

# **Python for Cloud services and Infrastructure management**

# Agenda

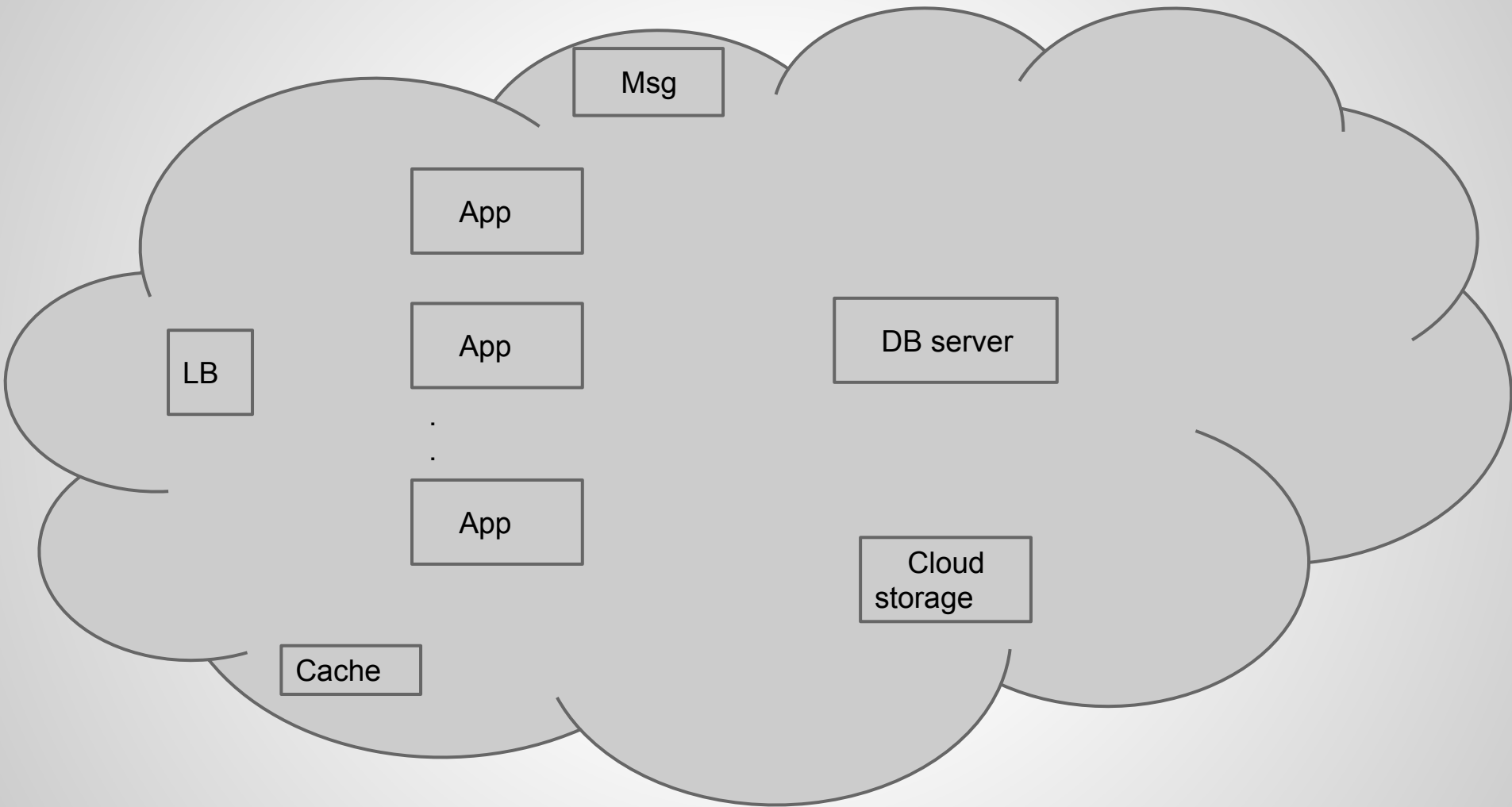
# Python friendly services & Infrastructure practices

# Things we use at Azoï

# Deployment and configurations

# Cloud for almost any web solution

- Load balancer
- App server
- Webserver
- DB server
- Internal Messaging
- Caching [Front end cache, backend cache]
- Distributed tasks
- Cloud storage [ files, etc.]



