

# Datacenter to Cloud

# 4 Shifts in Architecture

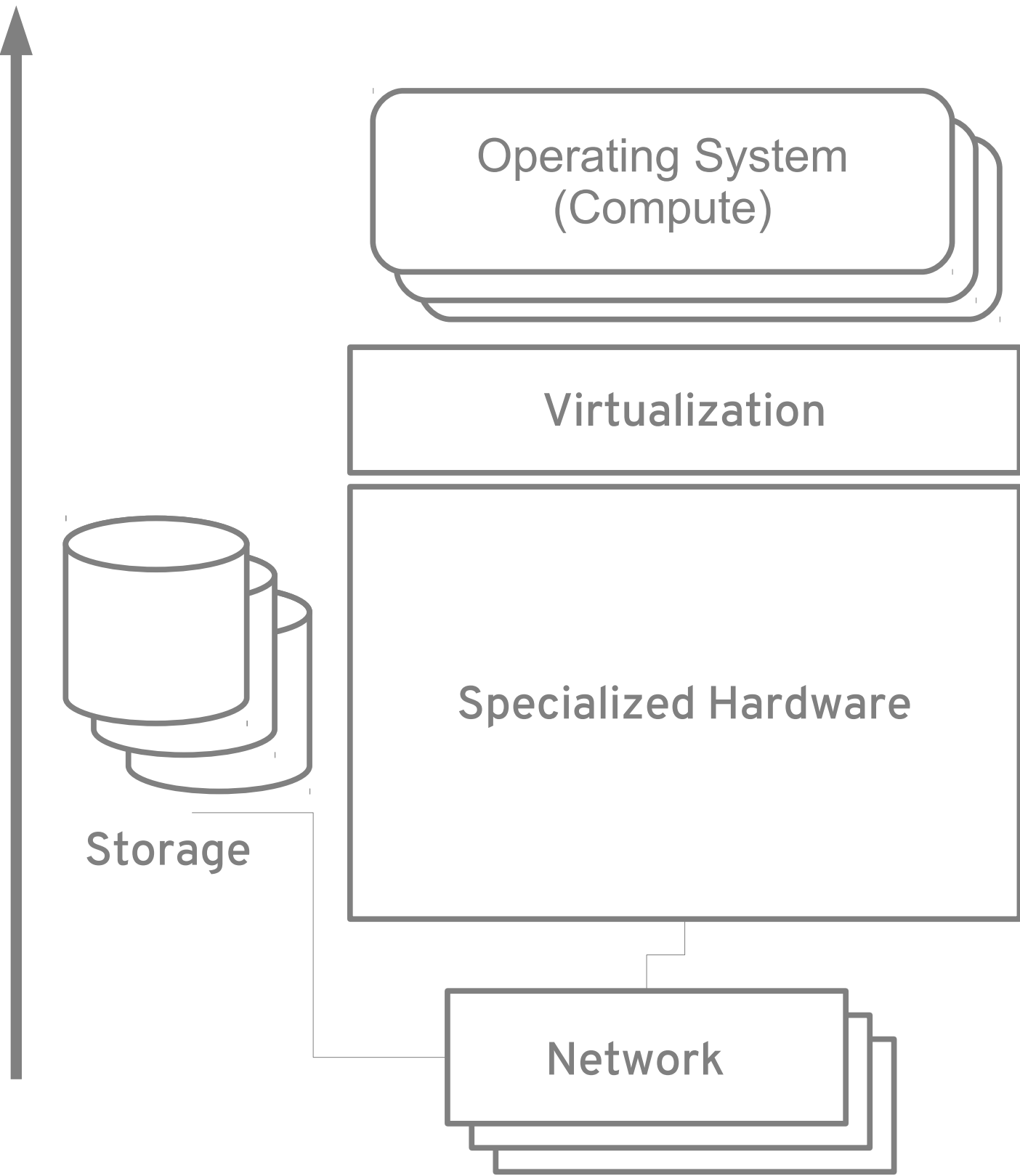
Infrastructure

