

While creating a broker, we can configure it like setting username, passwords, protocols and many more things.

We can check what are all these configurations could be using the command

bin>artemis help create

O/P:

```
C:\STS-JMS\apache-artemis-2.11.0\bin>artemis help create
NAME
    artemis create - creates a new broker instance

SYNOPSIS
    artemis create [--addresses <addresses>] [--aio] [--allow-anonymous]
        [--autocreate] [--blocking] [--cluster-password <clusterPassword>]
        [--cluster-user <clusterUser>] [--clustered] [--data <data>]
        [--default-port <defaultPort>] [--disable-persistence]
        [--encoding <encoding>] [--etc <etc>] [--failover-on-shutdown] [--force]
        [--global-max-size <globalMaxSize>] [--home <home>] [--host <host>]
        [--http-host <httpHost>] [--http-port <httpPort>]
        [--java-options <javaOptions>] [--jdbc]
        [--jdbc-bindings-table-name <jdbcBindings>]
        [--jdbc-connection-url <jdbcURL>]
        [--jdbc-driver-class-name <jdbcClassName>]
        [--jdbc-large-message-table-name <jdbcLargeMessages>]
        [--jdbc-lock-expiration <jdbcLockExpiration>]
        [--jdbc-lock-renew-period <jdbcLockRenewPeriod>]
        [--jdbc-message-table-name <jdbcMessages>]
        [--jdbc-network-timeout <jdbcNetworkTimeout>]
        [--jdbc-node-manager-table-name <jdbcNodeManager>]
        [--jdbc-page-store-table-name <jdbcPageStore>]
        [--journal-device-block-size <journalDeviceBlockSize>] [--mapped]
        [--max-hops <maxHops>] [--message-load-balancing <messageLoadBalancing>]
        [--name <name>] [--nio] [--no-amqp-acceptor] [--no-autocreate]
        [--no-autotune] [--no-fsync] [--no-hornetq-acceptor]
        [--no-mqtt-acceptor] [--no-stomp-acceptor] [--no-web] [--paging]
        [--password <password>] [--ping <ping>] [--port-offset <portOffset>]
        [--queues <queues>] [--relax-jolokia] [--replicated] [--require-login]
        [--role <role>] [--shared-store] [--silent] [--slave]
        [--ssl-key <sslKey>] [--ssl-key-password <sslKeyPassword>]
        [--ssl-trust <sslTrust>] [--ssl-trust-password <sslTrustPassword>]
        [--staticCluster <staticNode>] [--use-client-auth] [--user <user>]
        [--verbose] [--] <directory>

OPTIONS
    --addresses <addresses>
        Comma separated list of addresses

    --aio
        Sets the journal as asyncio.
```

Like how to disable protocols (acceptors)

```
--no-amqp-acceptor
    Disable the AMQP specific acceptor.

--no-autocreate
    Disable Auto create addresses.

--no-autotune
    Disable auto tuning on the journal.

--no-fsync
    Disable usage of fdatasync (channel.force(false) from java nio) on
    the journal

--no-hornetq-acceptor
    Disable the HornetQ specific acceptor.

--no-mqtt-acceptor
    Disable the MQTT specific acceptor.

--no-stomp-acceptor
    Disable the STOMP specific acceptor.
```

For example, I am going to create a broker with disabled AMQP acceptor

```
C:\STS-JMS\apache-artemis-2.11.0\bin>artemis create broker --no-amqp-acceptor broker1
Creating ActiveMQ Artemis instance at: C:\STS-JMS\apache-artemis-2.11.0\bin\broker1

--user: is a mandatory property!
Please provide the default username:
raahul

--password: is mandatory with this configuration:
Please provide the default password:

--allow-anonymous | --require-login: is a mandatory property!
Allow anonymous access?, valid values are Y,N,True,False
Y

Auto tuning journal ...
done! Your system can make 0.67 writes per millisecond, your journal-buffer-timeout will be 1500000

You can now start the broker by executing:

"C:\STS-JMS\apache-artemis-2.11.0\bin\broker1\bin\artemis" run

Or you can setup the broker as Windows service and run it in the background:

"C:\STS-JMS\apache-artemis-2.11.0\bin\broker1\bin\artemis-service.exe" install
"C:\STS-JMS\apache-artemis-2.11.0\bin\broker1\bin\artemis-service.exe" start

To stop the windows service:
"C:\STS-JMS\apache-artemis-2.11.0\bin\broker1\bin\artemis-service.exe" stop

To uninstall the windows service
"C:\STS-JMS\apache-artemis-2.11.0\bin\broker1\bin\artemis-service.exe" uninstall
```

