

# NG | Screener Administration

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## Summary

- Appliance Administration
- Appliance Services
- Management Center
- NG|Storage Administration
- Troubleshooting



# Appliance Administration

## Network Configuration

- Needs to be done at install
  - VM deployment
  - Install on hardware
- Use of DHCP configuration for labs
  - Not common on client side → use of static IPs
- Need of command line network configuration knowledge



# Appliance Administration

## Network Configuration

- Need of root privileges
- Network configuration files
  - Interfaces configuration
    - `/etc/sysconfig/network-scripts/ifcfg-*`
  - Hostname and Default Gateway
    - `/etc/sysconfig/network`
  - DNS
    - `/etc/resolv.conf`



# Appliance Administration

## Interface Configuration

- `vim /etc/sysconfig/network-scripts/ifcfg-{NAME_OF_INTERFACE}`
- Important parameters (minimum set)
  - `IPADDR=<STATIC_IP>`
  - `NETMASK=<NETMASK>`
  - `ONBOOT=yes` (To bring interface up on boot)
  - `BOOTPROTO=[none|dhcp]` (dhcp only for testing)
  - `DEVICE=<INTERFACE_NAME>`



# Appliance Administration

## Hostname and Gateway configuration

- `vim /etc/sysconfig/network`
- Important parameters
  - `HOSTNAME=<MACHINE_HOSTNAME>`
  - `GATEWAY=<IP_OF_DEFAULT_GATEWAY>`



# Appliance Administration

## DNS Configuration

- `vim /etc/resolv.conf`
- Important parameters
  - `search <SEARCH_DOMAIN>` (optional)
  - `nameserver <IP_OF_DNS>` (write dns in order of querying)



# Appliance Administration

## Network Checks

- To apply settings, restart network service
  - `systemctl restart network`
- Check if service restarted
  - `systemctl status network`
- Network checks (from appliance)
  - `ping <IP_OF_DEFAULT_GATEWAY>`
  - `ping <IP_OF_DNS>`
  - `ping <FQN_OF_ACCESSIBLE_SERVER>` (if possible)
- If firewall opened, appliance should be accessible from the network





# Appliance Administration

## Sanity Check

- Sanity checks script available
- In `/usr/local/ng-screener/tools/sanity/`
  - `software-check.py` → Check of software processes and parameters for ng-screener to be able to run properly
  - `system-check.py` → Linux system check to be prepared for ng-screener install
  - `sanity-check.py` → Combine both software and system checks
- Python scripts
  - Should be called with `python script_name.py`

```
Centos Version Check: OK
RAM Check: WRONG - Less than 8GB memory
Swap Check: OK
Check Partitions (/ , /var/log, /data and /storage): OK
Check Databases Users OK
Check limits: OK
Check mariadb.ngc Service is running OK
Check licensing: OK
Check Java Version: OK
Check mysql2 is installed: OK
Check installed MariaDb packages: OK
Check if user ng-screener exists: OK
Check if /log-collector directory exists: OK
Check if ngStorage is installed: OK
Check if ng-storage.service is running: OK
Check ngStorage status: OK
Check LimitMEMLOCK property: OK
Check ES_JAVA_OPTS property: OK
Check if ng-zookeeper.service is running: OK
Check if ng-messaging.service is running: OK
Check if ng-mesos-master.service is running: OK
Check if ng-mesos-slave.service is running: OK
Check if ng-thrift-server.service is running: OK
Check if ng-history-server.service is running: OK
Check if ng-screener.service is running: OK
Check heap size properly set in /etc/ng-screener/daemon/ng-screener.env: OK
Check database exists: OK
Check user admin exists: OK
Check if ng-screener-ui.service is running: OK
Check heap size properly set in /etc/ng-screener/ui/ng-screener-ui.env: OK
Check if case-manager.ngc is running: OK
Check if /etc/init.d/management.ngc is running: OK
Check indices count: OK
```



# Appliance Administration

## Ngadmin tool

- Administration tool for NG|Screener Daemon
- Simply type `ngadmin` in command line
  - Tenant information has to be provided (using `--tenant=TENANT_NAME` option)
- Possible actions
  - Import/Export controls
  - Remove data from NG|Storage
  - Launch processing of data to NG|Storage
  - Reload reference data caches
  - Import/Export Dashboards
  - Update license
  - ...