Platform

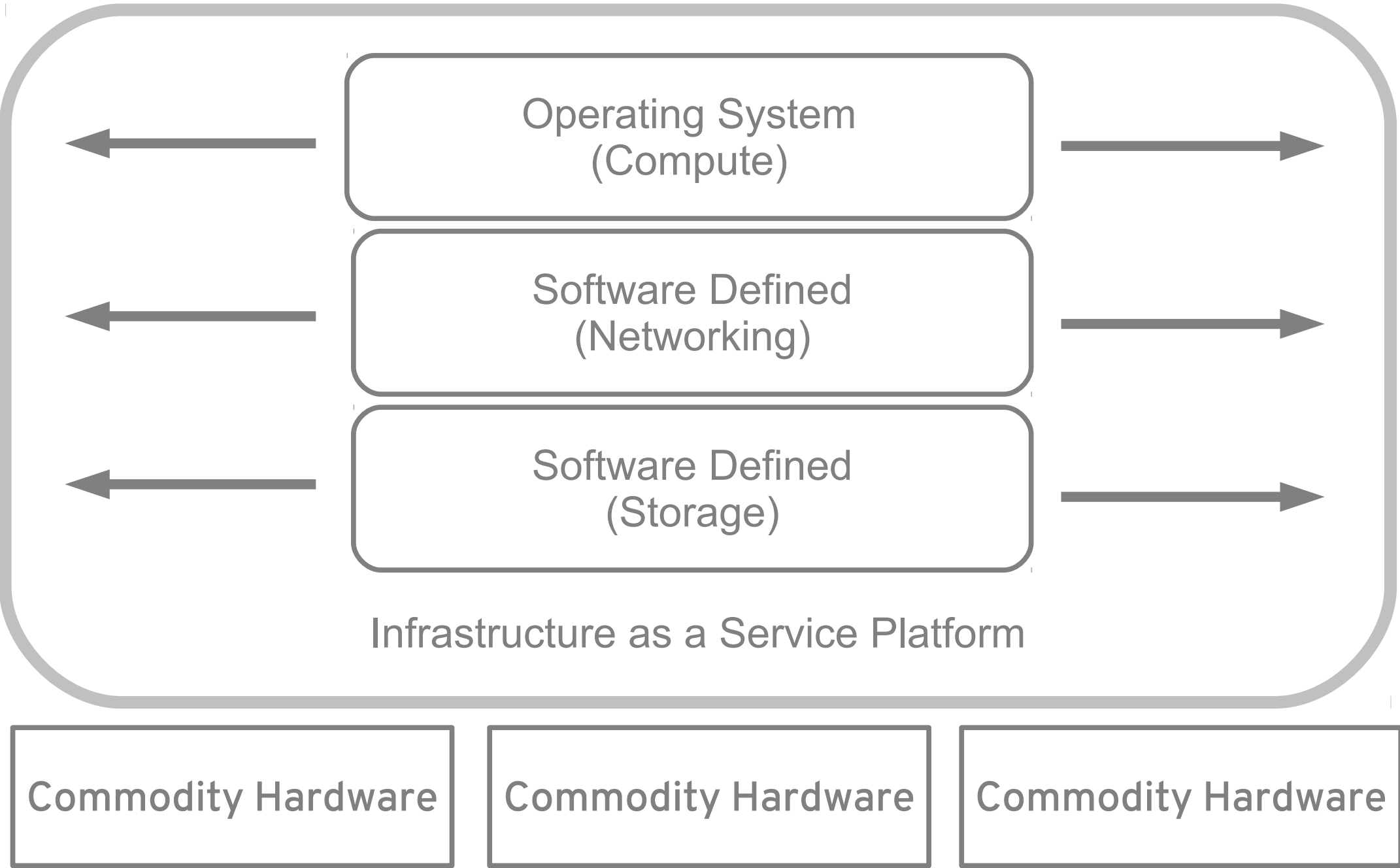
Business and Middleware Services

