

Zabbix

task

- dashboard con conteggi aggregati (e altri grafici interessanti)
- trigger di allarme: * luce accesa da troppo tempo
- export dati csv con API
- gestire utente non privilegiato su zabbix
- VPN robusta che riparte quando il cloud non è raggiungibile
- gestire il mancato boot della componente zabbix di hass
 - /etc/openvpn/iotaiuto.conf ?
 - come far ripartire la connessione zabbix all'interno di hass ?
- esphome:
 - costruire in power meter con allarme su alexa
 - costruire un citofono con ESP32 CAM

API

```
#!/bin/sh

# 1. set connection details
url=http://monitor.iotaiuto.it/api_jsonrpc.php
user=xxx
password=xxx

# 2. get authorization token
auth=$(curl -s -X POST \
-H 'Content-Type: application/json-rpc' \
-d " \
{
  \"jsonrpc\": \"2.0\",
  \"method\": \"user.login\",
  \"params\": {
    \"user\": \"$user\",
    \"password\": \"$password\"
  },
  \"id\": 1,
  \"auth\": null
}
" $url | \
jq -r '.result'
)

# 3. show triggers in problem state
curl -s -X POST \
```

```
-H 'Content-Type: application/json-rpc' \
-d " \
{
  \"jsonrpc\": \"2.0\",
  \"method\": \"trigger.get\",
  \"params\": {
    \"output\": \"extend\",
    \"selectHosts\": \"extend\",
    \"filter\": {
      \"value\": 1
    },
    \"sortfield\": \"priority\",
    \"sortorder\": \"DESC\"
  },
  \"auth\": \"$auth\",
  \"id\": 1
}
$url | \
jq -r '.result'

# 4. logout user
curl -s -X POST \
-H 'Content-Type: application/json-rpc' \
-d " \
{
  \"jsonrpc\": \"2.0\",
  \"method\": \"user.logout\",
  \"params\": [],
  \"id\": 1,
  \"auth\": \"$auth\"
}
$url
~ [] Scaricati []
→ []# 1. set connection details
  url=http://127.0.0.1/api_jsonrpc.php
  user=api
  password=zabbix

# 2. get authorization token
auth=$(curl -s -X POST \
-H 'Content-Type: application/json-rpc' \
-d " \
{
  \"jsonrpc\": \"2.0\",
  \"method\": \"user.login\",
  \"params\": {
    \"user\": \"$user\",
    \"password\": \"$password\"
  },
  \"id\": 1,
  # 1. set connection details
```

```
url=http://127.0.0.1/api_jsonrpc.php
user=api \
password=zabbix
)
# 2. get authorization token
auth=$(curl -s -X POST \oblem state
-H 'Content-Type: application/json-rpc' \
-d " \Content-Type: application/json-rpc' \
{
  -d " \
    \"jsonrpc\": \"2.0\",
    \"method\": \"user.login\",
    \"params\": { : \"trigger.get\",
      \"user\": \"$user\",
      \"password\": \"$password\",
    },
    \"selectHosts\": \"extend\",
    \"id\": 1,
    \"filter\": {
      \"auth\": nullvalue: 1
    },
    \"$url | \sortfield\": \"priority\",
    jq -r '.result'rdler\": \"DESC\"
  },
  \"auth\": \"$auth\",
# 3. show triggers in problem state
curl -s -X POST \
  -H 'Content-Type: application/json-rpc' \
  -d \" .result'
{
  \"jsonrpc\": \"2.0\",
  \"method\": \"trigger.get\",
  \"params\": {type: application/json-rpc' \
    \"output\": \"extend\",
    \"selectHosts\": \"extend\",
    \"filter\": {0\",
      \"value\": logout\",
    },ms\": [],
    \"sortfield\": \"priority\",
    \"sortorder\": \"DESC\"
  },
  \"auth\": \"$auth\",
  \"id\": 1
}
\" $url |
  jq -r '.result'

# 4. logout user
curl -s -X POST \
  -H 'Content-Type: application/json-rpc' \
  -d \" \
{
  \"jsonrpc\": \"2.0\",
  \"method\": \"user.logout\",
```

```
        \\"params\": [],
        \\"id\": 1,
        \\"auth\": \\\"$auth\\"
    }
" $url

#!/bin/bash

# 1. set connection details
url=http://monitor.iotaiuto.it/api_jsonrpc.php
user=admin
password=Galileo2018.

# 2. get authorization token
auth=$(curl -s -X POST \
-H 'Content-Type: application/json-rpc' \
-d " \
{
    \\"jsonrpc\\": \\\"2.0\\",
    \\"method\\": \\\"user.login\\",
    \\"params\\": {
        \\"user\\": \\\"$user\\",
        \\"password\\": \\\"$password\\"
    },
    \\"id\\": 1,
    \\"auth\\": null
}
" $url | \
jq -r '.result'
)

# 3. show triggers in problem state
curl -s -X POST \
-H 'Content-Type: application/json-rpc' \
-d " \
{
    \\"jsonrpc\\": \\\"2.0\\",
    \\"method\\": \\\"trigger.get\\",
    \\"params\\": {
        \\"output\\": \\\"extend\\",
        \\"selectHosts\\": \\\"extend\\",
        \\"filter\\": {
            \\"value\\": 1
        },
        \\"sortfield\\": \\\"priority\\",
        \\"sortorder\\": \\\"DESC\\"
    },
    \\"auth\\": \\\"$auth\\",
    \\"id\\": 1
}
" $url | \\"
```

```

jq -r '.result' > ../flussi/dati.json
jq -r 'del(.[].hosts) | (map(keys) | add | unique) as $cols | map(. as $row
| $cols | map($row[.])) as $rows | $cols, $rows[] | @csv'
../flussi/dati.json > ../flussi/dati_trigger.csv
jq -r '(map(.hosts[]) + {"triggerid": .triggerid} | keys) | add | unique) as
$cols | map(. as $row | $cols | map($row[.])) as $rows | $cols, $rows[] |
@csv' ../flussi/dati.json > ../flussi/dati_host.csv
rm ../flussi/dati.json
cat ../flussi/dati_trigger.csv & ../flussi/dati_host.csv

# 4. logout user
curl -s -X POST \
-H 'Content-Type: application/json-rpc' \
-d " \
{
    \"jsonrpc\": \"2.0\",
    \"method\": \"user.logout\",
    \"params\": [],
    \"id\": 1,
    \"auth\": \"$auth\"
}
" $url

