

```
#contentWrapper #fs, #sidebarContent #fs, #contentWrapper div [id * = 'myExtraContent'], #sidebarContent div [id * = 'myExtraContent']  
{display: block;}
```

The Kermith workshop (https://translate.googleusercontent.com/translate_c?depth=1&hl=en&prev=search&rurl=translate.google.com&sl=fr&sp=nmt4&u=htt

Rest API of Centreon with LiveCode

Article créé ou modifié le : 18/1/2018

web : SUPPORTED

clapi: SUPPORTED



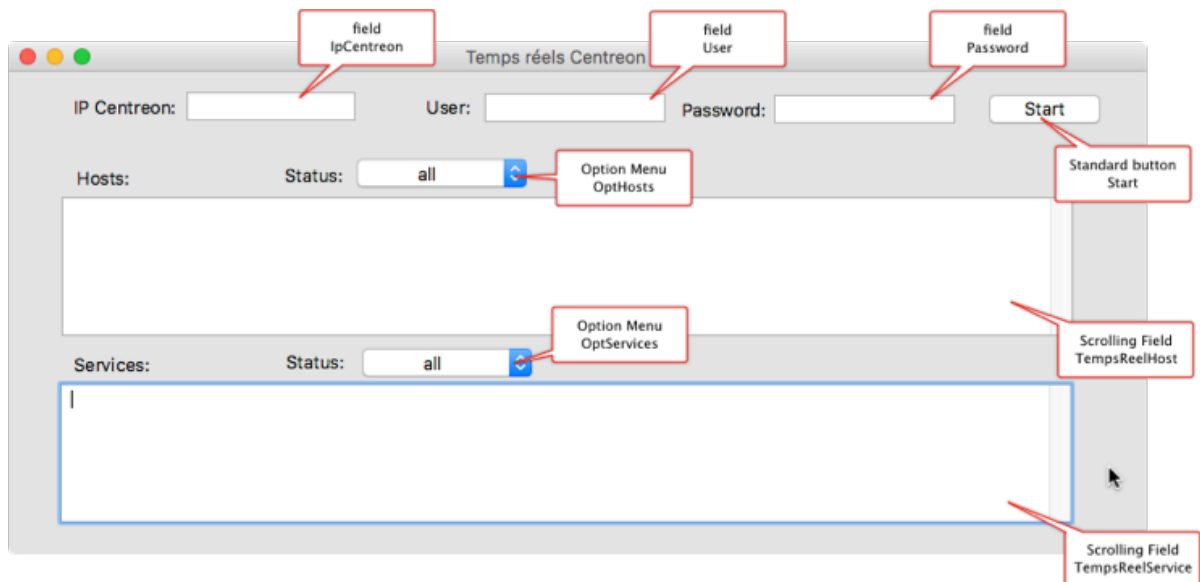
Here's a program for budding developers like me to use Centreon's Rest API with a graphical interface. We will use LiveCode, a fast multiplatform development environment. The realized program will be able to work as well on windows, Mac OS or Linux. In spite of its somewhat peculiar language, we will realize a summary interface of a real time Centreon.

1 Prerequisite

We will use LiveCode Community 9. We will need a Centreon monitoring server with an account that is allowed to make Rest API requests.

2 Creating the interface

Our interface will be relatively simple for the moment. We will have a single window called stack.



