

# IV. Backing Services

“Treat backing services as **attached** resources”



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## What is a backing service?

- A **backing service** is any service the app consumes over the **network** as part of its normal operation.
- Examples include:
  - **Datastores** (such as MySQL or CouchDB).
  - **Messaging/queueing systems** (such as RabbitMQ or Beanstalkd).
  - **Binary asset services** (such as Amazon S3 or GCS).
  - **API-accessible consumer services** (such as Twitter, Google Maps, or Last.fm).
  - **Caching systems** (such as Memcached).

# The Twelve-Factor App

I. Codebase

II. Dependencies

III. Config

IV. Backing Services

V. Build, Release, Run

VI. Processes

VII. Port Binding

VIII. Concurrency

IX. Disposability

X. Dev/Prod Parity

XI. Logs

XII. Admin Processes