# Appliance Administration

## Ngadmin tool

- Help on commands
  - use -h option

```
[root@NG-SCREENER translators]# ngadmin licensing_updateLicense -h
licensing_updateLicense
Update license
Parameter  Required  Description
f          true     The license to update
s          false    Skip checking if the file is valid for update (default: false)
```



# Appliance Administration

## Ngadmin tool

- `data_launchInitialProcessing`
  - Start loading Initial data to NG|Storage
    - Related to NG|Storage window
    - Done usually once by implementation consultant at first install
  - Meta data in NG|Screener to know where it should start (what has already been processed)
    - Table `PROCESSING_LOG_FILE` in MariaDB

```
[root@NG-SCREENER translators]# ngadmin data_launchInitialProcessing -h
data_launchInitialProcessing
start the initial procesing
Parameter  Required  Description
wait       false     Wait for end of job
```



# Appliance Administration

## Side note on MariaDB

- Used to store application data
  - Also stores NG|Case Manager DB
- Persistent data (needs to be backup)
- Accessible by:
  - `mysql`
  - `connect ngscreener;`
  - `SHOW TABLES;` (To show tables in DB)
- Example of data stored:
  - Roles on NG|Screener UI
  - Control definitions
  - Realtime Analysis policies





# Appliance Administration

## Ngadmin tool

- `data_removeEntries`
  - Delete data from NG|Storage
    - Data still present in log-collector
    - Reloaded when executing `data_launchInitialProcessing`
  - If data not present in log-collector, `data_removeEntries` will not delete data

```
[root@NG-SCREENER translators]# ngadmin data_removeEntries -h
data_removeEntries
Remove data from NgStorage
Parameter  Required  Description
f          false    The date pattern to select data to clean. Format dd-mm-yyyy
force      false    Skip confirmation
o          false    The hostPattern pattern to select data to clean. Default value: *
s          false    The service pattern to select data to clean. Default value: *
t          false    The date pattern to select data to clean. Format dd-mm-yyyy
```



# Appliance Administration

## Ngadmin tool

- `data_sanitize`
  - Sanitize data by synchronizing NG|Storage and data in log-collector
    - Remove from NG|Storage data not present in log-collector

```
[root@NG-SCREENER translators]# ngadmin data_sanitize -h
data_sanitize
Remove data not present in log collector from NG|Storage
Parameter  Required  Description
f           false     The date pattern to select data to clean. Format dd-mm-yyyy
t           false     The date pattern to select data to clean. Format dd-mm-yyyy
```



# Appliance Administration

## Ngadmin tool

- `data_removeEntries` vs `data_sanitize`
- `data_removeEntries`
  - Will remove data in NG|Storage if data still available in log-collector
    - Clean way to delete data from both NG|Storage and log-collector
      1. Delete from NG|Storage using `data_removeEntries`
      2. Afterwards, delete data from log-collector
- `data_sanitize`
  - Will take log-collector as reference to synchronize data in NG|Storage
    - Used to clean NG|Storage when the procedure above has not been followed





# Appliance Administration

## Ngadmin tool

- `util_encodePassword`
  - Encode password to not be readable inside configuration files
  - Use `==` before value inside configuration file to specify that password is encoded
    - Polling configurations
    - `security.conf` file (LDAP configuration)

```
[root@NG-SCREENER translators]# ngadmin util_encodePassword -h
util_encodePassword
Encode the password
Parameter  Required  Description
args       true
```



## Appliance Administration

Important configuration files

- Could be modified in command line
- Or using Management Center



# Appliance Administration

## Important configuration files

- `/etc/ng-screener/common/ngStorage.conf`
- Configure data loading in NG|Storage
- Important parameters
  - `ngStorageWindowInDays=365`
    - By default ngStorage will have 365 days of data, need to be modified to set different window
    - `ngadmin data_launchInitialProcessing` to load missing data
  - `ngStorageExcludedServices=service@host`
    - Comma separated list of services to be excluded
    - `data_removeEntries -s service` to clean already loaded data
- Restart of Daemon and UI
- Warning: Only increase NG|Storage window if storage capacity is sufficient
  - ~8 times size in log-collector



