

Monitoring @ MetaArchive

Monitor What ?

Network / Caches

Cache up/down

Disk filling up / going bad

Communication: Firewalls / SSL errors

Correct Configuration

Content / Archival Units

Do we have what we think we have ?

Archival unit

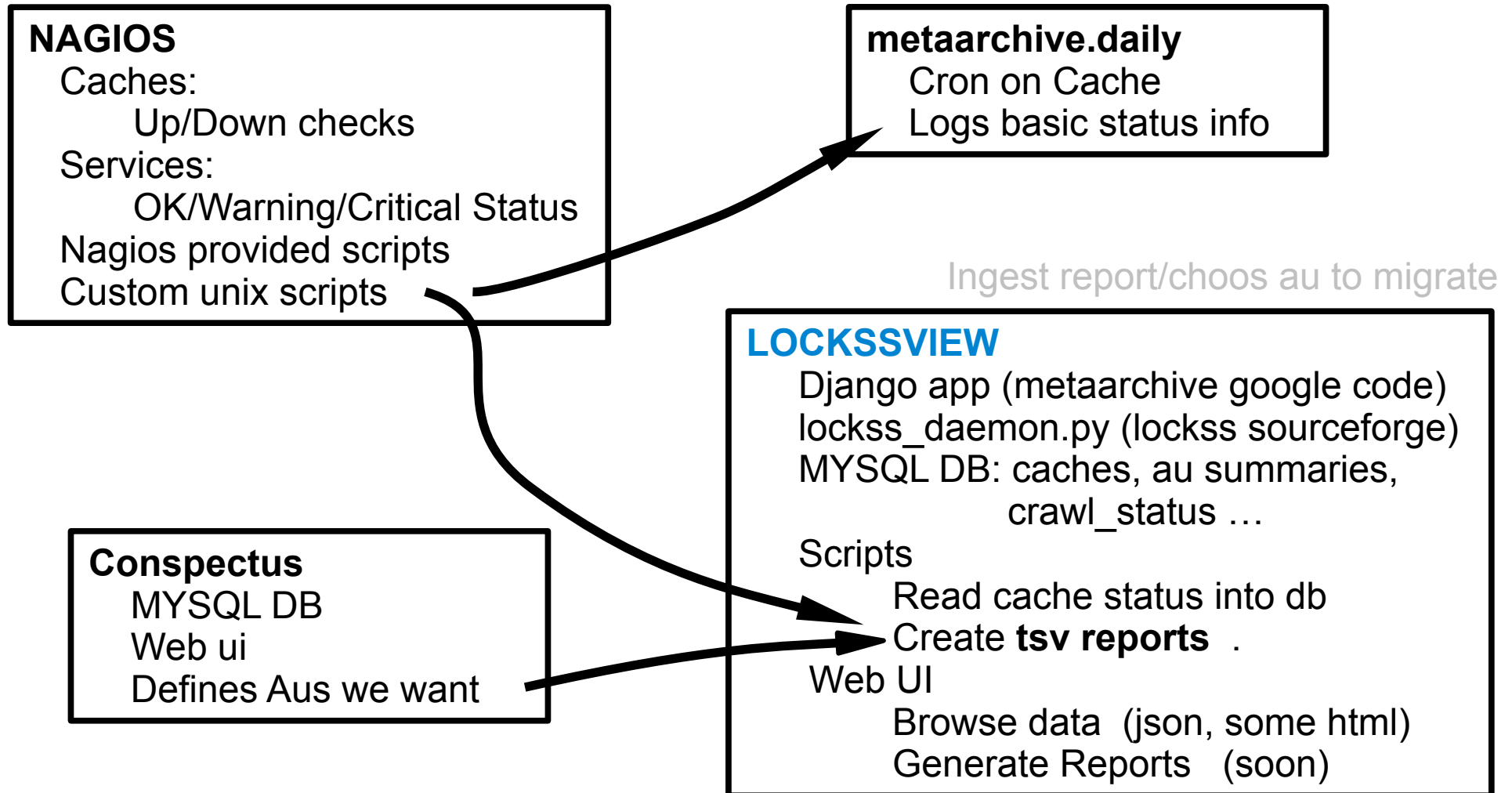
replication

agreement

Crawl success/ frequency

New/changed content discovery

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metaarchive.daily
Cron on Cache
Logs basic status info

