**LIST MATCHING DOCUMENTATION**

**Scripts**

hostInfoReports.ksh: generates 3 different reports that contain all the nodes’ information

* hardwareReport: contains name, date, os, kernel, model, cpu, zonetype

and other physical attributes.

* softwareReport: contains Uptime software, NetBackup software
* zonelistReport: contains name, date, zonelist

listMatching.ksh: takes in list of nodes from each tool (BoKS, NetBackup, etc.) to generate a MasterTable (1)

listMatchingReports.ksh: generates 6 different reports:

* Yes\_NA\_Report.txt: A text file that contains the number of 'YES's and 'N/A's/total for each source with percentages, respectively.
* Extra\_Hosts\_Report.txt: A text file that contains all the lists of extra hosts that don’t supposed to be in the source but end up appearing in the MasterTable.
* Expired\_Exceptions\_Report.txt: A text file that contains all the expired exceptions as of the date the script runs.
* Exceptions\_By\_Date\_Report.txt: A text file that contains all the exceptions sorted by date.
* Exceptions\_By\_Hostname\_Report.txt: A text file that contains all the exceptions sorted by host name.
* Missing\_Hosts\_Report.txt: A text file that contains all the missing hosts that aren't in any sources but are in the ExceptionFile (2)

convert2HTML.ksh: using information from the Master (3) with no header and the MasterTable itself to convert MasterTable into MasterTable.html in order to be deployed on a web server.

extractnodes-for-listMatching.ksh: extract registered nodes out of a central administrative tool (NetBackup, BoKS, etc.) from each applicable node.

Example output: netbackup- psx02backup.list

extractnodes\_syscheck-for-listMatching.ksh: similar to extractnodes-for-listMatching.ksh but only for Syscheck.

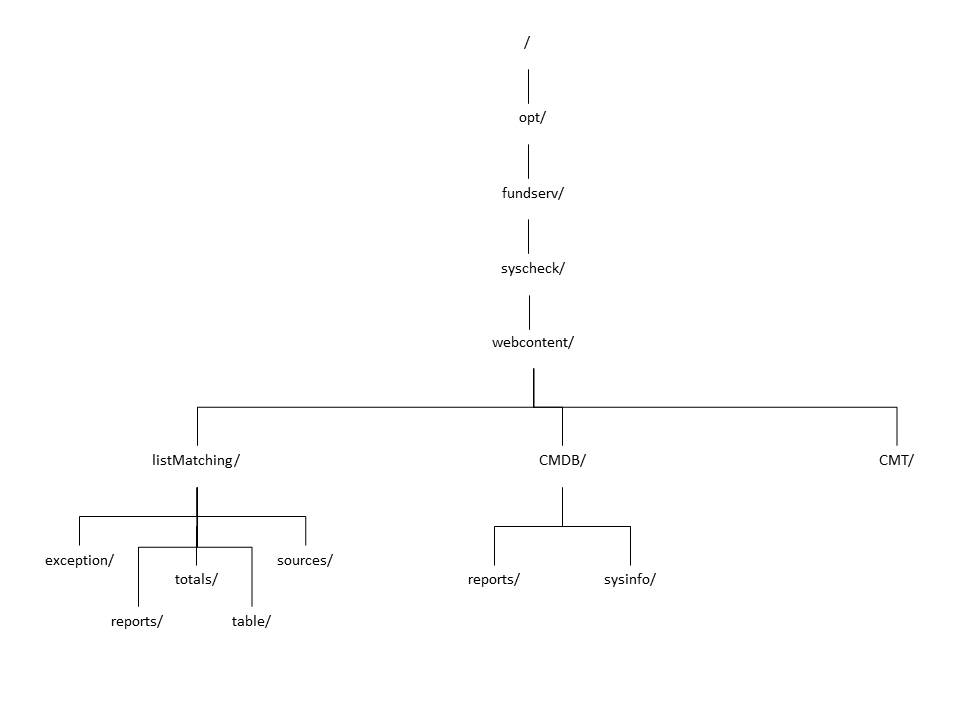
Example output: syscheck-psa03mgmt.list

catSources.ksh: concatenates all lists of produced by the extractnodes-for-listmatching.ksh from a respective tool into a final list of registered nodes for that tool.

