

General

Authenticating with nats cli password, nkey, creds Explain nats server report in more detail, including new watch option

Explain nats server request in more detail

- Subscriptions
- kick

- ...

nats auth

Leaderhsip change

Removing a node from a cluster - find meta group members?

Scaling a stream down and up

Catching a stream create with --trace and creating a stream with --config

TLS testing

Server Configuration

Obtain current server configuration and statistics (SYS)

nats server request variables

Reload server config file (SYS) - server id can be obtained from above

nats server config reload
<server id>

Graphs - ASCII Dashboard

A number of commands have a **graph** subcommand or **--graph** option.

nats server graph
nats stream graph <stream>
nats consumer graph <stream>
<consumer>

Graph subject traffic. E.g. Jetstream consumer management.

nats sub

- '\$JS.API.CONSUMER.CREATE.>'
- '\$JS.API.CONSUMER.INFO.>'
- '\$JS.API.CONSUMER.DELETE.>'
- --graph

Extended Health Check

Health probe (SYS) - used by Kubernetes et.

nats server report health

- Ensure you see all servers and all report 200
- Repeat multiple times if needed

Check clusters and routes (SYS)

nats server ls <server count>

- Ensure all servers respond quickly. This means all expected servers replied.
- Ensure there are 0 slow consumers
- Ensure routes/GW are consistent
- Look for consistent versions
- Look for consistent CPU usage
- Look for consistent uptime
- Look for consistent memory usage. Is one server using RAM excessivly?
- Check the number of connections.

Message traffic (SYS) - Run as system user for extended info

nats traffic

- **Raft:** Ensure votes are all to 0 (non zero may indicate instability)
- **Raft:** Ensure append is half of reply
- **General:** Ensure there are less than 1000 JS API Requests per second

Jetstream health - Note that not all servers may have Jetstream enabled (SYS)

nats server report jetstream <JS
server count>

- Ensure all servers respond quickly. This means all expected servers replied.
- Ensure lag is 0
- Ensure the number of consumers is as expected
- Make sure there is a stable meta leader

Exhaustive Stream and consumer status (SYS) WARNING - These reports can be large and impact server performance

nats server stream-check

- Check for out of sync streams and consumers.

 Use --unsynced to filter.
- Check for expected replicas count, stream size, message count
- Check for offline peers

Gather and analyze information for auditing

nats audit gather

• Keep audit data for post mortem.

And do a quick analysis

nats audit analyze

- This is not an exhaustive report. Details may change over time.
- See nats audit checks for a list of checks.