<http://metaarchive3.lib.auburn.edu:8081/log/metaarchive/status.txt>

```
Date 1350464524 10/17/12 04:02:04
Hostname metaarchive3.lib.auburn.edu
StatusVersion 20120511
PublicKeyStore a7bd7e45155a5f9bb1ef69e3c167d99c /etc/lockss/keys/pub-keystore.jceks
HostJCEKS 86b4c8d70365a723aa29d6de3d1eb548 /etc/lockss/keys/metaarchive3.lib.auburn.edu.jceks
HostPASS 276ac0a76cc339ae721244ceb31192fa /etc/lockss/keys/metaarchive3.lib.auburn.edu.pass
RaidFailure 0
RepoFile fb2f700411a4db87fcf703d5635afe30 /etc/yum.repos.d/lockss.repo
lockss-daemon-1.57.1-1
```

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NAGIOS

Caches:

Up/Down checks

Services:

OK/Warning/Critical Status

DNS

IOException

LCAP

RAID except

SSL-config

SSL-except

URL-lockss

VERSION

get auid list

get crawlstatus

privkey

Pubkeys

yumrepos

Service Status Details For Host 'is-fe'

Host	Service	Status	Last Check	Duration	Attempt	Status Information
is-fe	DNS	OK	10-15-2012 16:22:50	139d 11h 7m 17s	1/3	DNS OK: 0.009 seconds respon
	IOException	OK	10-16-2012 16:27:13	125d 16h 27m 58s	1/3	OK #IOExceptions=0 since Tue,
	LCAP	OK	10-15-2012 16:31:36	125d 16h 22m 51s	1/3	RESULT 9729/tcp open unknow
	RAID except	OK	10-16-2012 16:20:24	106d 15h 14m 41s	1/3	OK RaidFailure 0
	SSL-config	OK	10-15-2012 09:15:31	85d 22h 19m 34s	1/3	HTTP OK: HTTP/1.1 200 OK - 8
	SSL-except	CRITICAL	10-17-2012 06:07:01	5d 21h 28m 4s	71/100000000	CRITICAL: ssl-errors for unt loc
	URL-lockss	OK	10-15-2012 16:18:34	137d 18h 28m 58s	1/3	HTTP OK: HTTP/1.1 200 OK - 8
	VERSION	OK	10-16-2012 10:29:53	6d 21h 5m 12s	1/3	HTTP OK: HTTP/1.1 200 OK - 525 bytes in 0.098 second response time
	get auid list	OK	10-17-2012 06:31:13	27d 1h 5m 0s	1/3	upd_lockss_auids-is-fe.log
	get crawlstatus	OK	10-16-2012 13:23:46	11d 18h 11m 19s	1/3	OK
	privkey	OK	10-16-2012 09:35:34	53d 21h 59m 31s	1/3	OK jceks:OK - pass:OK
	pubkeys	CRITICAL	10-16-2012 11:24:22	6d 20h 10m 43s	3/3	CRITICAL bad md5sum
	yumrepos	OK	10-16-2012 16:20:31	106d 15h 14m 34s	1/3	OK as expected

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LOCKSSVIEW

Scripts

Read cache status into db
Create **tsv reports** .

scripts.py

available commands:

caches

cachestatus

cleandb

crawlstarter

report_aucachesummary

report_auprofile

report_urlprofile

report_aubestcopy

watchcrawls

dns, port, network

status data → **db / dump data**

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Usage: report_auprofile [options] [AU_ID|@AU_ID_list]...