Example output: NETBACKUP.list

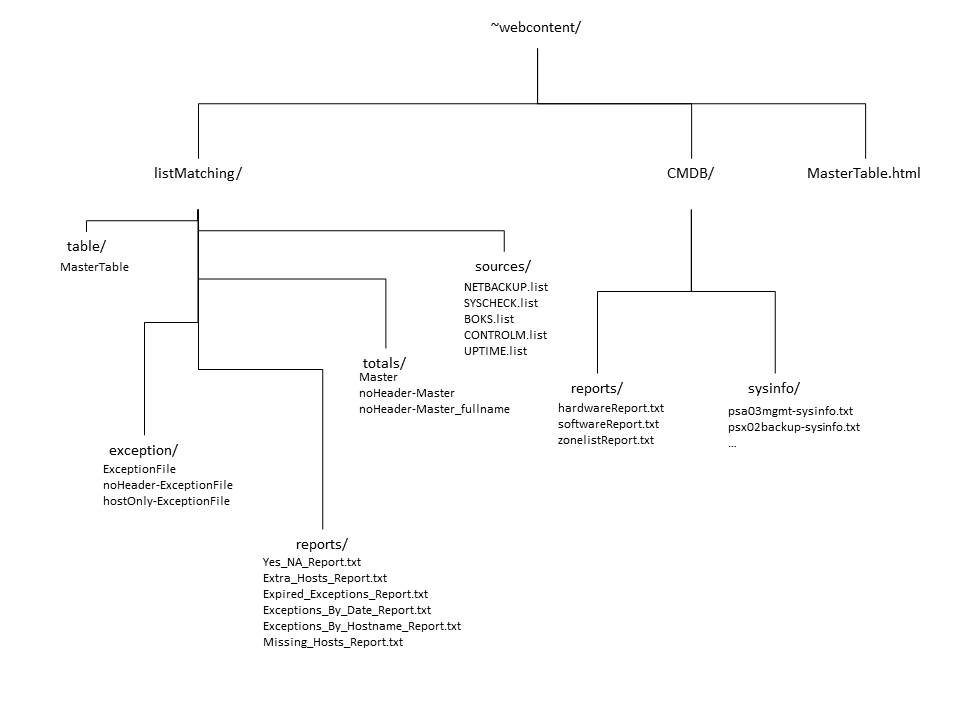
vx.ksh: generates vxdisk\_list\_info.txt that containing all the information of a physical disk and other relevant information if the host has emcpower installed.

**Folder Structure**

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**Location of files**

\*Since nothing is currently in CMT/, we’ll leave it out for now (Mar 6)

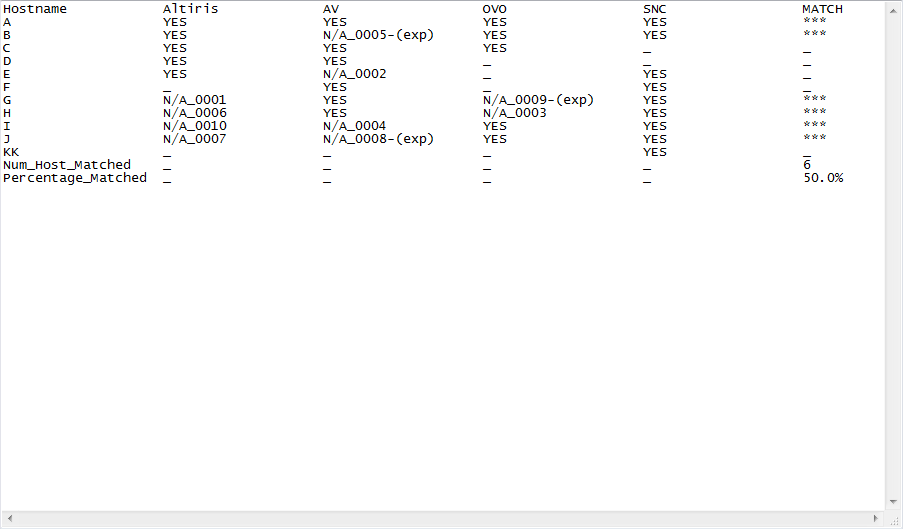
****

**Procedures**

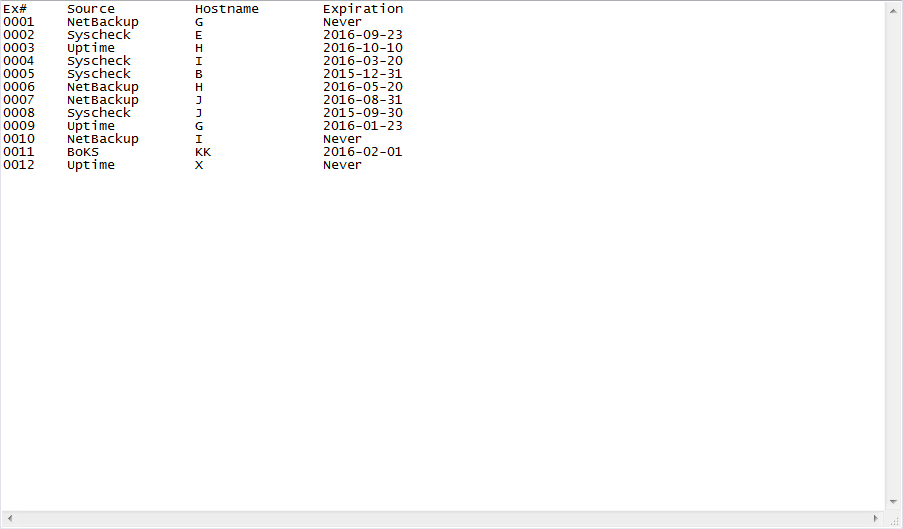
1. Collect all sources’ lists (besides Syscheck) of nodes (extractnodes-for-listMatching.ksh and catSources.ksh)
2. Collect list of nodes from Syscheck (extractnodes\_syscheck-for-listMatching.ksh)
3. Generate a Master and a MasterTable (listMatching.ksh)
4. Generate 6 general reports (listMatchingReports.ksh)
5. Generate host-related reports (hostInfoReports.ksh)
6. Convert MasterTable to MasterTable.html (convert2HTML.ksh)

**Terminology**

1. MasterTable: a table that contains all the nodes and which nodes exist in which tool (Uptime, BoKS, NetBackup, Syscheck, Control-M)

**Example:

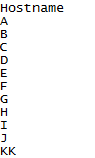
1. ExceptionFile: a table that contains all the exceptions and their respective exception ids, tools (BoKS, NetBackup, etc.), nodes’ names, and expiration status.

