

Installer - Bug #34672

installer fails with "Could not open SSL root certificate file /root/.postgresql/root.crt" error.

03/24/2022 09:21 AM - Evgeni Golov

Status:	Closed	
Priority:	Normal	
Assignee:	Evgeni Golov	
Category:	Foreman modules	
Target version:		
Difficulty:		Fixed in Releases: 3.3.0
Triaged:	Yes	Found in Releases:
Bugzilla link:	2062189	Red Hat JIRA:
Pull request:	https://github.com/theforeman/puppet-candlepin/pull/217 , https://github.com/theforeman/puppet-katello/pull/448	

Description

Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=2062189

Description of problem: satellite-installer gets failed with "Could not open SSL root certificate file /root/.postgresql/root.crt"

Version-Release number of selected component (if applicable):

candlepin 4.1.11

How reproducible:

always

Steps to Reproduce:

1. Install the unconfigured(only packages) satellite
2. Generate the SSL certificate.
3. Install the external PostgreSQL database and update all the required configurations for SSL.
4. Run the installer on the satellite to integrate the external database but the command gets failed with following error

```
satellite-installer --scenario satellite --foreman-initial-admin-password --foreman-db-manage false --foreman-db-host postgres.com
--foreman-db-database foreman1db --foreman-db-username foreman1! --foreman-db-password --foreman-db-port 5432
--katello-candlepin-manage-db false --katello-candlepin-db-host postgres.com --katello-candlepin-db-name candlepin1db
--katello-candlepin-db-user candlepin1! --katello-candlepin-db-password --katello-candlepin-db-port 5432
--foreman-proxy-content-pulpcore-manage-postgresql false --foreman-proxy-content-pulpcore-postgresql-host postgres.com
--foreman-proxy-content-pulpcore-postgresql-db-name pulpcore1db --foreman-proxy-content-pulpcore-postgresql-user pulp1!
--foreman-proxy-content-pulpcore-postgresql-password --foreman-proxy-content-pulpcore-postgresql-port 5432
--foreman-db-sslmode verify-full --foreman-db-root-cert /usr/share/foreman/root.crt --katello-candlepin-db-ssl true
--katello-candlepin-db-ssl-verify true --foreman-proxy-content-pulpcore-postgresql-ssl true
```

```
2022-03-09 04:26:29 [NOTICE] [configure] 500 configuration steps out of 1443 steps complete.
```

```
2022-03-09 04:26:34 [ERROR] [configure] Execution of '/usr/share/candlepin/cpdb --create --schema-only --dbhost=postgres.com
--dbport=5432 --database=candlepin1db?ssl=true --user=candlepin1! --password=****' returned 1: ##### ERROR
#####
```

```
2022-03-09 04:26:34 [ERROR] [configure] Error running command: /usr/share/candlepin/liquibase.sh --driver=org.postgresql.Driver
--classpath=/var/lib/tomcat/webapps/candlepin/WEB-INF/lib/postgresql-42.3.2.jar:/var/lib/tomcat/webapps/candlepin/WEB-INF/classe
s/ --changeLogFile=db/changelog/changelog-create.xml --url="jdbc:postgresql://postgres.com:5432/candlepin1db?ssl=true"
--username=$DBUSERNAME --password=$DBPASSWORD --logLevel=severe migrate -Dcommunity=False
```

```
2022-03-09 04:26:34 [ERROR] [configure] Status code: 65280
```

```
2022-03-09 04:26:34 [ERROR] [configure] Command output: Liquibase update Failed: liquibase.exception.DatabaseException:
org.postgresql.util.PSQLException: Could not open SSL root certificate file /root/.postgresql/root.crt.
```

```
2022-03-09 04:26:34 [ERROR] [configure] SEVERE 3/9/22, 4:26 AM:liquibase: liquibase.exception.DatabaseException:
org.postgresql.util.PSQLException: Could not open SSL root certificate file /root/.postgresql/root.crt.
```

Actual results:

Installer gets failed with "Could not open SSL root certificate file /root/.postgresql/root.crt" file error.

Expected results:

Installer should be completed successfully.

Additional info: Didn't see this problem with candlepin 4.1.1

This leads me to this commit: <https://github.com/candlepin/candlepin/commit/5123d749532b4fd1c1a73e7039778a5529fa787a>

And thus to the upstream changes: <https://github.com/pgjdbc/pgjdbc/compare/REL42.2.2...REL42.3.2>

Quick grep for "cert" leads to <https://github.com/pgjdbc/pgjdbc/commit/cdeeaca47dc3bc6f727c79a582c9e4123099526e> and especially

<https://github.com/pgjdbc/pgjdbc/blob/cdeeaca47dc3bc6f727c79a582c9e4123099526e/pgjdbc/src/main/java/org/postgresql/ssl/LibPQFactory.java#L57-L73> which is building exactly the path that is not found here.

So, TL;DR: the postgresql module used by Candlepin changed behaviour (to be more secure) and something in the chain (installer → cpdb → ...) doesn't pass the cert paths correctly, thus triggering the fallback which doesn't exist.

The exception we're seeing is this one, btw:

<https://github.com/pgjdbc/pgjdbc/blob/REL42.3.2/pgjdbc/src/main/java/org/postgresql/ssl/LibPQFactory.java#L150>

Associated revisions

Revision a332e314 - 03/25/2022 12:27 PM - Evgeni Golov

Fixes #34672 - allow specifying the SSL CA when connecting to DB

Revision 294abc05 - 04/28/2022 12:46 PM - Evgeni Golov

Refs #34672 - allow setting the Candlepin DB CA

History

#1 - 03/24/2022 10:04 AM - The Foreman Bot

- Status changed from New to Ready For Testing
- Assignee set to Evgeni Golov
- Pull request <https://github.com/theforeman/puppet-candlepin/pull/217> added

#2 - 03/25/2022 01:01 PM - Anonymous

- Status changed from Ready For Testing to Closed

Applied in changeset [puppet-candlepin|a332e314dfcefde5b34bca0f557e4de8ccb4e4a4](https://github.com/theforeman/puppet-candlepin/pull/217).

#3 - 04/28/2022 07:26 AM - The Foreman Bot

- Pull request <https://github.com/theforeman/puppet-katello/pull/448> added

#4 - 08/16/2022 11:02 AM - Ewoud Kohl van Wijngaarden

- Subject changed from installer fails with "Could not open SSL root certificate file /root/.postgresql/root.crt" error. to installer fails with "Could not open SSL root certificate file /root/.postgresql/root.crt" error.
- Category set to Foreman modules
- Triaged changed from No to Yes
- Fixed in Releases 3.3.0 added