IT Operations Management

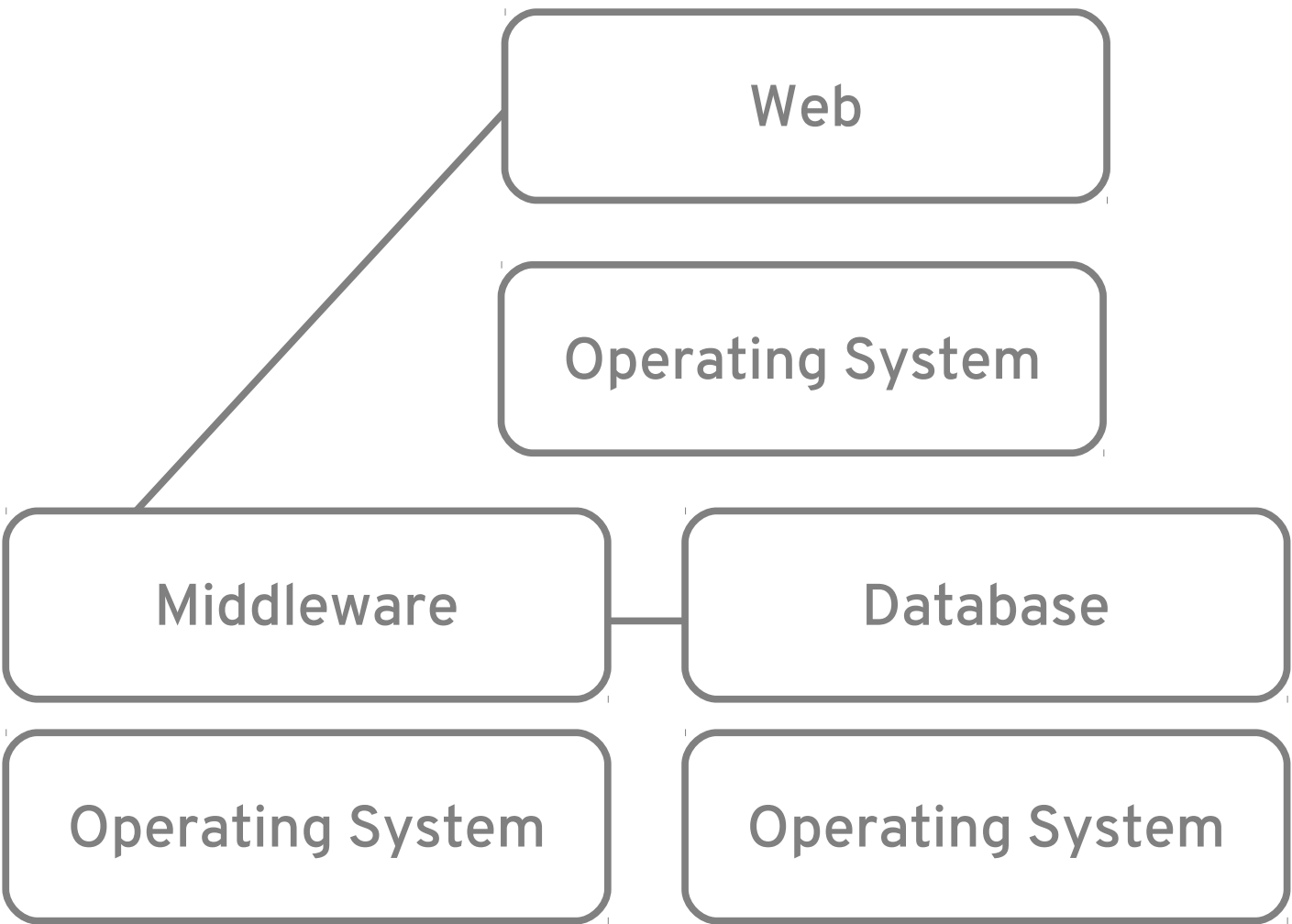
# Infrastructure



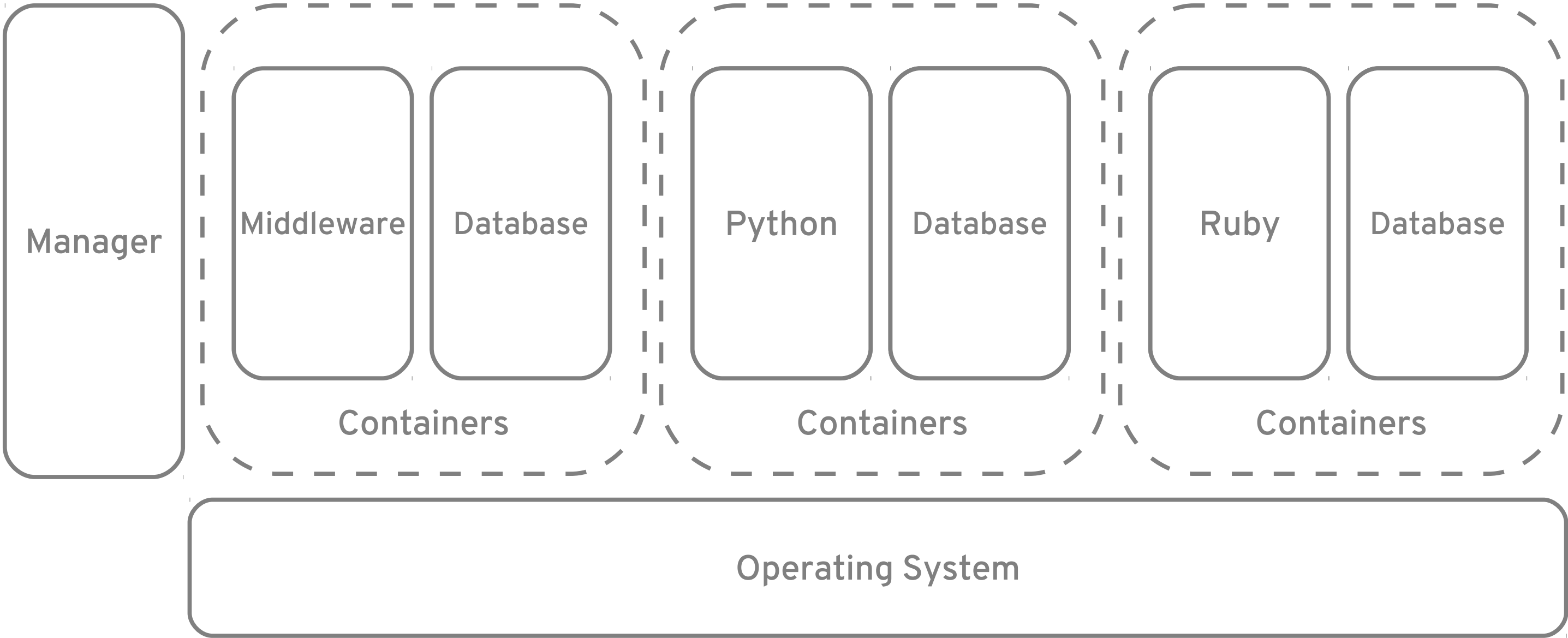
