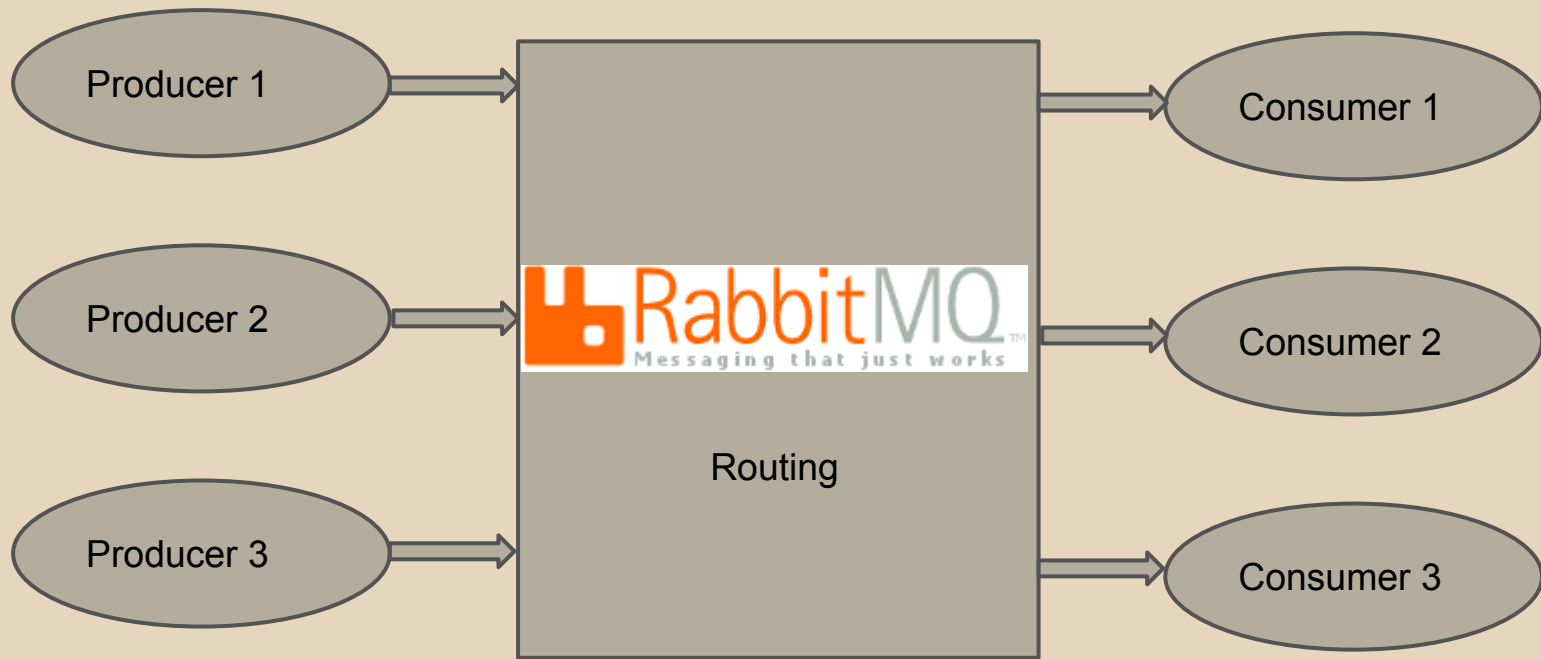


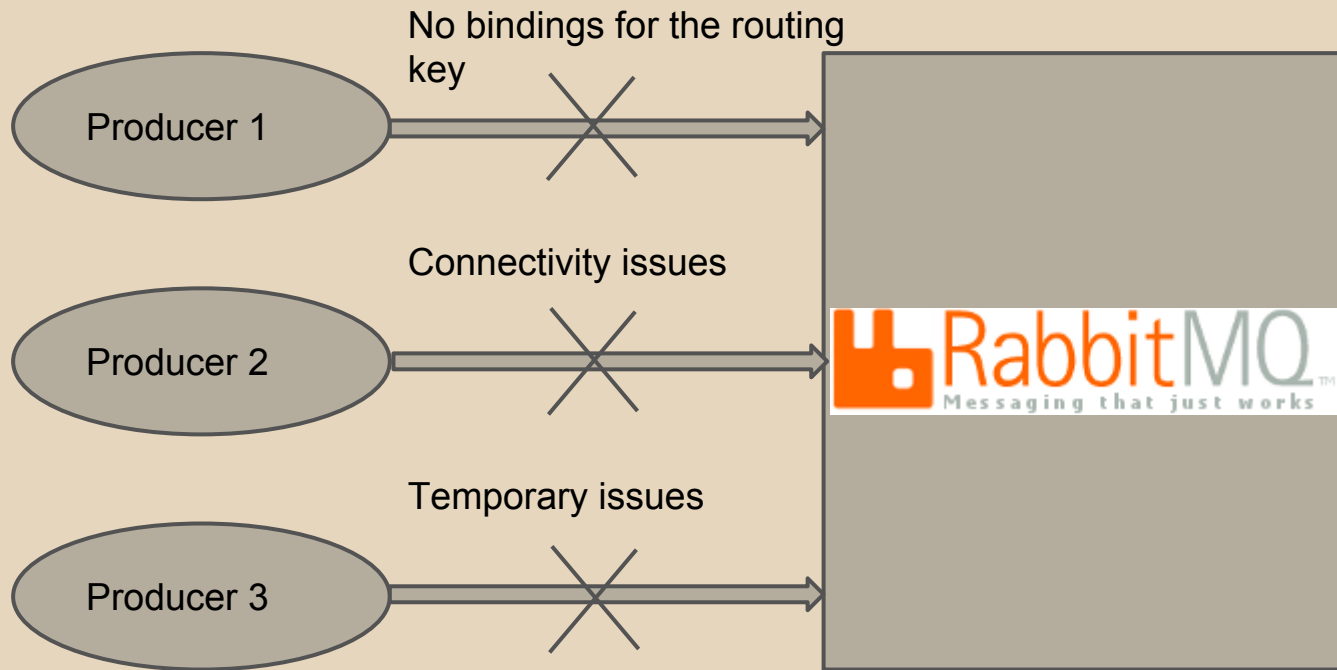
# Safe Bunny

Safe RabbitMQ delivery with local queueing

# RabbitMQ: Common Scenario



# Safe Bunny: What if something fails?

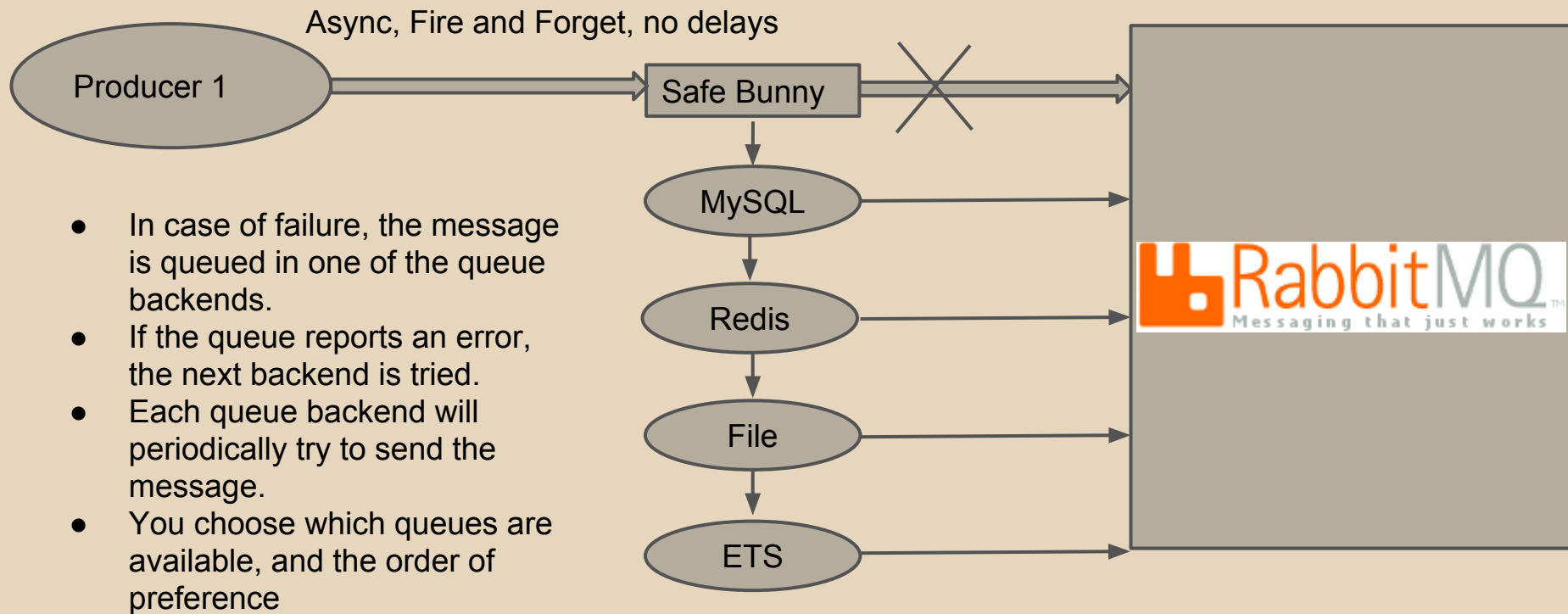


# Safe Bunny: Safe delivery

- Set channel in confirmation mode
- Sync operation, need to wait for server confirmation or timeout
- How/When to retry the operation?
- How to make messages survive long periods of time?



# Safe Bunny: Safe delivery



# Safe Bunny: delivery modes

- Direct to MQ: no local queuing: Use `safe_bunny:deliver_unsafe/3`. This will try to publish a message to the given exchange and routing key, and will not try to queue the message on failure.