# Appliance Administration

## Important configuration files

- `/etc/ng-screener/daemon/modules/control.conf`
- Configure parameters for control execution
- Important parameters
  - `globalControlTimeout` → Timeout for query execution in milliseconds
  - Option relative to concurrent executions, missed executions, templates, ...
- Restart of Daemon



# Appliance Administration

## Important configuration files

- `/etc/ng-screener/daemon/modules/realtimeAnalysis.conf`
- Configure notification for threshold policies on number of events (Realtime Analysis cf. NG|screener UI admin training)
- Important parameters
  - Tenant Information → Always even when only one tenant
  - `config[x].AnalysisCheckInterval` → Interval of checking against threshold
  - `config[x].EmailSubject`
  - `config[x].EmailBody`
  - SMTP configuration parameters
- Restart of Daemon



# Appliance Administration

## Service Config files

- `/etc/ng-screener/daemon/serviceConfig/`
- Link between syslog-ng and NG|Screener daemon
- One file per service and type of data collection
  - T24 Protocol two different, one for flat file import and another one for polling
- To check when service do not appear in NG|Screener UI
- Important parameters
  - `syslogService_x = <directory name in log-collector>`
    - Can add an entry if needed (have `syslogService_1`, `syslogService_2`, etc...)
  - `indexPattern = <BDM index pattern to be used for the service>`
  - `indexGranularity=<day | month | year>`
- Restart of Daemon and UI



# Appliance Administration

## Syslog-ng Rules

- `/etc/syslog-ng-rules/`
- Syslog-ng rules files
- `/etc/syslog-ng-rules/syslog-ng.conf`
  - Global configuration file, should not be modified
- Rules for handling syslog entries for specific service
  - `.root` for all services should be present
- Restart of `syslog-ng.ngc`



# Appliance Administration

## NG|Storage Configuration file

- `/etc/ng-screener/ngstorage/ngStorage.yml`
- Modification to be done when:
  - NG|Storage to be run as a cluster\*
  - Performance tuning of NG|Storage
- Need a restart of ng-storage service

\* For information about installation on cluster, refer to Cluster Installation chapter in NG|Install guide





# Appliance Administration

## NG|Processing Configuration files

- `/usr/local/ng-screener/ngprocessing/ngspark/conf/spark-defaults.conf`
  - Spark memory configuration
  - Mesos connectivity
  - ElasticSearch Connectivity
  - ...
- `/usr/local/ng-screener/ngprocessing/ngmesos/etc/mesos-slave/resources/mem`
  - Memory that will be allocated to mesos slave for job execution
  - Given in MB
- `/usr/local/ng-screener/ngprocessing/ngmesos/etc/mesos-slave/resources/cpus`
  - Number of CPUs that could be used by mesos slave service
- Side note: Number of parallel executions will depend on `spark.executor.memory`, `spark.executor.cores` as well as previous mesos slave config
  - Example: if `spark.executor.memory=2G`, `spark.executor.cores=2` and we have mesos mem → 6000 and cpus → 6
    - 3 parallel execution will be possible



# Appliance Administration

## Multi Tenancy Configuration

- NG|Screener (starting with V7.1) is always multi-tenant
  - DEFAULT tenant on a single tenant configuration
  - Will make changes on Data collection and Reference Data
    - Need to specify the tenant (see related slides)
- If new tenant has to be defined
  - Scripts available to define new tenants



