

#### Overview

**Download:** https://github.com/nats-io/natscli **One stop command line utility** to interact with and manage NATS.

Independent from NATS server version.

Uses only public Golang API. Please update regularly or compile the GitHub main branch.

# **Getting started**

Built-in cheat sheet
nats cheat
Always check help for additional options
nats server info --help
Quick system status
nats server list
Show raw nats cli messages. No secret sauce

#### Publish/Subscribe

Listen to a subject
nats sub foo
Publish to a subject
nats pub foo Hello
Listen to wildcards
nats sub '>'
nats sub 'orders.emea.\*'
nats sub 'orders.\*.o1234'

#### **Context and credentials**

List local connectioncontexts
nats context list
Store credentials and server URL for cloud
nats context add --server
nats://mycloud.io --user
admin --password admin cloud
Select context
nats context select cloud

#### Request/Reply

Simple reply mockup
nats reply bar World
Send a request
nats request bar Hello

#### **JetStream**

List streams
nats stream list
Create stream interactively and with defaults
nats stream add <stream>
nats stream add <stream>
--replicas 3 --defaults
Stream view content
nats stream view <stream>
Publish JetStream message with ack
nats pub --jetstream foo Hello

# **Key-Value Store**

List Key-Value buckets
nats kv list
Create a KV bucket
nats kv add <bucket>
Put and get a key
nats kv put <bucket> foo Hello
nats kv get <bucket> foo
Watch for changes
nats kv watch <bucket> '>'

# **Distributed security**

Create an operator
nats auth operator add
my-system
Generate a sample config
nats server generate
server.conf
Walkthrough with accounts and users
nats auth cheat

## **Measure roundtrip and latency**

Roundtrip time client to server
nats --server srv1:4222 rtt
Measure latency between clients connected to distinct
servers in the mesh
nats latency --server srv1:4222

### **Server Health and Monitoring**

--server-b srv2:4222

Show system health (SYS)
nats server list
Detailed server information (SYS)
nats server info <server>
Check account traffic
nats traffic
Gather and analyze for debugging (SYS)
nats audit gather
nats audit analyze <audit zip>

#### JetStream Monitoring

Show JetStream and meta status (SYS)
nats server report jetstream
List all streams
nats stream report
Stream details
nats stream info <stream>

## JetStream backup and purge

Backup a stream with consumer state
nats stream backup <stream> <dir>
Restore stream from backup
nats stream restore <file>
Backup just messages
nats stream backup --no-consumers
<stream> <dir>
Backup all streams in current account
nats account backup <dir>
Purge a stream
nats stream purge <stream>
Purge a subject in a stream
nats stream purge --subject foo
<stream>

## Trace and debug message flow

Trace message without delivering to clients
nats trace foo Hello
Trace with delivery and timestamps
nats trace --timestamp --deliver foo

## Benchmarking

Subscribe core NATS for 5 clients
nats bench sub foo --clients 5
--msgs 10000
Publish core NATS with 10 publishers
nats bench pub foo --clients 10
--msgs 10000 --size 512
Request-reply server for core nats
nats bench service serve --clients 5
testservice
Benchmark core nats subscribe for 5 clients

nats bench service request --clients 5 testservice --msgs 10000 JetStream async acknowledged publishing of batches

JetStream async acknowledged publishing of batches of 100

nats bench js pub foo --create
--batch 100

JetStream sync publishing using 10 clients - purge stream

nats bench js pub foo --purge
--batch=1 --clients=10 --msgs 10000
JetStream delivery from a stream through a durable

nats bench js consume --clients 4
--msgs 10000

## Dashboards - top style

consumer with 4 instances

Watch all servers (SYS)
nats server watch servers
Watch a single server with statistics (SYS)
nats server top <server>