Options:

- d, --dryrun dry run [none]
- c CONFIG, --config=CONFIG
 Configuration file [none]
- l LOGLEVEL, --loglevel=LOGLEVEL
 set loglevel level [20]
- A, --all work on all known archival units [none]
- P **AUIDPREFIX**, --auidprefix=AUIDPREFIX
 archival unit prefix to match against known auids
 [none]
- S **HOST:PORT**, --server=HOST:PORT
 LOCKSS cache with port, may give multiple
- reportheaders=REPORTHEADERS
 Available headers: agree avg,agree
 max,agree min,auid,caches,diskMB avg,diskMB max,diskMB
 min,diskMB sum,lowrepl,lowreplserver,missingauinfo,nLo
 wAgree,nausummary,repl,replserver,reportDate
 max,reportDate min,sizeMB avg,sizeMB max,sizeMB
 min,sizeMB sum
- explainheaders explain report headers [False]
- agreement**=AGREEMENT
 minimum acceptable agreement [95.0]
- problemsonly** restrict listing to troubled archival units [False]
- replserver**=REPLSERVER
 mark as error archival units those with less
 replications on given servers [6]
- repl**=REPL mark as error archival units those with less total
 known replications [6]

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LOCKSSVIEW report + NAGIOS script

2012-10-17 19:19

```
# troubled crawls for edu.louisville
# reportDate: when the status information was pulled from MetaArchive cache
# startTime: when the crawl started
#
# reportDate  startTime      status name
#   plugin
#   baseUrl
12-10-17 16:25:10    2012-10-16 03:02:20    Can't fetch permission page    unt
    edu.louisville.Afamoh
    http://digital.library.louisville.edu/harvest/OralHistories/AFAMOH
2012-10-17 16:25:21    2012-10-16 07:45:41    Can't fetch permission page    gt-fe
    gt1-ma-cache.library.gatech.edu edu.louisville.Afamoh
    http://digital.library.louisville.edu/harvest/OralHistories/AFAMOH
```

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Web UI

Mostly json

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Web UI

Mostly json

The beginning of a data browser

The screenshot shows a Mozilla Firefox browser window with the address bar at localhost:8080. The page title is 'Page not found at /content/'. The browser's bookmark bar includes 'often', 'mail', 'local', 'ma', 'ma-plugin', 'ma staff', 'nagios', 'rt', 'ma-contact', 'lview', and 'webtools'. The main content area is divided into four sections:

- menu**: [reports](#), ... more
- networks**:
 - production
 - test
 - kaputt
 - incoming
- production network**: A table with columns 'name', 'ui', and '#AuIds'.

name	ui	#AuIds
aub-cap	metaarchive.lib.auburn.edu	422
vt-cap	metaarchive2.lib.vt.edu	658
unt	metaarchive.library.unt.edu	951
sc-fe	metaarchive.tcl.sc.edu	35
gt-fe	gt1-ma-cache.library.gatech.edu	429
bc	etdsafe.bc.edu	14
is-fe	tbr7.indstate.edu	106
osu-erack	pontus.library.oregonstate.edu	478
hbcu-erack	metaarchive.auctr.edu	35
psu-erack	metaarchive.libraries.psu.edu	400
cbuc	rovira.cesca.cat	122
fsl-erack	metaarchive1.folger.edu	367
lou-eracks	meta-archive4.library.louisville.edu	641
rice-eracks	metaarchive-er.rice.edu	454
gt-dell	gt2-ma-cache.library.gatech.edu	4
aub-dell	metaarchive3.lib.auburn.edu	1
bc-ibm	kaiser05.bc.edu	314
vt-eracks	metaarchive4.lib.vt.edu	814
- is-fe cache**: 106 archival units
tbr7.indstate.edu
@nagios
production network
soon respository space
or later comm peer status

The bottom of the browser window shows a search bar with 'Find: 11' and navigation buttons: '< Previous', 'Next >', 'Highlight all', and 'Match case'.