# Appliance Administration

## New Tenant creation

- Execute `createTenant.py` script in `/usr/local/ng-screener/tools/multi-tenancy/`
  - `python createTenant.py -t MYTENANT -u superadmin -p netguardians -url https://demolocal1.netguardians.ch/auth/`
    - -t: name of tenant
    - -u: name of the super admin user
    - -p: password of the super admin user
    - -url: URL for accessing NG|Auth for the tenant (different host each time)
  - Restart needed of `ng-screener` and `ng-screener-ui` (and `case-manager`\*)
- `/etc/httpd/conf.d/netguardians.conf` has to be modified as well
  - `ServerAlias NEW_TENANT_DNS_NAME`
  - `RequestHeader set X-NG-TENANTID "MYTENANT" "expr=%{HTTP_HOST} == NEW_TENANT_DNS_NAME'"`
  - Restart of `httpd` service: `systemctl restart httpd.ngc`
- Add an entry in `/etc/hosts`
  - `IP_OF_MACHINE NEW_TENANT_DNS_NAME`
  - Example: `192.168.56.11 demolocal1.netguardians.ch`

\*case manager new tenant creation is not automated at the moment, but will be in next minor release



# Appliance Services

## Command Line

- Using systemctl command
- `systemctl start service_name`
- `systemctl status service_name`
- `systemctl stop service_name`

## Management Center

| Service name              | Service description  | Start |
|---------------------------|--|-------|
| case-manager.ngc          | NG Screener Case Manager   | Yes   |
| httpd.ngc.service         | The Apache HTTP Server   | Yes   |
| ng-discover.service       | Ng-discover  | Yes   |
| ng-history-server.service | History Server   | Yes   |
| ng-mapserver.service      | ngMapServer  | Yes   |
| ng-mesos-master.service   | Mesos Master   | Yes   |
| ng-mesos-shuffle.service  | Mesos Shuffle  | No    |
| ng-mesos-slave.service    | Mesos Slave  | Yes   |
| ng-messaging.service      | NGIMessaging   | Yes   |
| ng-screener-ui.service    | NG Screener UI   | Yes   |
| ng-screener.service       | NG Screener Daemon   | Yes   |
| ng-storage.service        | ngStorage  | Yes   |
| ng-thrift-server.service  | Thrift Server  | Yes   |
| ng-zookeeper.service      | NG Zookeeper   | Yes   |
| polling-system            | NG Polling System - polls events from systems and sends them to syslog | No    |
| snmptrapd.ngc.service     | Simple Network Management Protocol (SNMP) Trap Daemon                  | Yes   |
| syslog-ng.ngc.service     | System Logger Daemon   | Yes   |



## General Services

syslog-ng.ngc      Syslog server, central point for data collection  
and routing

httpd.ngc              Http proxy for all web applications

mariadb.ngc          Maria DB, use to store meta data for  
NG|Screeener solution and Case Manager DB



# Which component (RPM) provides which services?

- ngDaemonDistrib
  - ng-screener
- ngBrowser
  - ng-screener-ui
- ngStorage
  - ng-storage
  - ng-platform
- ngSyslogNg
  - syslog-ng.ngc
- ngMessaging
  - ng-messaging
  - ng-kafka-manager
  - ng-zookeeper
- ngScoringApi
  - ng-scoring-api
- ngScoringApiUi
  - ng-scoring-api-ui
- NgProcessing
  - ng-history-server
  - ng-mesos-master
  - ng-mesos-slave
  - ng-mesos-shuffle
  - ng-thrift-server
- ngCaseManager
  - case-manager
- ngMapServer
  - ng-mapserver
- NgPollingSystem
  - polling-system
- NgManagementCenter
  - Management
- NgAuth
  - ng-screener-auth



## Ng-platform service

- Pseudo service for easily restarting platform services without caring about order
- Platform is not all products
  - Storage
  - Messaging
  - Daemon
  - Processing
  - UI
- Normal to not have status running



## NgProcessing Services

`ng-mesos-master`      Receive execution requests from the daemon. Will be the one executing the python code.

`ng-mesos-slave`      Present on the master and on each node having ngstorage. Will be doing partial processing of the parent process from the master.

`ng-mesos-shuffle`      Responsible to split the master job to multiple sub-jobs to be dispatched on slaves.

`ng-history-server`      Web UI for tracking completed and running spark applications.

`ng-thrift-server`      Provides JDBC access to SparkSQL (used to fill jasper reports).