Creating the interface

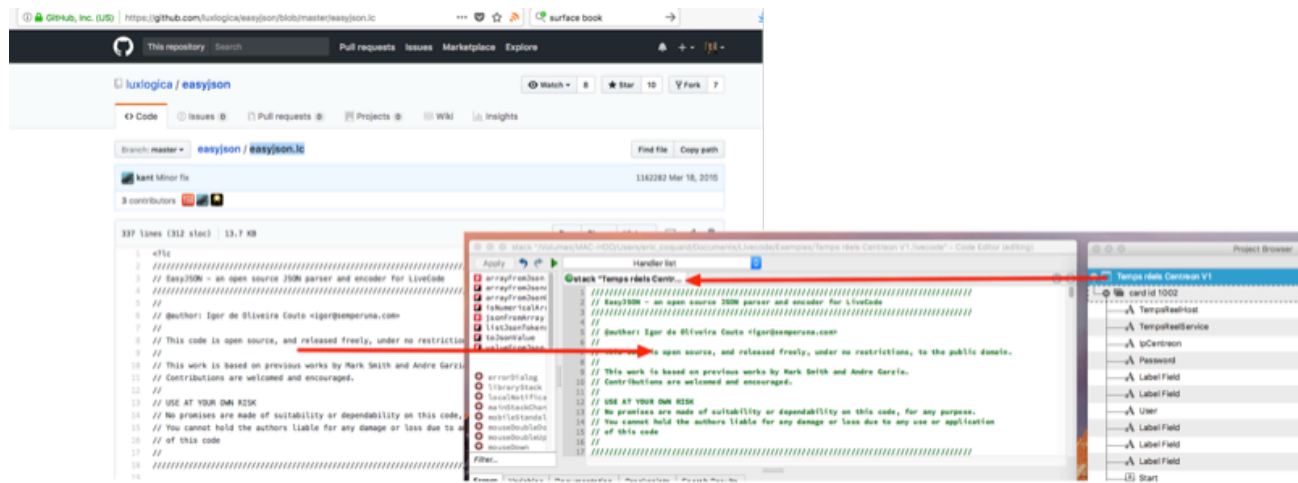
3 The code of the interface

It will be necessary to add the library for the management of the JSON results. You will find this library at this address

<https://github.com/luxlogica/easyjson> (https://translate.googleusercontent.com/translate_c?depth=1&hl=en&prev=search&rurl=translate.google.com&sl=fr&sp=nmt4&u=https://github.com/luxlogica/easyjson&xid=25657,15

<https://github.com/luxlogica/easyjson>&xid=25657,15

. Just copy the contents of the easyjson.lc file and paste it into the program project.



Adding the library

Currently our project is reduced to its simplest expression:

- setting the Api Rest connection
- password management (you have to recognize a little twisted with LiveCode)
- Host and service status management
- launching the order with the result.

3.1 setting the Api Rest connection

We will need the IP address of the Centreon server, the user and his password which is entitled to Api Rest. There will also be the password management of the Field password object.

we keyDown pKeyName

put the hiddenText of me into temp

put pKeyName after temp

set the hiddenText of me to temp

put "*" after me

put temp

end keyDown

on backspaceKey

set the hiddenText of me to empty

set the text of me to empty

end backspaceKey

For the preparation of the request, we will use the button object. We recover the authentication token before issuing the command to obtain the real time.

on mouseUp pMouseButton

- empty fields

put empty into fld "TimeReelHost"

put empty into fld "TimeReelService"

put the fld "IpCentreon" into tIpCentreon

put the fld "User" into tUser

put the hiddenText of fld "Password" into tPassword

put "Accept: application / json, text / plain, text / event-stream" & cr about couchHeaders

put "Content-Type: application / x-www-form-urlencoded" after couchHeaders

set httpheaders to couchHeaders

put "username =" & tUser & " password =" & tPassword into tData

put "http: //" & tIpCentreon & "/centreon/api/index.php?action=authenticate" into tUrl

post tData to URL tUrl

```

put JSONArray ( the urlResponse ) into tAuthenticate
put tAuthenticate [ "authToken" ] into tToken

