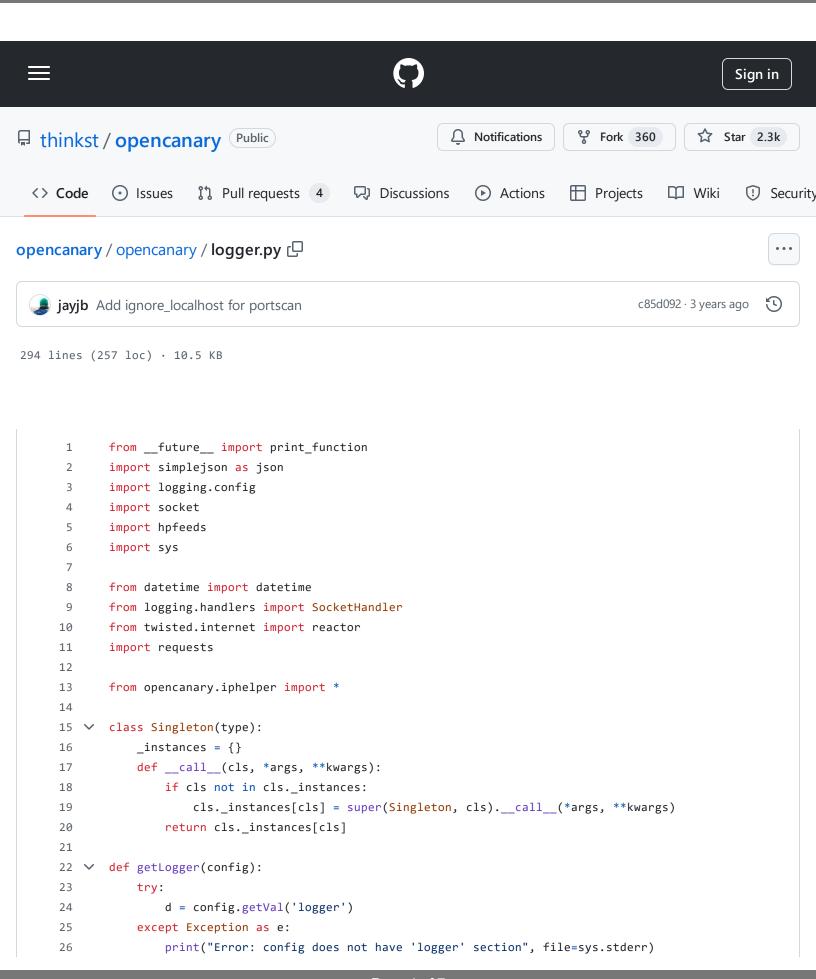
opencanary/opencanary/logger.py at a0896adfcaf0328cfd5829fe10d2878c7445138e · thinkst/opencanary · GitHub - 31/10/2024 09:05



```
27
                    exit(1)
   28
   29
               classname = d.get('class', None)
   30
               if classname is None:
   31
                    print("Logger section is missing the class key.", file=sys.stderr)
    32
                    exit(1)
   33
                                                                                                            ↑ Top
opencanary / opencanary / logger.py
                                                                                                 Raw
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                                                                                                                <>
Code
         Blame
            def getLogger(config):
    22
    39
                kwargs = u.get( kwargs , None)
   40
               if kwargs is None:
   41
                    print("Logger section is missing the kwargs key.", file=sys.stderr)
   42
   43
               try:
   44
                    logger = LoggerClass(config, **kwargs)
   45
               except Exception as e:
                    print("An error occured initialising the logger class", file=sys.stderr)
   46
   47
                    print(e)
                    exit(1)
   48
   49
    50
               return logger
    51
   52
           class LoggerBase(object):
    53
               LOG_BASE_BOOT
                                                              = 1000
    54
               LOG_BASE_MSG
                                                              = 1001
               LOG BASE DEBUG
                                                              = 1002
   55
               LOG_BASE_ERROR
                                                              = 1003
    56
    57
               LOG_BASE_PING
                                                              = 1004
   58
               LOG_BASE_CONFIG_SAVE
                                                              = 1005
               LOG BASE EXAMPLE
                                                              = 1006
    59
               LOG_FTP_LOGIN_ATTEMPT
    60
                                                              = 2000
               LOG_HTTP_GET
                                                              = 3000
   61
               LOG_HTTP_POST_LOGIN_ATTEMPT
                                                              = 3001
   62
               LOG_SSH_NEW_CONNECTION
    63
                                                              = 4000
               LOG_SSH_REMOTE_VERSION_SENT
                                                              = 4001
   64
                                                              = 4002
   65
               LOG_SSH_LOGIN_ATTEMPT
               LOG SMB FILE OPEN
                                                               = 5000
    66
               LOG_PORT_SYN
                                                              = 5001
   67
               LOG_PORT_NMAPOS
                                                              = 5002
   68
    69
               LOG PORT NMAPNULL
                                                               = 5003
               LOG_PORT_NMAPXMAS
   70
                                                              = 5004
   71
               LOG_PORT_NMAPFIN
                                                              = 5005
   72
               LOG TELNET LOGIN ATTEMPT
                                                              = 6001
```

```
73
            LOG_HTTPPROXY_LOGIN_ATTEMPT
                                                           = 7001
 74
            LOG MYSQL LOGIN ATTEMPT
                                                           = 8001
            LOG_MSSQL_LOGIN_SQLAUTH
 75
                                                           = 9001
 76
            LOG_MSSQL_LOGIN_WINAUTH
                                                           = 9002
 77
            LOG TFTP
                                                           = 10001
 78
            LOG_NTP_MONLIST
                                                           = 11001