## NgMessaging Services

ng-messaging                  Kafka server itself.

ng-kafka-manager          Web UI to manage Kafka topics.

ng-zookeeper                keep the state of the "zoo". Small service that  
                                 handle configuration and topology of the Kafka  
                                 and Mesos cluster (who is master, where are  
                                 the slaves)



## Health Checks

- Check disk usage
  - Partition usage: `df -h`
  - Directories size: `du -h --max-depth=1 /storage`
- CPU and memory usage
  - `top`
  - `ps aux`



## Connectors Installation and Update

- Can be done either in command line or using management center
- By command line (as root)
  - Install: `rpm -ivh connector-xyz.rpm`
    - Check if return code = 0 (command `echo $?`)
    - Check if listed in installed rpms (`rpm -qa | grep connector-xyz`)
  - Uninstall: `rpm -e connector-xyz`
  - Update
    - Uninstall old version then install new



# Management Center



## Accessing Management Center

- Web Interface for management
- [https://NG\\_SCREENERS\\_IP/mc/](https://NG_SCREENERS_IP/mc/)
- Default credentials
  - User: admin
  - Password: netguardians

The screenshot shows the login page for NG|ManagementCenter 1.0.0. At the top, there is a gear icon followed by the text "NG|ManagementCenter 1.0.0". Below this, a message states: "You must enter a username and password to login to the NG|ManagementCenter server on 10.194.6.109". There are two input fields: the first is labeled "Username" with a user icon on the left, and the second is labeled "Password" with a lock icon on the left. Below the password field is a checkbox labeled "Remember me". At the bottom, there are two buttons: a red "Reset" button with a pencil icon and a blue "Sign in" button with a right-pointing arrow icon.



## MC – NG|Screener Configuration

- Information:  
NG|Screener logs and status
- Audit trails:  
Collected audit trails
- Daemon configuration:  
NG|Screener restart and  
advanced tweaking

Configuration

| Command                                   | Description   |
|---|---|
|   | Information   |
| <a href="#">View server logfile</a>       | View server logfile. The command times out in 10 minutes.                   |
| <a href="#">Download server logfiles</a>  | Download server logfiles  |
| <a href="#">Show version</a>              | Show NG Screener version and license  |
|   | Audit trails  |
| <a href="#">View audit trails</a>         | View recent audit trails. The command times out in 10 minutes.              |
| <a href="#">Download audit trails</a>     | Download audit trail files  |
|   | Daemon configuration  |
| <a href="#">Restart ng-screener</a>       | Restart ng-screener daemon  |
| <a href="#">Edit daemon configuration</a> | Edit daemon configuration. Restart the ng-screener daemon to apply changes. |
| <a href="#">Edit module configuration</a> | Edit module configuration   |
|   | Static data   |

Hide menu

NG|Screener

Configuration

Modules and Connectors

Scheduled Tasks

System Services

NG|ConsoleTrackingSystem

NG|ManagementCenter

System

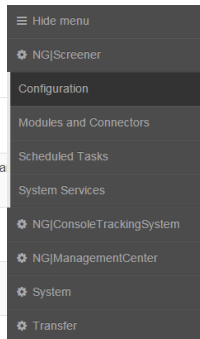
Transfer



# MC – NG|Screener Configuration

- Reference data:  
Reference data file editing
- Polling:  
Status of polling and definition of  
polling targets
- Custom scripts:  
Process automation script definition  
(cf. Automation training)
- **Maintenance:**  
Backup creation and other  
maintenance activities

|  |   |
|--|---|
|  | Reference Data  |
| <a href="#">Edit cache configuration</a> | <b>Edit cache configuration</b> Reload Reference Data module or restart daemon to apply changes. To delete a cache configuration, edit it and delete all content from the file.       |
| <a href="#">Add cache configuration</a>  | Add cache configuration with sample parameters. Then edit the cache configuration to adapt to your need.  |
| <a href="#">List cache entries</a>       | List entries of cache. Number of entries displayed are limited to accelerate the loading process.   |
|  | Polling   |
| <a href="#">Show polling status</a>      | Show polling status   |
| <a href="#">Edit polling target</a>      | <b>Edit polling target</b> Restart the ng-screener daemon to apply changes. To delete a target, edit it and delete all content from the file.   |
| <a href="#">Add polling target</a>       | Add polling target. Restart the ng-screener daemon to apply changes.  |
|  | Custom scripts  |
| <a href="#">Edit custom script</a>       | <b>Edit custom script</b> To delete a script, edit it and delete all content from the file.   |
| <a href="#">Add custom script</a>        | Add custom script   |
|  | Maintenance   |
| <a href="#">Backup</a>                   | Creates a backup file   |
| <a href="#">Reset search index</a>       | Recreate full-text search index database. While recreating the database, text searches performed on NG Browser will return only partial results. This operation can take a long time. |