```

```

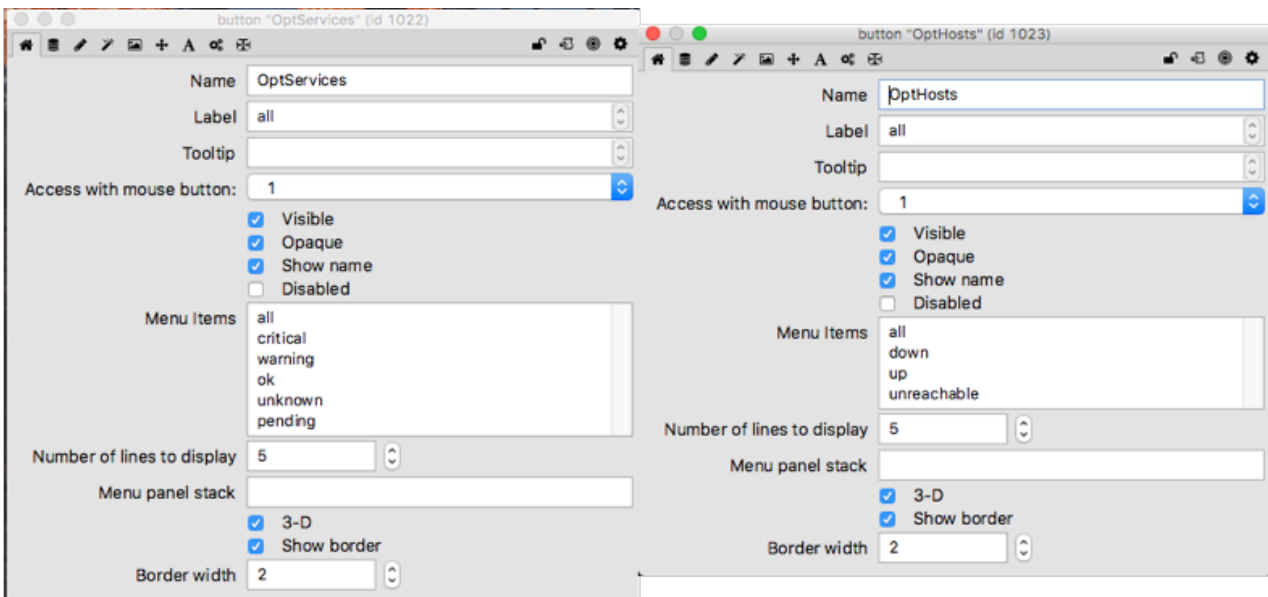
put "Content-Type: application / json" & cr about couchHeaders
put "centeron-auth-token:" after couchHeaders
put tToken after couchHeaders
set httpheaders to couchHeaders

```

.....

end mouseUp

Before going any further, you will add two Option Menu OptHosts and OptServices objects that correspond to different states of hosts and services.



object properties Option Menu

And here is the code for OptHosts

global tOptHosts

- Sent when a menu item is picked from the menu option

on menuPick pltem

switch pltem

case "all"

put "& status = all" into tOptHosts

break

box "down"

put "& status = down" into tOptHosts

break

case "up"

put "& status = up" into tOptHosts

break

case "unreachable"

put "& status = unreachable" into tOptHosts

break

end switch

end menuPick

and for OptServices

global tOptServices

- Sent when a menu item is picked from the menu option

on menuPick pltem

switch pltem

case "all"

put "& status = all" into tOptServices

break

case "warning"

put "& status = warning" into tOptServices

break

case "critical"

put "& status = critical" into tOptServices

break

case "ok"

put "& status = ok" into tOptServices

break

case "pending"

put "& status = pending" into tOptServices

break

case "unknown"

put "& status = unknown" into tOptServices

break

end switch

end menuPick

We still have to add the code in the button object that will display the real time.

global tOptHosts

global tOptServices

- Sent when the mouse is released by clicking

- pMouseButton which mouse button was pressed

on mouseUp pMouseButton

- empty fields

put empty into fld "TimeReelHost"

put empty into fld "TimeReelService"

put the fld "IpCentreon" into tIpCentreon

put the fld "User" into tUser

put the hiddenText of fld "Password" into tPassword

put "Accept: application / json, text / plain, text / event-stream" & cr about couchHeaders

put "Content-Type: application / x-www-form-urlencoded" after couchHeaders

set httpheaders to couchHeaders

put "username =" & tUser & "& password =" & tPassword into tData

put "http: //" & tIpCentreon & "/centreon/api/index.php?action=authenticate" into tUrl

