**FSM – File System Management**

The purpose of this module is to maintain the file system of a system. [ Unix/Linux ]

It maintains the system in two ways ->

1. Archive the files.
2. Delete the files.

Command to run the script

perl FSM.pl –conf=FileSystemManagement.conf

Where FileSystemManagement.conf contains the rules on which FSM.pl maintains the file system.

Configuration file structure,

<configuration>

<archive>

<directory name='FULL PATH OF DIR' repeatforallsubdir=' SEARCH ALL SUB DIR AND APPLY SAME RULE' exclude='DIR TO SKIP WHEN SEARCHING FOR SUB DIR (COMMA SEPARATED)' archive='TO ARCHIVE OR JUST TO MOVE THE FILES' pattern='REG EXP FOR FINDING FILES' archiveolderthandays='FILES OLDER THAN THESE MANY DAYS WILL BE ARCHIVED ' tar='1' archivepath='PATH TO ARCHIVE TO' atoncearchive='GROUPING THESE MANY FILES TOGETHER' archivefilename=’NAME OF ARCHIVE’ archiveifsizemorethan=’UPPER LIMIT OF SIZE OF THIS DIR ’/>

</archive>

<delete>

<directory name='FULL PATH OF DIR’ pattern='REG EXP FOR FINDING FILES' deleteolderthandays='FILES OLDER THAN THESE MANY DAYS WILL BE DELETED' deleteifsizemorethan=’UPPER LIMIT OF SIZE OF THIS DIR’ repeatforallsubdir=' SEARCH ALL SUB DIR AND APPLY SAME RULE' exclude='DIR TO SKIP WHEN SEARCHING FOR SUB DIR (COMMA SEPARATED)' />

</delete>

</configuration>

Options

Archiving Directory ->

Name : Full Path of Dir has to be mentioned , Case sensitive

RepeatForAllSubDir: value it can take 1/0 or can be left out completely. This option enables FSM to search for sub dir inside named dir and to use named dir configuration on those subdirs.

Exclude: Full path of the dir that are to be excluded from the search of RepeatForAllSubDir. This is useful in case when a specific subdir has to have separate rule of archiving, can be specified as complete separate configuration. More than one subdir can be specified separated by comma.

Archive: value it can take 1/0 – 0 means FSM will only move the files to specified dir.

Pattern: reg exp to search correct files to work on.

ArchiveOlderThanDays: value it can take : number , older than x day files will be archived.

Tar:

ArchivePath: Must option, when archiving a dir. Full path has to be mentioned.

atOnceArchive: Name explains all, how many files are to be archived at once.

ArchiveFileName: Prefix name of the archive tar ball created. Date and count will be added automatically.

ArchiveIfSizeMoreThan: Upper limit of size of the dir to be maintained, if more than oldest files will be archived.

DeleteAfterArchive : if you want the archived files to be deleted, if not enabled it will always archive the files that are already archive before.

Delete options ->