# NG | Storage Administration







## Overview

- NG|Storage provides a REST API
- Can be queried using `curl` command
  - Only from localhost
- A web UI is provided to perform some administration tasks
  - NG|Storage Admin



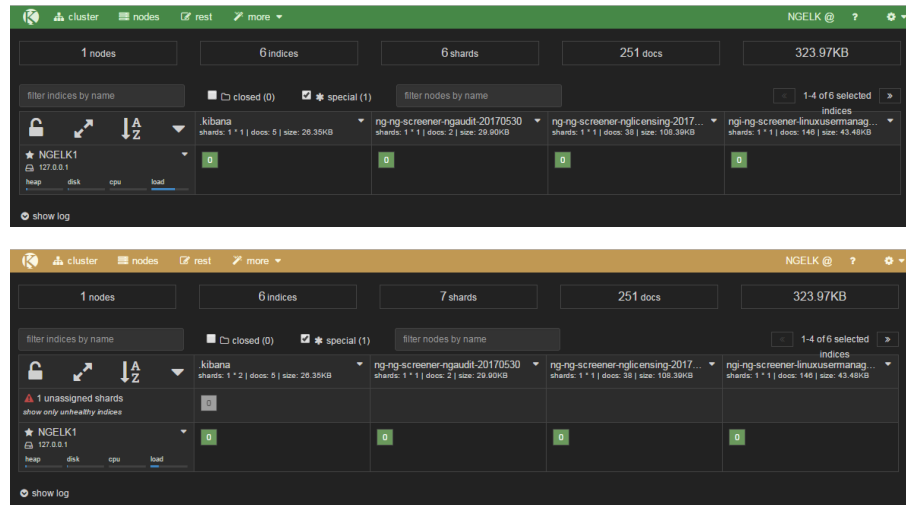
## Health Check – Command line

- curl command can be used to check health of cluster
  - `curl -XGET 'http://localhost:9200/_cluster/health?pretty=true'`

```
{
  "cluster_name" : "NGELK",
  "status" : "green",
  "timed_out" : false,
  "number_of_nodes" : 1,
  "number_of_data_nodes" : 1,
  "active_primary_shards" : 6,
  "active_shards" : 6,
  "relocating_shards" : 0,
  "initializing_shards" : 0,
  "unassigned_shards" : 0,
  "delayed_unassigned_shards" : 0,
  "number_of_pending_tasks" : 0,
  "number_of_in_flight_fetch" : 0,
  "task_max_waiting_in_queue_millis" : 0,
  "active_shards_percent_as_number" : 100.0
}
```

## Health Check – Web UI

- KOPF can be used to check health of cluster as well
- Accessible through NG|Screeener UI only to admin users
- The color of top menu = status of cluster





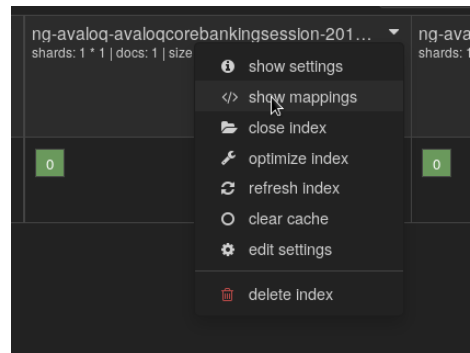
## Query NG|Storage with curl

- Query data for administrative purpose can be done either with
  - NG|Discover (cf. NG|Discover training)
  - curl in command line (REST API)
- Example using curl
  - ```
curl -XPOST 'http://localhost:9200/ngt-*/_search?pretty=true' -d '{ "from" : 0, "size" : 1, "query": { "prefix": { "business_reference" : "FT" } } }'
```