 79
            LOG_VNC
                                                           = 12001
 80
            LOG SNMP CMD
                                                           = 13001
 81
            LOG RDP
                                                           = 14001
 82
            LOG_SIP_REQUEST
                                                           = 15001
 83
            LOG_GIT_CLONE_REQUEST
                                                           = 16001
 84
            LOG REDIS COMMAND
                                                           = 17001
 85
            LOG TCP BANNER CONNECTION MADE
                                                           = 18001
            LOG_TCP_BANNER_KEEP_ALIVE_CONNECTION_MADE
 86
                                                           = 18002
 87
            LOG TCP BANNER KEEP ALIVE SECRET RECEIVED
                                                           = 18003
            LOG TCP BANNER KEEP ALIVE DATA RECEIVED
                                                           = 18004
 88
 89
            LOG_TCP_BANNER_DATA_RECEIVED
                                                           = 18005
            LOG_USER_0
                                                           = 99000
 91
            LOG USER 1
                                                           = 99001
 92
            LOG USER 2
                                                           = 99002
 93
            LOG_USER_3
                                                           = 99003
 94
            LOG_USER_4
                                                           = 99004
 95
            LOG_USER_5
                                                           = 99005
 96
            LOG USER 6
                                                           = 99006
 97
            LOG_USER_7
                                                           = 99007
 98
            LOG USER 8
                                                           = 99008
 99
            LOG USER 9
                                                           = 99009
100
            def sanitizeLog(self, logdata):
101
102
                 logdata['node id'] = self.node id
103
                 logdata['local time'] = datetime.utcnow().strftime("%Y-%m-%d %H:%M:%S.%f")
                 logdata['utc_time'] = datetime.utcnow().strftime("%Y-%m-%d %H:%M:%S.%f")
104
105
                 logdata['local_time_adjusted'] = datetime.now().strftime("%Y-%m-%d %H:%M:%S.%f")
                 if 'src host' not in logdata:
106
                     logdata['src host'] = ''
107
                if 'src_port' not in logdata:
108
109
                     logdata['src port'] = -1
                 if 'dst host' not in logdata:
110
                     logdata['dst_host'] = ''
111
                 if 'dst_port' not in logdata:
112
113
                     logdata['dst_port'] = -1
114
                 if 'logtype' not in logdata:
115
                     logdata['logtype'] = self.LOG_BASE_MSG
116
                 if 'logdata' not in logdata:
                     logdata['logdata'] = {}
117
                 return logdata
112
```

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___
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119
120 🗸
      class PyLogger(LoggerBase):
121
122
            Generic python logging
123
124
            __metaclass__ = Singleton
125
            def __init__(self, config, handlers, formatters={}):
126 🗸
                self.node_id = config.getVal('device.node_id')
127
128
                # Build config dict to initialise
129
                # Ensure all handlers don't drop logs based on severity level
130
                for h in handlers:
131
                     handlers[h]["level"] = "NOTSET"
132
133
134
                logconfig = {
                     "version": 1,
135
                     "formatters" : formatters,
136
                     "handlers": handlers,
137
                     # initialise all defined logger handlers
138
139
                     "loggers": {
140
                         self.node id : {
                             "handlers": handlers.keys()
141
142
                         }
143
                     }
                }
144
145