# Deciding cloud infrastructure

- # Identify Usage

- # Identify performance requirement

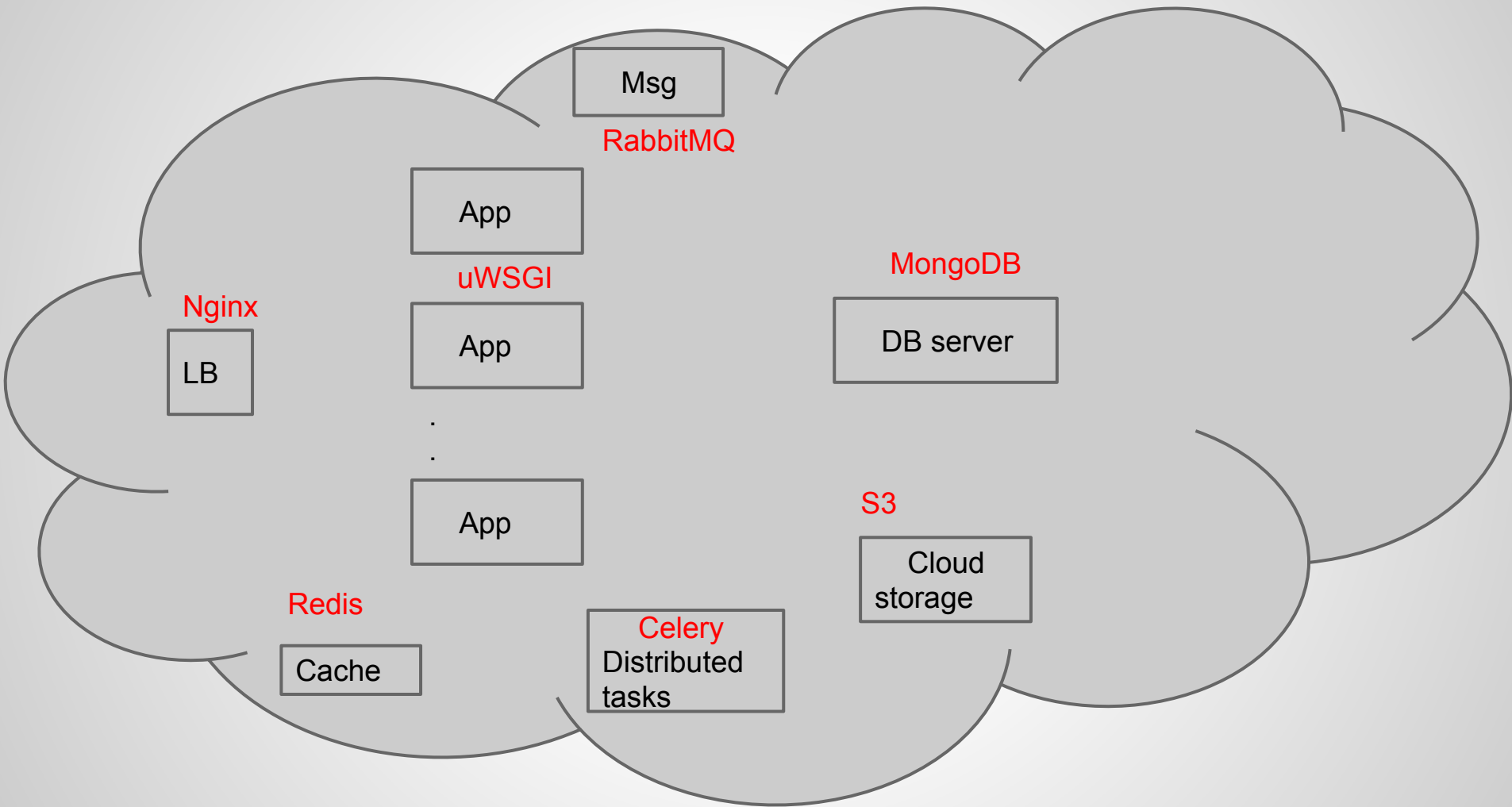
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- # Derive cloud instances requirement

- # Derive tools and technologies required

# Cloud

- # Load balancer - Nginx/ ELB/ HAProxy
- # App server - uWsgi
- # Webserver - nginx
- # DB server - MongoDB
- # Internal Messaging - RabbitMQ
- # Caching - MemcacheD / Redis
- # Distributed tasks - Celery
- # Cloud storage [ images, media, etc.] - S3



# @ Azoï, we use

# Load balancer - Nginx

# App server - uWsgi

# Webserver - nginx

# DB server - NoSQL [MongoDB] and SQL [Postgres]

# Internal Messaging - RabbitMQ

# Caching - Memcached / Redis

# Distributed tasks - Celery

# Cloud storage [ files, etc.] - S3

# Monitoring - Nagios, Cloudwatch

# Logging - Sentry [ good match with Python based framework, we use Django ]



# #deployment and configurations

' ' ' Also need to identify suitable tools for deployment and configurations. ' ' '

@Azoi, we use **Fabric** for App deployment and admin tasks, advantage of writing deployment script in python.

We use **Jenkins** for integration.

# Thank you