## NG|Storage Admin UI

- NG|Storage Admin offers easy way to perform common tasks
  - Show mappings of index
  - refresh index
    - Usually automatically refreshed every 30 seconds
  - Edit some settings of index (number of replicas for example)
  - Delete index
- Warning: NG|Screener keeps metadata regarding loading in NG|Storage → Deleting index directly from NG|Storage Admin will not delete metadata
  - Use `ngadmin` command `data_removeEntries` for clean remove



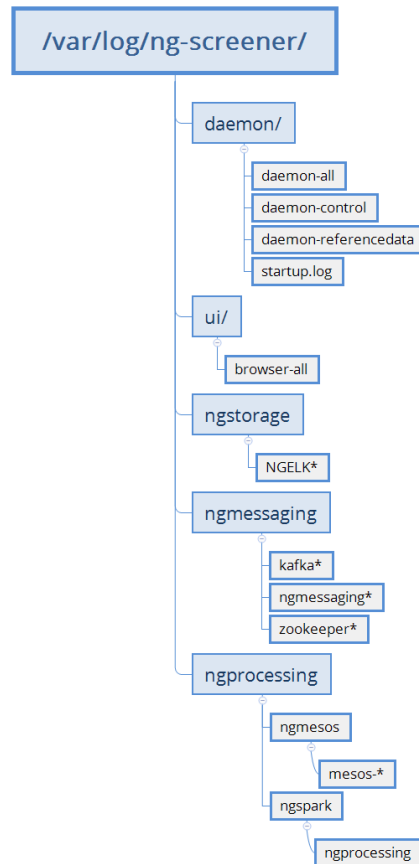
# Troubleshooting





# Application Log Files

- NG|Screener Daemon
  - `/var/log/ng-screener/daemon/`
- NG|Screener UI
  - `/var/log/ng-screener/ui/`
- NG|Storage
  - `/var/log/ng-screener/ngstorage/`
- NG|Messaging
  - `/var/log/ng-screener/ngmessaging/`
- NG/Processing
  - `/var/log/ng-screener/ngprocessing/`





## Application Log Files – Most common cases

- When UI issues:
  - `/var/log/ng-screener/ui/browser-all.log`
- Data feeding and general processing:
  - `/var/log/ng-screener/daemon/daemon-all.log`
  - `/var/log/ng-screener/ngstorage/NGELK.log`
  - `/var/log/ng-screener/ngmessaging/kafka-server.log`
- Control execution:
  - `/var/log/ng-screener/daemon/daemon-all.log`
  - `/var/log/ng-screener/ngprocessing/ngmesos/mesos-master.ERROR`
  - `/var/log/ng-screener/ngprocessing/ngspark/ngprocessing.log`





## Other solution Log Files

- Polling System
  - `/var/log/ng-screener/polling-system/`
- NG|Case manager
  - `/var/log/ng-screener/case-manager.log`



## Useful Tools

- Check if a port is open
  - `telnet <IPADDR> <PORT>`
  - If could connect, port is closed
- Check messages exchange
  - `tcpdump`
    - `tcpdump -i eth0 -vvv -s 65535 -w /home/admin/MyCaptureFile.pcap host 1.2.3.4` (write to file for analysis with wireshark)
    - `tcpdump -i eth0 -s0 -n -X -vvv port 389` (decode ldap packets)
    - `man tcpdump` for more informations
- Check connection to Database and execute queries
  - `jisql` tool
  - Available in `/usr/local/ng-screener/tools/jisql.zip`



## Useful Tools

- Jisql example
  - Unzip in /home/admin/
  - Move inside directory
  - Example command to connect to Oracle DB
    - `java -classpath lib/jisql.jar:lib/jopt-simple-3.2.jar:lib/javacsv.jar:/usr/local/ng-screener/lib/ojdbc6-11.2.0.3.jar com.xigole.util.sql.Jisql -formatter csv -user system -password netguardians -driver oracle.jdbc.driver.OracleDriver -c \; -cstring jdbc:oracle:thin:@//10.194.6.92:1521/ORCL`
  - Best to put this line in shell script, to be found easily