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LOCKSSVIEW

Web UI

Mostly icons

The b

reportDate	agreement online diskUsageMB	status	id
2012-09-29T19:04:32+00:00	80.51	2997.9	80.51% Agreement 141
2012-02-17T23:53:51+00:00	78.18	21565.6	78.18% Agreement 1719
2012-02-17T23:54:50+00:00	86.13	21760.5	86.13% Agreement 1722
2012-02-18T00:09:31+00:00	85.14	21901.9	85.14% Agreement 1771
2012-02-18T00:14:46+00:00	87.43	19614.4	87.43% Agreement 1788
2012-02-18T00:16:45+00:00	75.11	21794.1	75.11% Agreement 1796
2012-09-29T19:12:48+00:00	87.13	18134.9	87.13% Agreement 2336
2012-09-29T19:14:03+00:00	84.34	17905.3	84.34% Agreement 2337
2012-09-29T19:14:42+00:00	83.14	18141.9	83.14% Agreement 2338
2012-09-29T19:15:54+00:00	84.11	18087.1	84.11% Agreement 2340
2012-09-29T19:17:34+00:00	83.12	5147.8	83.12% Agreement 2341
2012-02-27T15:36:08+00:00	73.27	9499.8	73.27% Agreement 2446
2012-02-17T23:41:18+00:00	66.96	8812.4	66.96% Agreement 2448
2012-02-17T23:42:01+00:00	89.43	1384.8	89.43% Agreement 2453
2012-02-17T23:42:18+00:00	82.5	6915.7	82.50% Agreement 2455
2012-02-17T23:42:25+00:00	77.04	21501.3	77.04% Agreement 2456
2012-02-17T23:44:09+00:00	81.83	15596.4	81.83% Agreement 2477
2012-02-17T23:44:21+00:00	87.99	178.6	87.99% Agreement 2478
2012-10-09T03:01:41+00:00	87.99	294.1	87.99% Agreement 2482
2012-02-17T23:38:13+00:00	9.35	651.2	9.35% Agreement 2501

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LOCKSSVIEW

Web UI

Most
The

PLN ... - Mozilla Firefox

Page not found at /content/

localhost:8080/content

often mail local ma ma-plugin ma staff nagios rt ma-contact lview webtools

menu

[home](#)
... more

Master Au Ids

<< ... total: 1068 ... >>

repl	plugin,extraParams,baseUrl	DirName
7	edu.vt.library.genericDirToAU http://scholar.lib.vt.edu/MetaArchive_Ingest/416	DirName~Born_Digital_Files
7	edu.vt.library.genericDirToAU http://scholar.lib.vt.edu/MetaArchive_Ingest/416	DirName~Born_Physical_Files
7	edu.vt.library.genericDirToAU http://scholar.lib.vt.edu/MetaArchive_Ingest/416	DirName~Edited_Images
7	edu.vt.library.genericDirToAU http://scholar.lib.vt.edu/MetaArchive_Ingest/416	DirName~Images
14	edu.auburn.DiscoverAuburn http://fortissimo.lib.auburn.edu:82/da/	year~2007
14	edu.auburn.DiscoverAuburn http://fortissimo.lib.auburn.edu:82/da/	year~2008
14	edu.auburn.DiscoverAuburn http://fortissimo.lib.auburn.edu:82/da/	year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~01,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~02,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~03,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~04,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~05,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~06,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~07,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~08,year~2009
13	edu.vt.library.monthlytheses http://scholar.lib.vt.edu/theses/	month~09,year~2009

Find: 11 < Previous Next > Highlight all Match case

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Next Steps

Parameterize reports in lockssview ui
Speed

Integrate status reports with conspectus tool

More / better reports
Define based on use cases that arise
CommPeer Data