

FreeNAS - Bug #28035

Add APIs to restart-httpd and restart-httpd-all

01/29/2018 05:18 AM - Dan Brown

Status:	Done	
Priority:	No priority	
Assignee:	Vladimir Vinogradenko	
Category:	Middleware	
Target version:	11.1-U2	
Seen in:	11.1-U1	Needs Merging: No
Severity:	New	Needs Automation: No
Reason for Closing:		Support Suite Ticket: n/a
Reason for Blocked:		Hardware Configuration:
Needs QA:	Yes	ChangeLog Required: No
Needs Doc:	No	

Description

I'm working on a script to automate deployment of TLS certificates to FreeNAS, so that they can be automatically issued and renewed from Let's Encrypt--see <https://forums.freenas.org/index.php?threads/automate-update-of-ssl-certificate.58025/> for the discussion (but please don't laugh at my very noob-ish Python code). I'm able to upload the cert, get its id, and set that ID as the GUI certificate using the API. However, the new certificate isn't used without the web server restarting for some other reason.

When I change the GUI certificate using the GUI, the web server reloads so that the newly-specified cert is used immediately. But when I make this change through the API, the reload doesn't appear to happen, and I don't see an API call to force the reload.

It seems like something is missing from the API, unless I'm just overlooking it. Or is it just expected that I'd just do "service nginx reload"?

Associated revisions

Revision 09e1b084 - 02/05/2018 08:29 AM - Vladimir Vinogradenko

fix(api): Add `POST /api/v1.0/system/settings/restart-httpd/` and `POST /api/v1.0/system/settings/restart-httpd-all/`

Ticket: #28035

Revision 06547b65 - 02/05/2018 08:30 AM - Vladimir Vinogradenko

fix(api): Add `POST /api/v1.0/system/settings/restart-httpd/` and `POST /api/v1.0/system/settings/restart-httpd-all/`

Ticket: #28035

History

#1 - 01/29/2018 06:13 AM - Vladimir Vinogradenko

- Status changed from *Unscreened* to *Closed*

- Reason for Closing set to *Behaves as Intended*

Web UI calls GET /legacy/system/restart-httpd/ (or GET /legacy/system/restart-httpd-all/ if stg_guiprotocol was changed) after processing your request, so you'll have to do this manually too. If API would do nginx restart while processing your request, you won't be able to receive a response. This may be improved somehow in the future, but for now please do GET /legacy/system/restart-httpd/ after configuration update.

#2 - 01/29/2018 07:26 AM - Dru Lavigne

- Target version set to N/A

#3 - 02/04/2018 03:12 AM - Dan Brown

Is there perhaps a different API call that needs to be made? restart-httpd (and even restart-httpd-all) do not result in the new certificate being used.

#4 - 02/04/2018 03:28 AM - Vladimir Vinogradenko

Dan, what was HTTP response for these requests?

#5 - 02/04/2018 03:51 AM - Dan Brown

It responded 200.

#6 - 02/04/2018 06:27 AM - Chris H

I observed the same as Dan in a python script. Minimally, if I run:

```
curl -H "Content-Type: application/json" -vu USER:PASS -Li https://SERVER/legacy/reload-httpd/
```

I get a 302 to "/", then a 302 to "/account/login?next=", then a 200. I assume I am doing it wrong; could you please advise how?

#7 - 02/04/2018 06:32 AM - Vladimir Vinogradenko

Chris, sorry, please try without /legacy/:

```
curl -H "Content-Type: application/json" -vu USER:PASS -Li https://SERVER/reload-httpd/
```

#8 - 02/04/2018 06:36 AM - Chris H

Hm, that gives me the same chain of 302->302->200, and the new certificate (which is active in the GUI) is not presented.

#9 - 02/04/2018 06:44 AM - Vladimir Vinogradenko

- Status changed from Closed to In Progress
- Target version changed from N/A to 11.1-U2
- Reason for Closing deleted (Behaves as Intended)

Looks like HTTP Basic Authentication won't work for /system/restart-httpd/. I am reopening this ticket and will add this method into API.

#10 - 02/04/2018 06:56 AM - Dru Lavigne

- Assignee changed from Release Council to Vladimir Vinogradenko

#11 - 02/05/2018 08:32 AM - Vladimir Vinogradenko

- Status changed from In Progress to Done

Done. New methods are

POST /api/v1.0/system/settings/restart-httpd/

and

POST /api/v1.0/system/settings/restart-httpd-all/

#12 - 02/05/2018 04:09 PM - Dru Lavigne

- Subject changed from *Updating stg_guicertificate via API does not reload nginx to use new certificate* to *Add APIs to restart-httpd and restart-httpd-all*

#13 - 02/15/2018 11:18 AM - Dru Lavigne

- Needs Doc changed from Yes to No

#14 - 02/15/2018 11:23 AM - Dru Lavigne

- Needs Merging changed from Yes to No

#15 - 06/09/2018 06:50 PM - Jason Keller

- Severity set to New

I'm attempting this from Ubuntu 16.04 using Python 3.5, and these endpoints don't seem to work...only giving me a 405 even though it clearly states that it wants a POST.

Python snippet is below...

```
_r = requests.post(
    'https://' + _host['fqdn'] + '/api/v1.0/system/settings/restart-httpd',
    auth=(_host['user'], _host['password']),
    headers={'Content-Type': 'application/json'},
    data=json.dumps({}),
    verify=False,
)
```

I've tried it with and without the `json.dumps({})` section, without headers, etc, no difference. Currently running 11.1-U5 from stable branch.

#16 - 06/12/2018 01:31 AM - Vladimir Vinogradenko

Jason, you've forgot to add trailing slash. It should be:

```
_r = requests.post(
    'https://' + _host['fqdn'] + '/api/v1.0/system/settings/restart-httpd/',
```

Please note that you'll still got an exception:

```
requests.exceptions.ConnectionError: ('Connection aborted.', BadStatusLine("''",))
```

That's because HTTP server will restart immediately leaving itself no chance to send response.

#17 - 06/12/2018 08:06 PM - Jason Keller

My apologies Vladimir - indeed the trailing slash caused it to work, and I handled the connection exception through this method...

```
try:
    _r = requests.post(
        'https://' + _host['fqdn'] + '/api/v1.0/system/settings/restart-http/',
        auth=(_host['user'], _host['password']),
        verify=verify,
    )

except requests.exceptions.ConnectionError:
    _flag = True
```

Confirmed working - apologies again for the mix up.