## Useful Tools

- Check LDAP settings
  - ldapsearch tool
    - `ldapsearch -x -D "ngscreener@corp.netguardians.ch" -W -H ldap://10.194.6.51 -b "dc=corp,dc=netguardians,dc=ch"`
    - -x: Simple Authentication Mode
    - -D: user to bind to LDAP
    - -W: Ask for password
    - -H: LDAP Host (using default port 389)
    - -b: Base DN



## Useful Tools

- Check Data collection with Kafkacat
  - `/usr/local/ng-screener/tools/kafkacat -C -b 127.0.0.1 -t ng-syslogEvents -z snappy`
  - Enables to have a look directly at the flow of events coming into the solution
  - In addition to checking event coming into the log-collector, this will be second check of data collection mechanism



# Useful GUI



- Mesos Console

- Monitor Control execution

- See available resources

| Resources |     |     |        |         |
|-----------|-----|-----|--------|---------|
|           | CPU | GPU | Mem    | Disk    |
| Total     | 7   | 0   | 6.8 GB | 43.8 GB |
| Allocated | 1   | 0   | 512 MB | 0 B     |
| Offered   | 0   | 0   | 0 B    | 0 B     |
| Idle      | 6   | 0   | 6.3 GB | 43.8 GB |

## Active Tasks

| Framework ID         | Task ID | Task Name                 | Role | State   | Health | Started at | Host      |                         |
|----------------------|---------|---------------------------|------|---------|--------|------------|-----------|-------------------------|
| ...66d62d7cd82e-0004 | 0       | control_93_2068 0         | *    | STAGING | -      |            | 127.0.0.1 | <a href="#">Sandbox</a> |
| ...b7e90b56740b-0000 | 0       | Thrift JDBC/ODBC Server 0 | *    | RUNNING | -      | a week ago | 127.0.0.1 | <a href="#">Sandbox</a> |

MESOS

FrameworksAgentsRolesOffersMaintenance

NG\_MESOS

Mesos4591b713-2c90-4c61-b411-66d62d7cd82e

Cluster: NG\_MESOS  
Leader: 127.0.0.1:5050  
Version: 1.6.0  
Built: 4 months ago by Jenkins  
Started: 7 hours ago  
Elected: 7 hours ago

Agents

Activated1  
Deactivated0  
Unreachable2

Tasks

Staging0  
Starting0  
Running1  
Unreachable0  
Killing0  
Finished4  
Killed1  
Failed0

Active Tasks

| Framework ID         | Task ID | Task Name                 | Role | State   | Health | Started at | Host      |                         |
|----------------------|---------|---------------------------|------|---------|--------|------------|-----------|-------------------------|
| ...b7e90b56740b-0000 | 0       | Thrift JDBC/ODBC Server 0 | *    | RUNNING | -      | a week ago | 127.0.0.1 | <a href="#">Sandbox</a> |

Unreachable Tasks

| Framework ID          | Task ID | Task Name | Role | Started at | Agent ID |
|-----------------------|---------|-----------|------|------------|----------|
| No unreachable tasks. |         |           |      |            |          |

Completed Tasks

| Framework ID        | Task ID | Task Name | Role | State | Started at | Stopped | Host |
|---------------------|---------|-----------|------|-------|------------|---------|------|
| No completed tasks. |         |           |      |       |            |         |      |

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# Troubleshooting Method

- Most Important thing
  - Follow the flow of data
  - Always look at the logs
    - At startup
    - During execution of specific action
  - Try understanding the logs
    - Sometimes useful information is provided (bad credentials, file does not exist, ...)
      - See if it is related to your issue or not (Do not focalize on first error in logs)
    - Google can be used, sometimes error is not NG | Screener specific
      - For example when doing polling configurations, common errors will be DB specific errors and not NG | Screener errors



## Support Contact Prerequisites

- When contacting support, please provide
  - Logs related to issues (cf. log files)
  - Clear description of the problem
  - Actions that lead to issue





## Final note

- Refer to NG| Screener Administration Guide for further information and details.



# THANK YOU!

## Contact us



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