146
                try:
147
                     logging.config.dictConfig(logconfig)
148
                except Exception as e:
                     print("Invalid logging config", file=sys.stderr)
149
150
                     print(type(e))
151
                     print(e)
                     exit(1)
152
153
                # Check if ignorelist is populated
154
                self.ignorelist = config.getVal('ip.ignorelist', default='')
155
156
                self.logger = logging.getLogger(self.node_id)
157
158
159 🗸
            def error(self, data):
                data['local_time'] = datetime.utcnow().strftime("%Y-%m-%d %H:%M:%S.%f")
160
161
                msg = '[ERR] %r' % json.dumps(data, sort_keys=True)
162
                print(msg, file=sys.stderr)
163
                self.logger.warn(msg)
```

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```
221
                self.host=str(host)
                self.port=int(port)
222
223
                self.ident=str(ident)
224
                self.secret=str(secret)
                self.channels=map(str,channels)
225
                hpc=hpfeeds.new(self.host, self.port, self.ident, self.secret)
226
                hpc.subscribe(channels)
227
                self.hpc=hpc
228
229
            def emit(self, record):
230 🗸
                try:
231
                    msg = self.format(record)
232
                    self.hpc.publish(self.channels,msg)
233
234
                except:
235
                    print("Error on publishing to server")
236
        class SlackHandler(logging.Handler):
237
            def __init__(self,webhook_url):
238
239
                logging. Handler. init (self)
                self.webhook url=webhook url
240
241
242 🗸
            def generate_msg(self, alert):
                msg = \{\}
243
                msg['pretext'] = "OpenCanary Alert"
244
                data=json.loads(alert.msg)
245
246
                msg['fields']=[]
                for k,v in data.items():
247
                    msg['fields'].append({'title':k, 'value':json.dumps(v) if type(v) is dict else v})
248
                return {'attachments':[msg]}
249
250
            def emit(self, record):
251 🗸
                data = self.generate_msg(record)
252
                response = requests.post(
253
                    self.webhook_url, json=data
254
                     )
255
```

```
256
                if response.status_code != 200:
257
                     print("Error %s sending Slack message, the response was:\n%s" % (response.status_code,
258
259
        class TeamsHandler(logging.Handler):
            def __init__(self,webhook_url):
260
                logging.Handler.__init__(self)
261
                self.webhook_url=webhook_url
262
263
            def message(self, data):
264 🗸
                message = {
265
                     "@type": "MessageCard",
266
                     "@context": "http://schema.org/extensions",
267
                     "themeColor": "49c176",
268
                     "summary": "OpenCanary Notification",
269
                     "title": "OpenCanary Alert",
270
                    "sections": [{
271
                         "facts": self.facts(data)
272
273
                    }]
274
                }
                return message
275
276
            def facts(self, data, prefix=None):
277 🗸
                facts = []
278
279
                for k, v in data.items():
                    key = str(k).lower() if prefix is None else prefix + '__' + str(k).lower()
280
                    if type(v) is not dict:
281
                         facts.append({"name": key, "value": str(v)})
282
283
                    else:
                         nested = self.facts(v, key)
284
                         facts.extend(nested)
285
286
                return facts
287
            def emit(self, record):
288
                data = json.loads(record.msg)
289
                payload = self.message(data)
290
                headers = {'Content-Type': 'application/json'}
291
                response = requests.post(self.webhook_url, headers=headers, json=payload)
292
                if response.status_code != 200:
293
294
                    print("Error %s sending Teams message, the response was:\n%s" % (response.status_code,
```