As I have created a broker with disabled AMQP acceptor, lets check it by starting the server.

```
C:\STS-JMS\apache-artemis-2.11.0\bin\broker1>cd bin
C:\STS-JMS\apache-artemis-2.11.0\bin\broker1\bin>artemis run

  A
  T
  V
  M
  I
  K
  E
  S

Apache ActiveMQ Artemis 2.11.0

2020-06-01 02:26:46,057 INFO [org.apache.activemq.artemis.integration.bootstrap] AMQ101000: Starting ActiveMQ Artemis Server
2020-06-01 02:26:46,452 INFO [org.apache.activemq.artemis.core.server] AMQ221000: Live Message Broker is starting with configuration Broker Configuration (clustered=false,journalDirectory=data/bindings,largeMessagesDirectory=data/large-messages,pagingDirectory=data/paging)
2020-06-01 02:26:46,483 INFO [org.apache.activemq.artemis.core.server] AMQ221013: Using NIO Journal
2020-06-01 02:26:46,514 INFO [org.apache.activemq.artemis.core.server] AMQ221057: Global Max Size is being adjusted to 1/2 of the JVM max size (-Xmx). being defined as 536,870,912
2020-06-01 02:26:46,554 INFO [org.apache.activemq.artemis.core.server] AMQ221043: Protocol module found: [artemis-server]. Adding protocol support for: CORE
2020-06-01 02:26:46,558 INFO [org.apache.activemq.artemis.core.server] AMQ221043: Protocol module found: [artemis-amqp-protocol]. Adding protocol support for: AMQP
2020-06-01 02:26:46,560 INFO [org.apache.activemq.artemis.core.server] AMQ221043: Protocol module found: [artemis-hornetq-protocol]. Adding protocol support for: HORNETQ
2020-06-01 02:26:46,561 INFO [org.apache.activemq.artemis.core.server] AMQ221043: Protocol module found: [artemis-mqtt-protocol]. Adding protocol support for: MQTT
2020-06-01 02:26:46,563 INFO [org.apache.activemq.artemis.core.server] AMQ221043: Protocol module found: [artemis-openwire-protocol]. Adding protocol support for: OPENWIRE
2020-06-01 02:26:46,564 INFO [org.apache.activemq.artemis.core.server] AMQ221043: Protocol module found: [artemis-stomp-protocol]. Adding protocol support for: STOMP
2020-06-01 02:26:46,627 INFO [org.apache.activemq.artemis.core.server] AMQ221034: Waiting indefinitely to obtain live lock
2020-06-01 02:26:46,627 INFO [org.apache.activemq.artemis.core.server] AMQ221035: Live Server Obtained Live lock
2020-06-01 02:26:46,870 INFO [org.apache.activemq.artemis.core.server] AMQ221080: Deploying address DLQ supporting [ANVCAST]
2020-06-01 02:26:46,900 INFO [org.apache.activemq.artemis.core.server] AMQ221080: Deploying ANVCAST queue DLQ on address DLQ
2020-06-01 02:26:46,960 INFO [org.apache.activemq.artemis.core.server] AMQ221080: Deploying address ExpiryQueue supporting [ANVCAST]
2020-06-01 02:26:46,972 INFO [org.apache.activemq.artemis.core.server] AMQ221080: Deploying ANVCAST queue ExpiryQueue on address ExpiryQueue
2020-06-01 02:26:47,582 INFO [org.apache.activemq.artemis.core.server] AMQ221020: Started NIO Acceptor at 0.0.0.0:61616 for protocols [CORE,MQTT,AMQP,STOMP,HORNETQ,OPENWIRE]
2020-06-01 02:26:47,594 INFO [org.apache.activemq.artemis.core.server] AMQ221020: Started NIO Acceptor at 0.0.0.0:5445 for protocols [HORNETQ,STOMP]
2020-06-01 02:26:47,605 INFO [org.apache.activemq.artemis.core.server] AMQ221020: Started NIO Acceptor at 0.0.0.0:1883 for protocols [MQTT]
2020-06-01 02:26:47,618 INFO [org.apache.activemq.artemis.core.server] AMQ221020: Started NIO Acceptor at 0.0.0.0:61613 for protocols [STOMP]
2020-06-01 02:26:47,622 INFO [org.apache.activemq.artemis.core.server] AMQ221007: Server is now live

Started NIO Acceptor at 0.0.0.0:61616 for protocols [CORE,MQTT,AMQP,STOMP,HORNETQ,OPENWIRE]
Started NIO Acceptor at 0.0.0.0:5445 for protocols [HORNETQ,STOMP]
Started NIO Acceptor at 0.0.0.0:1883 for protocols [MQTT]
Started NIO Acceptor at 0.0.0.0:61613 for protocols [STOMP]
Server is now live
```