Applying bigsql fix for BigInsights:

1. Stop the **BigInsights - BigSQL** service in Ambari.
2. Run **db2level** (as the *bigsql* user) to determine where DB2 is installed, and what version is installed there. Validate that the informational tokens on your host match the tokens below.

[root@machine1 server]# su – bigsql
[bigsql@machine1 ~]$ db2level
DB21085I This instance or install (instance name, where applicable: "bigsql")
uses "64" bits and DB2 code release "SQL10063" with level identifier
"0704010E".
Informational tokens are "**DB2 v10.6.0.3**", "**s151125**", "**IP24010**", and Fix Pack
"**3**".
Product is installed at "**/usr/ibmpacks/bigsql/4.1/db2**".
3. Backup configuration information:
	1. db2 get dbm cfg > pre\_dbm\_cfg.out
	2. db2set –all > pre\_db2set.out
4. Download the fix from Fix Central:
	1. IM-BigInsights-BigSQL-linuxamd64\_CVE-2016-0201
5. As “**root**”, for each host in the cluster where BigSQL is installed:
	1. Unpack the special build tar.gz file into a temporary location on each host in the cluster where BigSQL is installed. (example: **/tmp/db2\_special**)
	2. Change directory to the /server directory that was unpacked from the tar ball.

e.g. cd /tmp/db2\_special/server

* 1. In your shell, export the following variable.

export SKIP\_SHAREDFS\_CHECK=YES

* 1. Execute: **./installFixPack -f level -f install**
		1. Enter the original installation directory from db2level

**(/usr/ibmpacks/bigsql/4.1/db2)**

* + 1. Choose no if you do not want to install to a new directory

Example:

[root@machine1 server]# ./installFixPack -f level -f install
Enter the full path of the base installation directory:

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/usr/ibmpacks/bigsql/4.1/db2

Do you want to choose a different installation directory for the fix pack? [yes/no]

------------------------------------------------------------------------------------
no

DBI1017I installFixPack is updating the DB2 product(s) installed in
 location /usr/ibmpacks/bigsql/4.1/db2.

DB2 installation is being initialized.

 Total number of tasks to be performed: 35
Total estimated time for all tasks to be performed: 1528 second(s)

Task #1 start
Description: Stopping DB2 Fault Monitor
Estimated time 10 second(s)
Task #1 end

Task #2 start
Description: Preparing the system
Estimated time 120 second(s)
Task #2 end

...

Task #30 start
Description: Setting DB2 library path
Estimated time 180 second(s)

Task #35 start
Description: Updating the db2ls and db2greg link

Estimated time 1 second(s)
Task #35 end

The execution completed successfully.

For more information see the DB2 installation log at
"/tmp/installFixPack.log.32492".

1. On the BigSQL head node, execute the following as the *bigsql* user.
**db2 update dbm cfg using instance\_usage bigsql**
2. Restart the BigInsights - BigSQL service through Ambari.
3. Validate the special build installation.
	1. Execute **rah “db2level”**. All hosts should show the same level.
	2. Execute **db2pd -member all -**. All the members should show up as Active.
	 Example:

bigsql@machine1 ~]$ db2pd -member all -

Database Member 2 -- Active -- Up 0 days 01:48:47 -- Date 2015-11-02-08.35.02.029161

machine3: db2pd -member 2 - ... completed ok

Database Member 1 -- Active -- Up 0 days 01:48:47 -- Date 2015-11-0208.35.02.641969

machine2: db2pd -member 1 - ... completed ok

Database Member 0 -- Active -- Up 0 days 01:48:54 -- Date 2015-11-0208.35.03.209880

machine1: db2pd -member 0 - ... completed ok

* 1. Execute **db2\_ps** to validate that all nodes are running *db2sysc* and *db2ckpwd* processes.
	2. Execute **db2pd -member all -db bigsql -**. All databases should show up as Active.
	[bigsql@machine1 ~]$ db2pd -member all -db bigsql -

Database Member 2 -- Database BIGSQL -- Active -- Up 0 days 01:48:48 -- Date 201

machine3: db2pd -member 2 -db ... completed ok

Database Member 1 -- Database BIGSQL -- Active -- Up 0 days 01:48:49 -- Date 201

machine2: db2pd -member 1 -db ... completed ok

Database Member 0 -- Database BIGSQL -- Active -- Up 0 days 01:49:05 -- Date 201

machine1: db2pd -member 0 -db ... completed ok

Check levels:

1. New levels will be:
2. Same install location
3. su - bigsql and run db2level:
	1. $ db2level
	[bigsql@bdls000 ~]$ db2level
	DB21085I This instance or install (instance name, where applicable: "bigsql")
	uses "64" bits and DB2 code release "SQL10063" with level identifier
	"0704010E".
	Informational tokens are "DB2 v10.6.0.3", "s151125", "IP24010", and
	Fix Pack "3".
	Product is installed at "/usr/ibmpacks/bigsql/4.1/db2".
4. Verify the catalog instance to ensure correct code level.
5. Verify the configuration
	1. DBM cfg
		1. With DB2 started, issue “db2pd –dbmcfg | grep –I instance\_usage”
			1. It should be set to “bigsql”
			2. If it’s not, you can update it with:
				1. db2 update dbm cfg using instance\_usage bigsql
				2. restart the instance
		2. db2 get dbm cfg > post\_dbm\_cfg.out
			1. Check svcename
		3. db2set –all > post\_dbm\_cfg.out
			1. Check db2comm and db2rshcmd