post tData to URL tUrl

put JSONToArray (the urlResponse) into tAuthenticate

put tAuthenticate ["authToken"] into tToken

put "Content-Type: application / json" & cr about couchHeaders

put "centeron-auth-token:" after couchHeaders

put tToken after couchHeaders

set httpheaders to couchHeaders

put "http: //" & tIpCentreon & "/centreon/api/index.php?object=centreon_realtime_hosts&action=list" & tOptHosts into tUrlHost

put URL tUrlHost into fld "TimeReelHost"

put "http: //" & tIpCentreon & "/centreon/api/index.php?object=centreon_realtime_services&action=list" & tOptServices into tUrlService

put URL tUrlService into fld "TimeReelService"

end mouseUp

Attention the number of display of objects will be limited to 30, to increase this limit, it will be necessary to play with the variable limit. We'll see more features of the Rest Centreon API soon. You can download the first version of [my program](https://translate.googleusercontent.com/translate_c?depth=1&hl=en&prev=search&rurl=translate.google.com&sl=fr&sp=nmt4&u=http://www.sugarbug.fr/resources/LiveCode/API-Rest/Temps-re%25CC%2581els-Centreon-V1.livecode&xid=25657,15700022,15700124,15700149,15700186,15700191,15700201&usg=ALkJrhjy-MSTTR-pRrnw0Dj21-X_oC9b1g)

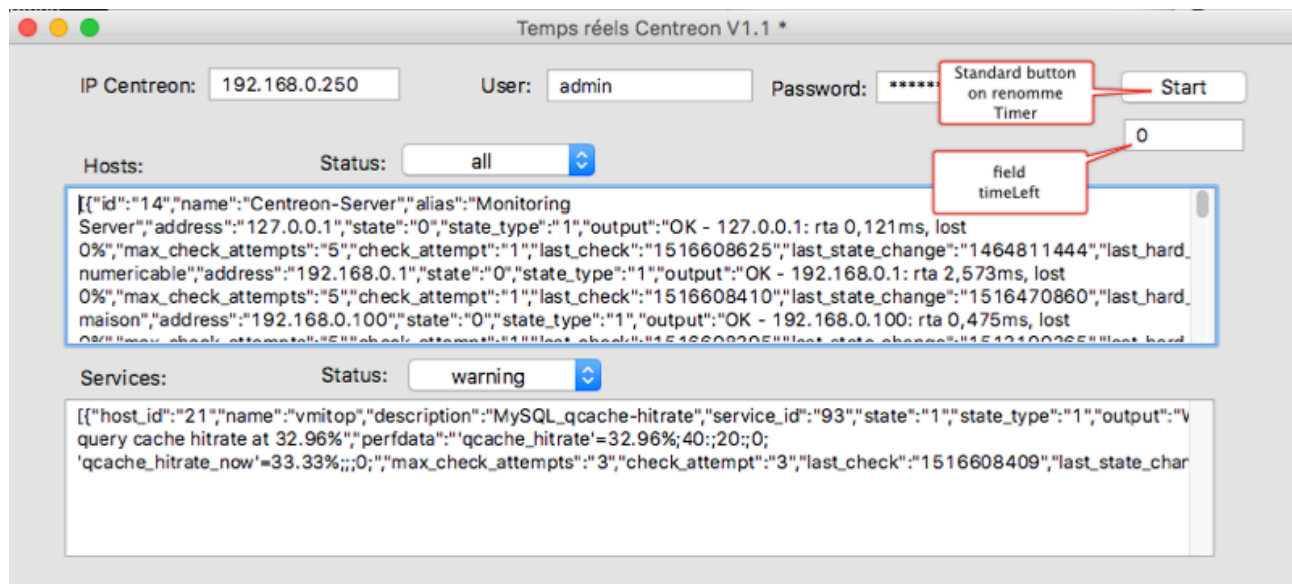
([https://translate.googleusercontent.com/translate_c?](https://translate.googleusercontent.com/translate_c?depth=1&hl=en&prev=search&rurl=translate.google.com&sl=fr&sp=nmt4&u=http://www.sugarbug.fr/resources/LiveCode/API-Rest/Temps-re%25CC%2581els-Centreon-V1.livecode&xid=25657,15700022,15700124,15700149,15700186,15700191,15700201&usg=ALkJrhjy-MSTTR-pRrnw0Dj21-X_oC9b1g)

