FLEXera

Upgrade SVM 7.6.1.5 with PHP7 & MariaDB 10.3.

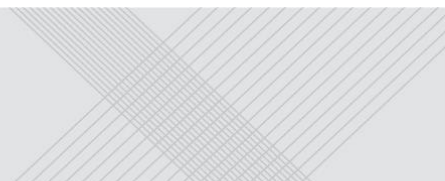# SVM 7.6.1.11 & Above.

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Version 1.3

Contents

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Upgrading SVM 7.6.1.5 To 7.6.1.11 & Above With PHP 7 & MariaDb 10.3

Backup MySQL Databases

1. mysqldump ca | gzip > ca.sql.gz
2. mysqldump ca_CstID | gzip > ca_CstID.sql.gz (Replace CstID with Customer Number)

Alternatively, to back up all databases

1. mysqldump --all-databases | gzip > complete.sql.gz

Upgrade To PHP7

1. rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
2. rpm -Uvh http://rpms.remirepo.net/enterprise/remi-release-7.rpm
3. yum install -y yum-utils
4. yum-config-manager --enable remi-php72
5. yum update -y (commit changes)

Upgrade To MariaDb 10.3

1. systemctl stop mariadb
2. yum remove mariadb-server mariadb mariadb-libs (*This will remove SVM/CSI RPM*)
3. yum clean all
4. curl -sS https://downloads.mariadb.com/MariaDB/mariadb_repo_setup | sudo bash -s -- --mariadb-server-version="mariadb-10.3"
5. yum update -y (to commit the changes to the MariaDB Repo)

Install Pre-Requisites

Complete Pre-Requisites
yum -y install curl httpd MariaDB-server MariaDB-client ntp perl-Compress-Zlib php php-gd php-ldap php-mysqlnd php-pecl-zip php-xml rpm-build policycoreutils-python haproxy yum-cron

The above command should show that many of these modules are installed. It is listed for reference.

Required Pre-Requisites
yum install -y MariaDB-Server MariaDB-client php-pecl-zip php-xml yum-cron

The following is based on 16Gb RAM and 3,500 hosts. Please consult with Flexera Support for the correct settings for your environment. There are other files that need to be modified, the requirement is the '[mysqld]' statement and the 'sql_mode' setting.

Modify /etc/my.cnf (Add the following to my.cnf *before* starting MariaDb)

```
[mysqld]
sql_mode='ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION'
default_storage_engine = InnoDB
innodb_file_per_table = 1
innodb_autoinc_lock_mode = 2
innodb_flush_method = O_DIRECT
innodb_buffer_pool_size = 2G
table_open_cache = 4500
max_heap_table_size = 32M
tmp_table_size = 32M
key_buffer_size = 150M
max_connections = 1200
open_files_limit = 7000
thread_cache_size = 130
query_cache_size = 100M
query_cache_type= ON
query_cache_limit= 512K
# innodb_force_recovery=1
innodb_purge_threads=0
```

Start & Enable MariaDb

1. systemctl enable mariadb
2. systemctl start mariadb
3. mysql_upgrade
4. systemctl restart mariadb

Create 'csi' user for MySQL
(Optional. Please modify user [csi] & password [F1exera!] if needed). This user will be in place of 'root' for access to the database for SVM.

GRANT EXECUTE, PROCESS, SELECT, SHOW DATABASES, SHOW VIEW, ALTER, CREATE, CREATE TEMPORARY TABLES, CREATE VIEW, DELETE, DROP, INDEX, INSERT, UPDATE, CREATE USER, FILE, LOCK TABLES, RELOAD, SUPER ON *.* TO 'csi'@'%' IDENTIFIED BY 'F1exera!' WITH GRANT OPTION;

GRANT USAGE ON *.* TO 'csi'@'%';

FLUSH PRIVILEGES;

Re-Install SVM

1. Download latest RPM from https://ca.secunia.com/download and copy to server
2. rpm -i csi-7.9.1.x-x.el7.x86_64.php7.rpm, (where 'x' represents the version being installed

Post Installation

Once the upgrade is complete you are required to run */usr/local/Secunia/csi/install/installationProcess.sh*.

Please ensure you answer [Yes] to the following questions, otherwise key files will not be updated. For all other setting you can accept the default/previous answers, unless changes need to be made.

Would you like to go through the configuration process where you can review/edit the settings? (Y/N)

Do you wish to modify database configuration - my.cnf? (Y/N) [N]:

Update Vuln Track

1. 'mysql' or 'mysql -u root -p'
2. drop database replication_metadata;
3. drop database vuln_track;
4. exit

5. cd /usr/local/Secunia/csi/cronjobs
6. php crontab_importer.php

Once the above is complete, reboot the server to complete the installation

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