- Direct to MQ, local queueing on failure: Use `safe_bunny:deliver_safe/3`. Like the above, but will queue the message in the fallback queues on failure. Fallback queues are tried in order, according to the producers option of the `safe_bunny` application.
- Local queuing only: Consumers will try to send the messages to the MQ. "Safest" option (because you queue first). Use `safe_bunny:queue/3`. One of the queue consumers should pick the new message and try to publish it via `rabbitmq`.

# Safe Bunny: Examples

- `safe_bunny:deliver_safe(Exchange, Key, Payload)`
- `safe_bunny:deliver_unsafe(Exchange, Key, Payload)`
- `safe_bunny:queue(Exchange, Key, Payload)`

All arguments are binary(). Where:

- Exchange is the name of the exchange
- Key is the routing key
- Payload is anything you want it to be

# Safe Bunny: Concurrency

- Concurrency tools: <https://github.com/duomark/epocxy>
- Worker Pool: [https://github.com/tigertext/worker\\_pool](https://github.com/tigertext/worker_pool)



# Safe Bunny: Useful links

- Jenkins, Coverage, Doc: [http://ci.marcelog.name/job/safe\\_bunny/](http://ci.marcelog.name/job/safe_bunny/)
- [https://github.com/marcelog/safe\\_bunny](https://github.com/marcelog/safe_bunny)
- Works great with MinionPools :) [https://github.com/marcelog/rabbitmq\\_minionpool](https://github.com/marcelog/rabbitmq_minionpool)
- RabbitMQ confirmation mode: <http://www.rabbitmq.com/confirms.html>
- RabbitMQ erlang client: <http://www.rabbitmq.com/erlang-client-user-guide.html>

# Thanks!