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4 Adding a timer for queries

Let's improve our program by adding a timer to execute queries automatically every minute. We will add a field object named timeLeft. the start button will be renamed timer



adding a timer

Any part of the code that makes the API Rest request will be copied to a function called RequireAPIRest. We'll add another function for the one-minute timer, which will be called timerCountDown

global countDownValue

global tOptHosts

global tOptServices

on timerCountDown

subtract 1 from CountDownValue

if countDownValue> 0 **then**

```

    put countdownValue into field "timeLeft"
    send "timerCountDown" to me in 1 sec
else
    if the label of button "Timer" = "Stop" then
        RequeteAPIRest
        put 60 into countdownValue
        put countdownValue into field "timeLeft"
        send "timerCountDown" to me in 1 sec
    else
        put 0 into countdownValue
        put countdownValue into field "timeLeft"
    end if
end if
end timerCountDown

```

On requestAPIRest

- empty fields

```

put empty into fld "TimeReelHost"
put empty into fld "TimeReelService"

```

```

put the fld "IpCentreon" into tIpCentreon
put the fld "User" into tUser
put the hiddenText of fld "Password" into tPassword

```

```

put "Accept: application / json, text / plain, text / event-stream" & cr about couchHeaders
put "Content-Type: application / x-www-form-urlencoded" after couchHeaders
set httpheaders to couchHeaders

```

```

put "username =" & tUser & "& password =" & tPassword into tData
put "http: //" & tIpCentreon & "/centreon/api/index.php?action=authenticate" into tUrl
post tData to URL tUrl
put JSONArray ( the urlResponse ) into tAuthenticate
put tAuthenticate [ "authToken" ] into tToken

```

```

put "Content-Type: application / json" & cr about couchHeaders
put "centeron-auth-token:" after couchHeaders
put tToken after couchHeaders
set httpheaders to couchHeaders

```

```

put "http: //" & tIpCentreon & "/centreon/api/index.php?object=centreon_realtime_hosts&action=list" & tOptHosts into tUrlHost

```

```

put URL tUrlHost into fld "TimeReelHost"

```

```

put "http: //" & tIpCentreon & "/centreon/api/index.php?object=centreon_realtime_services&action=list" & tOptServices into
tUrlService

```

```

put URL tUrlService into fld "TimeReelService"

```

end RequireAPIRest

Let's change the timer button code

global tOptHosts

global tOptServices

global countdownValue

- Sent when the mouse is released by clicking

- pMouseButton which mouse button was pressed

on mouseUp pMouseButton

if the label of button "Timer" = "Start" **then**
 set the label of the button "Timer" to "Stop"
 put 60 into countDownValue
 put countDownValue into field "timeLeft"
 send "timerCountDown" to me in 1 sec

RequeteAPIRest

else

set the label of button "Timer" to "Start"
 put 0 into countDownValue
 put countDownValue into field "timeLeft"

end if

end mouseUp

The program is now modified, during the first request we trigger a timer that will execute an API Rest request automatically every minute. To stop automatic queries, simply click the button again. You can download version 1.1 of [my program](#)

([https://translate.googleusercontent.com/translate_c?](https://translate.googleusercontent.com/translate_c?depth=1&hl=en&prev=search&rurl=translate.google.com&sl=fr&sp=nmt4&u=http://www.sugarbug.fr/resources/LiveCode/API-Rest/Temps-re%25CC%2581els-Centreon-V1.1.livecode&xid=25657,15700022,15700124,15700149,15700186,15700191,15700201&usg=ALkJrhj1-48G0V_f9TPD7L0qVO3WzPmUzA)

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Last modification: 28/08/2018

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