

OpenNebula - Backlog #3538

Enable path based NoVNC

01/30/2015 05:51 PM - EOLE Team

Status:	New	Start date:	01/30/2015
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Sunstone	Estimated time:	0.00 hour
Target version:	Release 5.2		

Description

Hello,

Actually we have the **websocketproxy.py** listening on the port **29876** and the NoVNC client open a WebSocket directly on that port.

I would like the client to only use the port **443** as I already have a nginx reverse proxy.

I setup a nginx location pointing to **websocketproxy.py**:

```
# /etc/nginx/sites-available/opennebula-sunstone
# Please see /usr/share/doc/nginx-doc/examples/ for more detailed examples.
##
```

```
upstream sunstone {
    server 127.0.0.1:9869;
}
```

```
upstream websocketproxy {
    server 127.0.0.1:29876;
}
```

```
# Port 80 redirected to SSL
server {
    listen 80;
    server_name nebula.example.net;
```

```
    location / {
        return 301 https://$host;
    }
}
```

```
server {
    listen 443 default_server;
    listen [::]:443 default_server ipv6only=on;

    ssl on;
    ssl_certificate /etc/nginx/ssl/server.crt;
    ssl_certificate_key /etc/nginx/ssl/server.key;
```

```
    root /usr/share/nginx/html;
    index index.html index.htm;
```

```
    server_name nebula.example.net;
```

```
access_log /var/log/nginx/opennebula-sunstone-access.log;
error_log /var/log/nginx/opennebula-sunstone-error.log;

# To upload ISO files, increase for VMs images
client_max_body_size 1G;
location / {
    include proxy_params;
    proxy_pass http://sunstone;
}

location /websocketify {
    proxy_pass http://websocketproxy;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
}
}
```

In NoVNC:

- if the port is not set(1), it use the same as the current connection
- the **path** parameter(2) is used as the **full path of the resource**

For what I see, this would require:

- add a **vnc_proxy_path** to customize the NoVNC **path** parameter if wanted
- add a **vnc_proxy_listen** to customize the **websocketproxy.pysource_addr** with default to **0.0.0.0**
- add a flag to disable passing the **vnc_proxy_port** as **port=** parameter to NoVNC

Regards.

(1) source:src/sunstone/public/bower_components/no-vnc/vnc_auto.html#L168

(2) source:src/sunstone/public/bower_components/no-vnc/vnc_auto.html#L185

History

#1 - 02/02/2015 10:53 AM - Daniel Molina

- Tracker changed from Request to Feature
- Status changed from Pending to New
- Priority changed from Normal to High

#2 - 02/04/2015 07:26 PM - Ruben S. Montero

- Tracker changed from Feature to Backlog

#3 - 03/16/2015 03:45 PM - Nico Schottelius

We are also very much interested in this feature, as we are running opennebula behind nginx for ssl encryption.

