RabbitMQ CLI Message broker admin

CONCEPTS

Run rabbitmqctl as the same OS user as the broker: it authenticates with the Erlang cookie, and a wrong cookie means a refused connection.

Publisher sends messages
↓ routing key
Exchange routes by type
↓ binding
Queue holds messages
↓ delivery + ack
Consumer processes them

Everything lives in a virtual host (default /). Users, permissions, queues and policies are all scoped per vhost; pass -p <vhost> to look at another one.

NODE AND STATUS

`rabbitmqctl status`
Node health, versions, memory, listeners

`rabbitmqctl ping`
Check the node is reachable

`rabbitmqctl await_startup`
Wait until the node has booted

`rabbitmqctl -n <node> <command>`
Target a specific node

`rabbitmqctl -s <command>`
Silent: no headers, easy to parse

`rabbitmqctl stop_app`
Stop RabbitMQ, keep the Erlang VM

`rabbitmqctl start_app`
Start RabbitMQ again

QUEUES

`rabbitmqctl list_queues`
List queues with name and depth

`rabbitmqctl list_queues -p <vhost>`
List queues in one vhost

`rabbitmqctl list_queues name messages_ready messages_unacknowledged`
Ready vs unacked counts

QUEUES (cont.)

`rabbitmqctl list_queues name type state`
Queue type and state

`rabbitmqctl purge_queue <queue>`
Drop all ready messages

`rabbitmqctl delete_queue <queue>`
Delete a queue

`rabbitmqctl delete_queue <queue> --if-empty`
Delete only when empty

`rabbitmqctl delete_queue <queue> --if-unused`
Delete only when no consumers

`rabbitmqctl list_consumers`
Consumers per queue, with ack mode

EXCHANGES AND BINDINGS

`rabbitmqctl list_exchanges`
List exchanges with name and type

`rabbitmqctl list_exchanges name type durable`
Choose the columns

`rabbitmqctl list_bindings`
List all bindings

`rabbitmqctl list_bindings source_name destination_name routing_key`
Source, target and key only

CONNECTIONS AND CHANNELS

`rabbitmqctl list_connections`
List client connections

`rabbitmqctl list_connections name user vhost state`
Who, where and in what state

`rabbitmqctl list_channels`
List channels

`rabbitmqctl list_channels connection name consumer_count messages_unacknowledged`
Find stuck unacked messages

USERS, VHOSTS, PERMISSIONS

`rabbitmqctl list_users`
List users and their tags

`rabbitmqctl add_user <user> <password>`
Create a user

`rabbitmqctl change_password <user> <new-password>`
Change a password

`rabbitmqctl delete_user <user>`
Remove a user

`rabbitmqctl set_user_tags <user> administrator`
Grant management UI admin

`rabbitmqctl add_vhost <vhost>`
Create a virtual host

`rabbitmqctl delete_vhost <vhost>`
Delete a vhost and its contents

`rabbitmqctl set_permissions -p <vhost> <user> ".*" ".*" ".*"`
Grant configure, write, read

POLICIES

`rabbitmqctl list_policies -p <vhost>`
List policies in a vhost

`rabbitmqctl set_policy <name> "<pattern>" '<json>'`
Apply settings to matching queues

CLUSTERING

`rabbitmqctl cluster_status`
Members, alarms, partitions

`rabbitmqctl join_cluster <seed-node>`
Join this node to a cluster

PLUGINS AND RABBITMQADMIN

`rabbitmq-plugins list`
Show plugins and their state

`rabbitmq-plugins enable <plugin>`
Enable a plugin