Example:

1. Master

The first column of MasterTable that contains all the nodes registered in all the tools.

Example:



1. vxdisk\_list\_info.txt

##### usb02core SunOS 5.10 Generic\_150400-16 sun4v sparc SPARC T4-1 #####

Thu 17-Mar-2016 00:05

##### one-line summary for all disk access records known to the system #####

emc\_clariion0\_306 auto:cdsdisk fimdg01to fimdg online

emc\_clariion1\_406 auto:cdsdisk fimdg01mk fimdg online

##### detailed information on disk emc\_clariion0\_306 #####

Device: emc\_clariion0\_306

devicetag: emc\_clariion0\_306

type: auto

hostid: usb02core

disk: name=fimdg01to id=1434640673.17.usa02core

group: name=fimdg id=1414184598.11.usa02core

info: format=cdsdisk,privoffset=256,pubslice=2,privslice=2

flags: online ready private autoconfig autoimport imported

pubpaths: block=/dev/vx/dmp/emc\_clariion0\_306s2 char=/dev/vx/rdmp/emc\_clariion0\_306s2

guid: {307411ee-15cd-11e5-a205-0010e03b039e}

udid: DGC%5FVRAID%5FAPM00145237257%5F600601602DB036004DF7E46CC515E511

site: -

version: 3.1

iosize: min=512 (bytes) max=2048 (blocks)

public: slice=2 offset=65792 len=1050574592 disk\_offset=0

private: slice=2 offset=256 len=65536 disk\_offset=0

update: time=1445107983 seqno=0.26

ssb: actual\_seqno=0.1

headers: 0 240

configs: count=1 len=48144

logs: count=1 len=7296

Defined regions:

config priv 000048-000239[000192]: copy=01 offset=000000 enabled

config priv 000256-048207[047952]: copy=01 offset=000192 enabled

log priv 048208-055503[007296]: copy=01 offset=000000 enabled

lockrgn priv 055504-055647[000144]: part=00 offset=000000

Multipathing information:

numpaths: 4

c9t5006016036E00B9Ed30s2 state=enabled type=primary

c9t5006016836E00B9Ed30s2 state=enabled type=secondary

c6t5006016936E00B9Ed30s2 state=enabled type=secondary

c6t5006016136E00B9Ed30s2 state=enabled type=primary

##### detailed information on disk emc\_clariion1\_406 #####

Device: emc\_clariion1\_406

devicetag: emc\_clariion1\_406

type: auto

hostid: usb02core

disk: name=fimdg01mk id=1434640665.15.usa02core

group: name=fimdg id=1414184598.11.usa02core

info: format=cdsdisk,privoffset=256,pubslice=2,privslice=2

flags: online ready private autoconfig autoimport imported

pubpaths: block=/dev/vx/dmp/emc\_clariion1\_406s2 char=/dev/vx/rdmp/emc\_clariion1\_406s2

guid: {2bcf64f4-15cd-11e5-a205-0010e03b039e}

udid: DGC%5FVRAID%5FAPM00145237258%5F600601600F90320092772CCDC415E511

site: -

version: 3.1

iosize: min=512 (bytes) max=2048 (blocks)

public: slice=2 offset=65792 len=1050574592 disk\_offset=0

private: slice=2 offset=256 len=65536 disk\_offset=0

update: time=1445053881 seqno=0.18

ssb: actual\_seqno=0.3

headers: 0 240

configs: count=1 len=48144

logs: count=1 len=7296

Defined regions:

config priv 000048-000239[000192]: copy=01 offset=000000 enabled

config priv 000256-048207[047952]: copy=01 offset=000192 enabled

log priv 048208-055503[007296]: copy=01 offset=000000 enabled

lockrgn priv 055504-055647[000144]: part=00 offset=000000

Multipathing information:

numpaths: 4

c6t5006016136E00BB3d40s2 state=enabled type=primary

c6t5006016936E00BB3d40s2 state=enabled type=secondary

c9t5006016036E00BB3d40s2 state=enabled type=primary

c9t5006016836E00BB3d40s2 state=enabled type=secondary

Output from usb02core:./vx.ksh at Thu 17-Mar-2016 00:05 (cwd=/opt/fundserv/syscheck/common-bin)

**Notes:**

PIKT wasn’t included in this list of tools since their it doesn’t have any central server to extract nodes from.