

Foreman - Bug #34024

Could not evaluate: Exception SSL_connect returned=1 errno=0 state=error: certificate verify failed (self signed certificate in certificate chain)

11/28/2021 11:01 AM - Kailash Kumawat

Status: New	
Priority: High	
Assignee:	
Category:	
Target version:	
Difficulty: hard	Fixed in Releases:
Triaged: No	Found in Releases:
Bugzilla link:	Red Hat JIRA:
Pull request:	

Description

I have freshly installed foreman with katello, its get successfully installed but getting error while updating the certificate. Whereas I am able to validate the certificate using katello-certs-check

Please find the below katello-certs-check output

```
#katello-certs-check -t foreman -c /etc/pki/tls/certs/spdji_spgi_cert.crt -k /etc/pki/tls/certs/spdji_spgi.key -b /etc/pki/tls/certs/ROOTCA-CA_spdji_spgi.crt
```

Checking server certificate encoding:

[OK]

Checking expiration of certificate:

[OK]

Checking expiration of CA bundle:

[OK]

Checking if server certificate has CA:TRUE flag

[OK]

Checking for private key passphrase:

[OK]

Checking to see if the private key matches the certificate:

[OK]

Checking CA bundle against the certificate file:

[OK]

Checking CA bundle size: 2

[OK]

Checking Subject Alt Name on certificate

[OK]

Checking if any Subject Alt Name on certificate matches the Subject CN

[OK]

Checking Key Usage extension on certificate for Key Encipherment

[OK]

Checking for use of shortname as CN

[OK]

Validation succeeded

To install the Katello server with the custom certificates, run:

```
foreman-installer --scenario katello \  
    --certs-server-cert "/etc/pki/tls/certs/spdji_spgi_cert.crt" \  
    --certs-server-key "/etc/pki/tls/certs/spdji_spgi.key" \  
    --certs-server-ca-cert "/etc/pki/tls/certs/ROOTCA-CA_spdji_spgi.crt"
```

To update the certificates on a currently running Katello installation, run:

```
foreman-installer --scenario katello \  
    --certs-server-cert "/etc/pki/tls/certs/spdji_spgi_cert.crt" \  
    --certs-server-key "/etc/pki/tls/certs/spdji_spgi.key" \  
    --certs-server-ca-cert "/etc/pki/tls/certs/ROOTCA-CA_spdji_spgi.crt" \  
    --certs-update-server --certs-update-server-ca
```

To use them inside a NEW \$FOREMAN_PROXY, rerun this command with -t foreman-proxy

```
#foreman-installer --scenario katello  
2021-11-28 10:06:08 [NOTICE] [root] Loading installer configuration. This will take some time.  
2021-11-28 10:06:14 [NOTICE] [root] Running installer with log based terminal output at level NOTICE.  
2021-11-28 10:06:14 [NOTICE] [root] Use -l to set the terminal output log level to ERROR, WARN, NOTICE, INFO, or DEBUG. See  
--full-help for definitions.  
2021-11-28 10:11:27 [NOTICE] [configure] Starting system configuration.  
2021-11-28 10:13:38 [NOTICE] [configure] 250 configuration steps out of 1690 steps complete.  
2021-11-28 10:14:52 [NOTICE] [configure] 500 configuration steps out of 1690 steps complete.  
2021-11-28 10:14:53 [NOTICE] [configure] 750 configuration steps out of 1694 steps complete.  
2021-11-28 10:16:20 [NOTICE] [configure] 1000 configuration steps out of 1707 steps complete.  
2021-11-28 10:16:23 [NOTICE] [configure] 1250 configuration steps out of 1721 steps complete.  
2021-11-28 10:24:08 [NOTICE] [configure] 1500 configuration steps out of 1721 steps complete.  
2021-11-28 10:27:33 [NOTICE] [configure] System configuration has finished.  
Executing: foreman-rake upgrade:run =====  
Upgrade Step 1/7: katello:correct_repositories. This may take a long while.  
=====  
Upgrade Step 2/7: katello:clean_backend_objects. This may take a long while.  
0 orphaned consumer id(s) found in candlepin.  
Candlepin orphaned consumers: [] =====  
Upgrade Step 3/7: katello:upgrades:4.0:remove_ostree_puppet_content. =====  
Upgrade Step 4/7: katello:upgrades:4.1:sync_noarch_content. =====  
Upgrade Step 5/7: katello:upgrades:4.1:fix_invalid_pools. I, [2021-11-28T10:27:47.392093 #22582] INFO -- : Corrected 0 invalid  
pools  
I, [2021-11-28T10:27:47.392143 #22582] INFO -- : Removed 0 orphaned pools  
=====  
Upgrade Step 6/7: katello:upgrades:4.1:reupdate_content_import_export_perms.  
=====  
Upgrade Step 7/7: katello:upgrades:4.2:remove_checksum_values. Success! * Foreman is running at https://frm.infra.spdji.spgi  
Initial credentials are admin / ##### * To install an additional Foreman proxy on separate machine continue by  
running:foreman-proxy-certs-generate --foreman-proxy-fqdn "$FOREMAN_PROXY" --certs-tar "/root/$FOREMAN_PROXY-certs.tar"
```

