RabbitMQ Commercial Features Evaluation Guide

1. Architecture & Deployment

- Kubernetes, VMs, multi-node clustering

- Multi-AZ, rolling upgrades, auto-healing

- Quorum queues, streams, topology awareness

2. Performance & Scalability

- Publish ≥100k msg/sec, Consume ≥150k msg/sec

- P99 latency ≤20ms, P999 ≤40ms

- Connections ≥30k per node

- Millions of queued messages without degradation

3. Reliability, HA & DR

- Quorum queues (RAFT), failover <5s

- Multi-region DR, backup & restore

- Durable delivery, DLQs, poison-message handling

4. Security & Compliance

- mTLS, LDAP/AD, OAuth2/OIDC, SAML

- TLS 1.2/1.3 encryption, fine-grained ACLs

- Compliance: SOC2, HIPAA, PCI, ISO

5. Protocol & Feature Support

- AMQP 0.9.1, MQTT, AMQP 1.0 (optional)

- STOMP, WebSockets, HTTP API

- Priority queues, delayed messages, TTL, Shovel, Federation

6. Operational Maturity

- Prometheus, Grafana, OpenTelemetry

- Automated remediation, topology visualizer

- Zero-downtime upgrades, patch automation

7. Ecosystem & Integrations

- Terraform, Helm, CI/CD, Service Mesh

- Multi-cloud support

8. Cost, Licensing & SLA

- Per-core/node/cluster licensing

- SLA 99.9–99.99%

- 24×7 support, <1hr critical response

9. Vendor Quality

- Expertise, roadmap, migration support

- Architecture guidance

Acceptance KPIs:

- Publish ≥120k msg/sec

- Consume ≥150k msg/sec

- Failover <5s

- Zero message loss

- Backlog recovery <10 min per 1M msgs

- Connections ≥30k/node

- SLA ≥99.9%

RabbitMQ Commercial Readiness Checklist (One Page)

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Architecture

[ ] Kubernetes Operator support

[ ] Multi-node clustering & automatic healing

[ ] Multi-AZ / Multi-region deployment

Performance

[ ] Publish ≥100k msg/sec

[ ] Consume ≥150k msg/sec

[ ] P99 latency ≤20 ms

[ ] Support for streams & large backlogs

Reliability & DR

[ ] Quorum queues (RAFT)

[ ] Failover <5 seconds

[ ] Backup/restore & DR strategy

Security

[ ] mTLS authentication

[ ] LDAP / OAuth2 / SAML support

[ ] TLS 1.2/1.3 enforced

[ ] Fine-grained ACLs

Protocol Support

[ ] AMQP 0.9.1

[ ] MQTT

[ ] STOMP / WebSockets

[ ] Delayed messages & TTL

Observability

[ ] Prometheus metrics

[ ] Grafana dashboards

[ ] OpenTelemetry tracing

[ ] Logs integrated with ELK/Splunk

Operations

[ ] Zero-downtime upgrades

[ ] Auto-remediation

[ ] Health dashboards

SLA & Licensing

[ ] 99.9–99.99% uptime SLA

[ ] 24×7 support

[ ] Clear pricing model

Final Readiness

[ ] Passed load test

[ ] Passed HA failover test

[ ] Security validated

[ ] DR tested