1. Log data purge strategy or practices for api gateway servers

The logs are maintained outside of axway installation and the symbolic links are created and referred in install dir.

axwayadm@DEV03[apigateway] $ pwd

/apps/axway/axway-7.3.1/apigateway

lrwxrwxrwx 1 axwayadm axwayadm 19 Sep 7 2015 groups -> /apps/axway/servers

drwxr-xr-x 6 axwayadm axwayadm 4096 May 30 2017 Linux.x86\_64

lrwxrwxrwx 1 axwayadm axwayadm 33 Sep 7 2015 logs -> /apps/axway/logs/nodemanager/logs

drwxr-x--- 2 axwayadm axwayadm 4096 May 30 2017 META-INF

lrwxrwxrwx 1 axwayadm axwayadm 12 May 31 2017 platform -> Linux.x86\_64

drwxr-xr-x 7 axwayadm axwayadm 4096 Mar 1 2016 posix

drwxr-xr-x 12 axwayadm axwayadm 4096 Mar 1 2016 samples

drwxr-xr-x 5 axwayadm axwayadm 4096 Mar 1 2016 skel

drwxr-xr-x 6 axwayadm axwayadm 4096 Mar 1 2016 system

lrwxrwxrwx 1 axwayadm axwayadm 34 Sep 7 2015 trace -> /apps/axway/logs/nodemanager/trace

Logs for each instance will be under the following path:

/app/axway/logs/<instance-name>/log

/app/axway/logs/<instance-name>/trace

/app/axway/logs/NodeManager/logs

/app/axway/logs/NodeManager/trace

It helps to purge or backup logs and better management.

There is not backup of housekeeping required if we use log rotation.

Log is rotated (roll over daily) instead of overwriting the previous logs. In API Gateway, the log rotation by daily is by default and max files and max log file size. Memory allocation should be done based on this property at each instance level

1. Practices for continuous monitoring of api gateway servers

Custom monitoring done to scan trace file (\*.trc) at real-time for the error pattern and raise alert/incident to Production support.

Few common patterns

* connection timed out
* ERROR ADMIN NODE MANAGER
* can't create socket: Address family not supported by protocol
* java.lang.OutOfMemoryError: GC overhead limit exceed
* java.lang.OutOfMemoryError: Java heap space
* java.lang.OutOfMemoryError: PermGen space
* SSL Certificate Expired
* java exception
* Failed in calling policy shortcut
* com.vordel.vary.VariantObject
* Failed in calling policy shortcut
* Message attribute content check failed
* Transaction timeout
* May not be enough replicas present to handle consistency level
* Schema check failed for store
* KPS Schema: Unexpected exception for get query

1. Backup and restore practice or approach for api gateway servers

Folder /apps/axway/servers (/apps/axway/axway-7.3.1/apigateway/groups

) stores the group topology information.

lrwxrwxrwx 1 axwayadm axwayadm 19 Sep 7 2015 groups -> /apps/axway/servers

drwxr-xr-x 6 axwayadm axwayadm 4096 May 30 2017 Linux.x86\_64

lrwxrwxrwx 1 axwayadm axwayadm 33 Sep 7 2015 logs -> /apps/axway/logs/nodemanager/logs

drwxr-x--- 2 axwayadm axwayadm 4096 May 30 2017 META-INF

lrwxrwxrwx 1 axwayadm axwayadm 12 May 31 2017 platform -> Linux.x86\_64

drwxr-xr-x 7 axwayadm axwayadm 4096 Mar 1 2016 posix

drwxr-xr-x 12 axwayadm axwayadm 4096 Mar 1 2016 samples

drwxr-xr-x 5 axwayadm axwayadm 4096 Mar 1 2016 skel

drwxr-xr-x 6 axwayadm axwayadm 4096 Mar 1 2016 system

lrwxrwxrwx 1 axwayadm axwayadm 34 Sep 7 2015 trace -> /apps/axway/logs/nodemanager/trace

Backup and restore done on /apps/axway/ \*

Backup and restore are done using script and it uses below command.

**BackUp:**

cd /apps/axway/backup/

tar cvf API\_GATEWAY\_BACKUP\_YYYY-MM-DD.tar /apps/axway/axway-7.3.1 /apps/axway/servers

**Restore:**

cd /apps/axway/backup/

tar -xvf API\_GATEWAY\_BACKUP\_YYYY-MM-DD.tar -C /apps/axway/