Cluster Management: How do I purge/expire my MySQL binary logs?

I have unfeasibly large mysql .bin logs filling up my /var partition! How do I free up the space they are taking up? Can I prevent the build up in future?

The problem may show up in some cases as something like:

du -sh /var/lib/mysql/*

92K /var/lib/mysql/aria_log.00000001
4.0K /var/lib/mysql/arria_log_control
6.7M /var/lib/mysql/cmdaemon
9.3G /var/lib/mysql/cmdaemon_mon
13G /var/lib/mysql/ibdata1
5.0M /var/lib/mysql/ib_logfile0
5.0M /var/lib/mysql/ib_logfile1
4.0K /var/lib/mysql/master.info
1008K /var/lib/mysql/mysql
3.1M /var/lib/mysql/mysql-bin.000001
7.7M /var/lib/mysql/mysql-bin.000002
14M /var/lib/mysql/mysql-bin.000003
3.9M /var/lib/mysql/mysql-bin.000004
1.2M /var/lib/mysql/mysql-bin.000005
[...]

12K /var/lib/mysql/mysql-bin.000018
1.9M /var/lib/mysql/mysql-bin.000019
2.6M /var/lib/mysql/mysql-bin.000020
1.1G /var/lib/mysql/mysql-bin.000021
1.1G /var/lib/mysql/mysql-bin.000022
1.1G /var/lib/mysql/mysql-bin.000023
1.1G /var/lib/mysql/mysql-bin.000024
1.1G /var/lib/mysql/mysql-bin.000025
1.1G /var/lib/mysql/mysql-bin.000026
1.1G /var/lib/mysql/mysql-bin.000027
1.1G /var/lib/mysql/mysql-bin.000028
1.1G /var/lib/mysql/mysql-bin.000029
1.1G /var/lib/mysql/mysql-bin.000030

...

Cleaning up

(tested on Bright 7.0)

The binary logs can be listed and deleted from the mysql command line.

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First log into mysql as root by running this command on the head node:

```
# mysql -u root -p
```

To show which files are being used to store binary logs, you can run this command on the mysql command line:

```
> SHOW BINARY LOGS;
```

To delete (purge) old binary logs, you can use the "PURGE BINARY LOGS" statement. The following command would, for example, purge the logs from last week:

```
> PURGE BINARY LOGS BEFORE DATE(NOW() - INTERVAL 7 DAY) + INTERVAL 0 SECOND;
```

The MySQL documentation covers this usage in further detail.

Expiring

In addition to purging the logs, it is possible to configure mysql to purge the files after a given number of days, as described in
https://dev.mysql.com/doc/refman/5.7/en/purge-binary-logs.html

For example, if you want the binary logs to expire after 7 days, add the following line to /etc/my.cnf:

```
expire_logs_days=7
```

You will also need to log into mysql as root and run this command (if you don't want to restart MySQL) to make the new setting active:

```
> SET GLOBAL expire_logs_days = 7;
```

In the same way, you can also configure my.conf to set the maximum binary log size, for example:

```
max_binlog_size = 100M
```

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> SET GLOBAL max_binlog_size = 100M;

Log rotation can then tuned to remove logs when there are too many logs. The details of how to do that depends on the operating system and database version.

Tip:

If you don't have the mysql root password, you can reset it as described in

http://kb.brightcomputing.com/faq/index.php?action=artikel&id=321

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