#4 - 03/16/2015 04:44 PM - Ruben S. Montero

- Tracker changed from Backlog to Feature

- Target version set to Release 4.14

Moving this to 4.14, thanks for the feedback

#5 - 03/30/2015 06:34 PM - Roy Keene

- File *opennebula-4.12.0-vncoversameport.diff* added

I currently do this with HAProxy.

```
cat <<\_EOF_> /etc/haproxy.cfg
global
  user nobody
  maxconn 4096

  ssl-default-bind-options no-sslv3
  ssl-default-bind-ciphers
ECDH+AESGCM:DH+AESGCM:ECDH+AES256:DH+AES256:ECDH+AES128:DH+AES:ECDH+3DES:DH+3DES:RSA+AESGCM:RSA+AES:RSA+3DES:
:RSA+3DES:!aNULL:!MD5:!DSS:!SSLv3:!SSLv2
  ssl-default-server-options no-sslv3
  ssl-default-server-ciphers
ECDH+AESGCM:DH+AESGCM:ECDH+AES256:DH+AES256:ECDH+AES128:DH+AES:ECDH+3DES:DH+3DES:RSA+AESGCM:RSA+AES:RSA+3DES:
:RSA+3DES:!aNULL:!MD5:!DSS:!SSLv3:!SSLv2

defaults
  mode http
  timeout connect 5000ms
  timeout client 50000ms
  timeout server 50000ms
  option http-server-close

frontend sunstone-vnc-in
  bind *:80
  acl is_websocket hdr(Upgrade) -i WebSocket
  use_backend vncwebsockets if is_websocket
  default_backend sunstone

frontend sunstone-vnc-tls-in
  bind *:443 ssl crt /dashboard/ssl/combined
  acl is_websocket hdr(Upgrade) -i WebSocket
  use_backend vncwebsockets if is_websocket
  default_backend sunstone

frontend oned-tls-in
  bind *:2634 ssl crt /dashboard/ssl/combined
  default_backend oned

backend sunstone
  server localhost-sunstone 127.0.0.1:9869 maxconn 128
```

```
backend vncwebsockets
  server localhost-vncwebsockets 127.0.0.1:29876
```

```
backend oned
  server localhost-oned 127.0.0.1:2633
```

```
_EOF_
haproxy -f /etc/haproxy.cfg -dM &
```

Patch attached for using the same port and hostname (always)

#6 - 05/09/2015 08:12 PM - Nico Schottelius

I've just checked which errors we actually get when trying to use nginx + ssl + sunstone. When pressing the vnc button, chromium shows the following errors:

```
Mixed Content: The page at 'https://our-hosting-server01.ungleich.ch/' was loaded over HTTPS, but attempted to connect to the insecure WebSocket endpoint 'ws://localhost:17523/'. This request has been blocked; this endpoint must be available over WSS.
util.js:138 New state 'loaded', was 'disconnected'. Msg: noVNC ready: native WebSockets, canvas rendering
util.js:138 New state 'connect', was 'loaded'.
websocket.js:285 Mixed Content: The page at 'https://our-hosting-server01.ungleich.ch/' was loaded over HTTPS, but attempted to connect to the insecure WebSocket endpoint 'ws://localhost:17523/'. This request has been blocked; this endpoint must be available over WSS.
websocket.js:285 Mixed Content: The page at 'https://our-hosting-server01.ungleich.ch/' was loaded over HTTPS, but attempted to connect to the insecure WebSocket endpoint 'ws://localhost:17523/'. This request has been blocked; this endpoint must be available over WSS.
util.js:139 Skipping unsupported WebSocket binary sub-protocol
websocket.js:333 Mixed Content: The page at 'https://our-hosting-server01.ungleich.ch/' was loaded over HTTPS, but attempted to connect to the insecure WebSocket endpoint 'ws://our-hosting-server01.ungleich.ch:29876/?token=t8opcrssdsouytpjnh0q'. This request has been blocked; this endpoint must be available over WSS.
websocket.js:333 Uncaught SecurityError: Failed to construct 'WebSocket': An insecure WebSocket connection may not be initiated from a page loaded over HTTPS.
```

Is there any progress on supporting this?

#7 - 08/26/2015 09:38 AM - Daniel Molina

- Priority changed from High to Normal

#8 - 08/26/2015 09:43 AM - Tino Vázquez

- Tracker changed from Feature to Backlog

#9 - 10/03/2015 07:02 PM - Ruben S. Montero

- Status changed from New to Pending

#10 - 10/03/2015 07:03 PM - Ruben S. Montero

- Target version changed from Release 4.14 to Release 5.0

#11 - 01/04/2016 11:34 AM - Ruben S. Montero

- Tracker changed from Backlog to Feature

- Status changed from Pending to New

#12 - 04/25/2016 04:27 PM - Carlos Martín

- Tracker changed from Feature to Backlog

#13 - 06/08/2016 10:14 AM - Carlos Martín

- Target version changed from Release 5.0 to Release 5.2

#14 - 11/22/2016 10:23 PM - Perry Manuk

would like to add a +1 to this

#15 - 08/17/2017 11:44 AM - Arnaud Abélard

5.4 is out and this still doesn't seem to be possible. We also would like this to be implemented.

Files

opennebula-4.12.0-vncoverameport.diff	4.09 KB	03/30/2015	Roy Keene
---------------------------------------	---------	------------	-----------