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

rabbitmqctl list_queues name type state
Queue type and state

QUEUES (cont.)

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

USERS, VHOSTS, PERMISSIONS (cont.)

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 stop_app && rabbitmqctl reset
Wipe a node back to blank

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

PLUGINS AND RABBITMQADMIN

rabbitmq-plugins list
Show plugins and their state

rabbitmq-plugins list -E
Only explicitly enabled plugins

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