- Foreman Proxy is running at <https://frm.infra.spdji.spgi:9090>

The full log is at /var/log/foreman-installer/katello.log

While running with custom certificate I get the subjected error:

```
oreman-installer --scenario katello --certs-server-cert "/etc/pki/tls/certs/spdji_spgi_cert.crt" --certs-server-key  
"/etc/pki/tls/certs/spdji_spgi.key" --certs-server-ca-cert "/etc/pki/tls/certs/ROOTCA-CA_spdji_spgi.crt" --certs-update-server  
--certs-update-server-ca  
2021-11-28 10:50:57 [NOTICE] [root] Loading installer configuration. This will take some time.  
2021-11-28 10:51:02 [NOTICE] [root] Running installer with log based terminal output at level NOTICE.  
2021-11-28 10:51:02 [NOTICE] [root] Use -l to set the terminal output log level to ERROR, WARN, NOTICE, INFO, or DEBUG. See  
--full-help for definitions.  
Executing: katello-certs-check -c "/etc/pki/tls/certs/spdji_spgi_cert.crt" -k "/etc/pki/tls/certs/spdji_spgi.key" -b  
"/etc/pki/tls/certs/ROOTCA-CA_spdji_spgi.crt"  
tput: No value for $TERM and no -T specified  
tput: No value for $TERM and no -T specified  
tput: No value for $TERM and no -T specified  
tput: No value for $TERM and no -T specified  
Checking server certificate encoding: [OK]
```

Checking expiration of certificate: [OK]

Checking expiration of CA bundle: [OK]

Checking if server certificate has CA:TRUE flag [OK]

Checking for private key passphrase: [OK]

Checking to see if the private key matches the certificate: [OK]

Checking CA bundle against the certificate file: [OK]

Checking CA bundle size: 2
[OK]

Checking Subject Alt Name on certificate [OK]

Checking if any Subject Alt Name on certificate matches the Subject CN
[OK]

Checking Key Usage extension on certificate for Key Encipherment [OK]

Checking for use of shortname as CN
[OK]

Validation succeeded

To install the Katello server with the custom certificates, run:

```
foreman-installer --scenario katello \  
    --certs-server-cert "/etc/pki/tls/certs/spdji_spji_cert.crt" \  
    --certs-server-key "/etc/pki/tls/certs/spdji_spji.key" \  
    --certs-server-ca-cert "/etc/pki/tls/certs/ROOTCA-CA_spdji_spji.crt"
```

To update the certificates on a currently running Katello installation, run:

```
foreman-installer --scenario katello \  
    --certs-server-cert "/etc/pki/tls/certs/spdji_spji_cert.crt" \  
    --certs-server-key "/etc/pki/tls/certs/spdji_spji.key" \  
    --certs-server-ca-cert "/etc/pki/tls/certs/ROOTCA-CA_spdji_spji.crt" \  
    --certs-update-server --certs-update-server-ca
```

To use them inside a NEW \$FOREMAN_PROXY, rerun this command with -t foreman-proxy

Marking certificate /root/ssl-build/frm.infra.spdji.spji/frm.infra.spdji.spji-apache for update

Marking certificate /root/ssl-build/frm.infra.spdji.spji/frm.infra.spdji.spji-foreman-proxy for update

Marking certificate /root/ssl-build/katello-server-ca for update

2021-11-28 10:51:16 [NOTICE] [configure] Starting system configuration.

2021-11-28 10:51:33 [NOTICE] [configure] 250 configuration steps out of 1690 steps complete.

2021-11-28 10:51:44 [NOTICE] [configure] 500 configuration steps out of 1690 steps complete.

2021-11-28 10:51:45 [NOTICE] [configure] 750 configuration steps out of 1694 steps complete.

2021-11-28 10:51:48 [NOTICE] [configure] 1000 configuration steps out of 1701 steps complete.

2021-11-28 10:51:49 [NOTICE] [configure] 1250 configuration steps out of 1702 steps complete.

2021-11-28 10:58:36 [NOTICE] [configure] 1500 configuration steps out of 1702 steps complete.

2021-11-28 10:59:31 [ERROR] [configure] /Stage[main]/Foreman::Register/Foreman_host[foreman-frm.infra.spdji.spji]: Could not evaluate: Exception SSL_connect returned=1 errno=0 state=error: certificate verify failed (self signed certificate in certificate chain) in get request to: <https://frm.infra.spdji.spji/api/v2/hosts?search=name%3D%22frm.infra.spdji.spji%22>

2021-11-28 10:59:31 [ERROR] [configure] Wrapped exception:

2021-11-28 10:59:31 [ERROR] [configure] SSL_connect returned=1 errno=0 state=error: certificate verify failed (self signed certificate in certificate chain)

2021-11-28 11:00:26 [NOTICE] [configure] System configuration has finished.

There were errors detected during install.

Please address the errors and re-run the installer to ensure the system is properly configured.
Failing to do so is likely to result in broken functionality.

The full log is at /var/log/foreman-installer/katello.log