```

Patch infinite componente zabbix

```

class ZabbixThread(threading.Thread):
    """A threaded event handler class."""
    # Rename to TRIES and set to 0
    MAX_TRIES = 3

    def __init__(self, hass, zabbix_sender, event_to_metrics):
        """Initialize the listener."""
        threading.Thread.__init__(self, name="Zabbix")
        self.queue = queue.Queue()
        self.zabbix_sender = zabbix_sender
        self.event_to_metrics = event_to_metrics
        self.write_errors = 0
        self.shutdown = False
        self.float_keys = set()
        self.string_keys = set()

    def setup(self, hass):
        """Set up the thread and start it."""
        hass.bus.listen(EVENT_STATE_CHANGED, self._event_listener)
        hass.bus.listen_once(EVENT_HOMEASSISTANT_STOP, self._shutdown)
        self.start()
        _LOGGER.debug("Started publishing state changes to Zabbix")

```

```
def _shutdown(self, event):
    """Shut down the thread."""
    self.queue.put(None)
    self.join()

@callback
def _event_listener(self, event):
    """Listen for new messages on the bus and queue them for Zabbix."""
    item = (time.monotonic(), event)
    self.queue.put(item)

def get_metrics(self):
    """Return a batch of events formatted for writing."""
    # Replace MAX_TRIES to TRIES
    queue_seconds = QUEUE_BACKLOG_SECONDS + self.MAX_TRIES * RETRY_DELAY

    count = 0
    metrics = []

    dropped = 0

    with suppress(queue.Empty):
        while len(metrics) < BATCH_BUFFER_SIZE and not self.shutdown:
            timeout = None if count == 0 else BATCH_TIMEOUT
            item = self.queue.get(timeout=timeout)
            count += 1

            if item is None:
                self.shutdown = True
            else:
                timestamp, event = item
                age = time.monotonic() - timestamp

                if age < queue_seconds:
                    event_metrics = self.event_to_metrics(
                        event, self.float_keys, self.string_keys
                    )
                    if event_metrics:
                        metrics += event_metrics
                else:
                    dropped += 1

        if dropped:
            _LOGGER.warning("Catching up, dropped %d old events", dropped)

    return count, metrics

def write_to_zabbix(self, metrics):
    """Write preprocessed events to zabbix, with retry."""
    # while True:
    for retry in range(self.MAX_TRIES + 1):
```

```
try:
    self.zabbix_sender.send(metrics)
    if self.write_errors:
        _LOGGER.error("Resumed, lost %d events",
self.write_errors)
        self.write_errors = 0

    _LOGGER.debug("Wrote %d metrics", len(metrics))
    # Put [selfTRIES = 0]
    break

except OSError as err:
    # [time.sleep(RETRY_DELAY)] out of [if retry <
self.MAXTRIES:]
    if retry < self.MAXTRIES:
        # Put [selfTRIES += 1]
        time.sleep(RETRY_DELAY)
    else:
        if not self.write_errors:
            _LOGGER.error("Write error: %s", err)
        self.write_errors += len(metrics)
```

From:
<https://wiki.csgalileo.org/> - **Galileo Labs**



Permanent link:
<https://wiki.csgalileo.org/tips/zabbix?rev=1627292253>

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