# Infrastructure as a Service



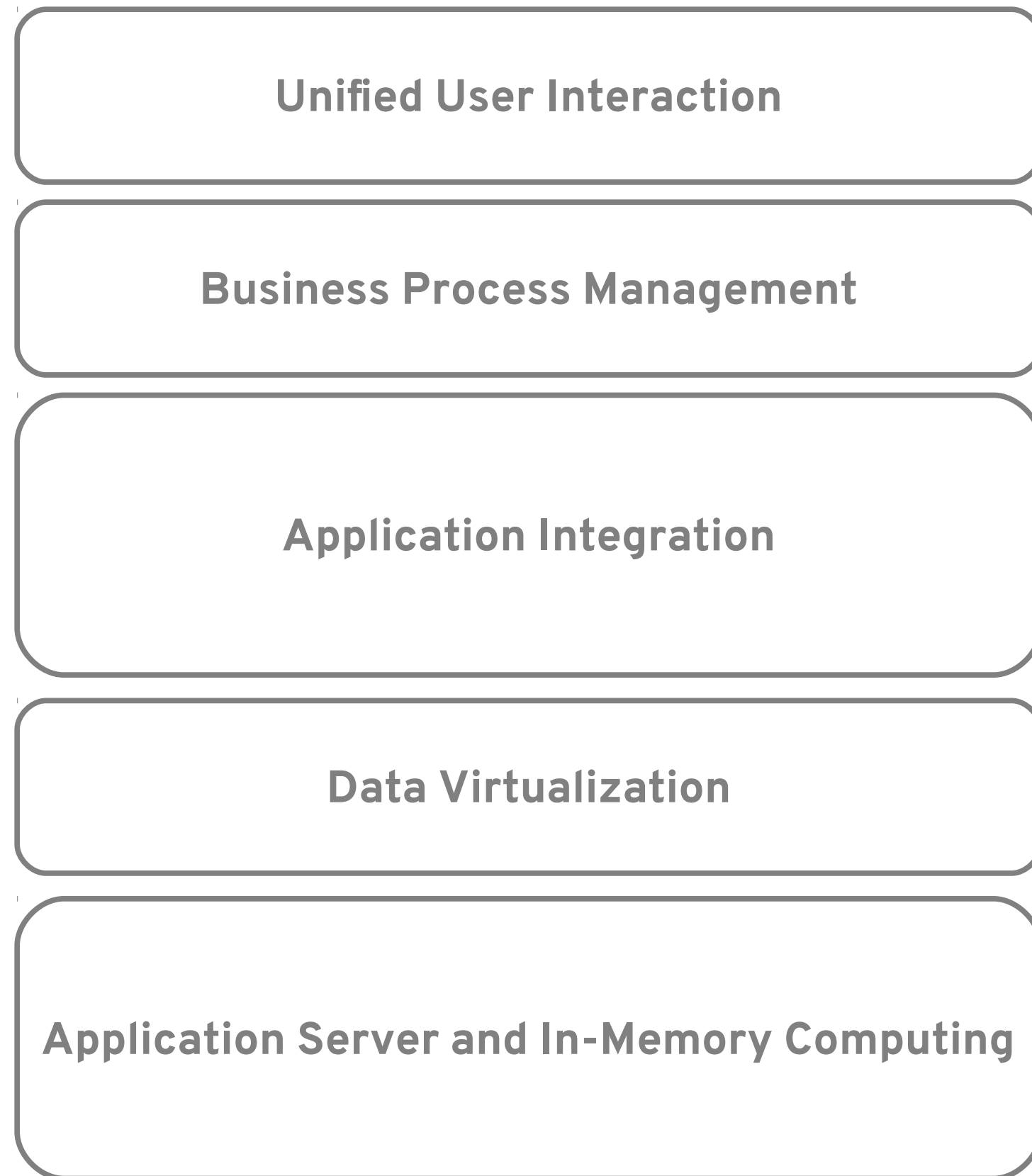
# Platform



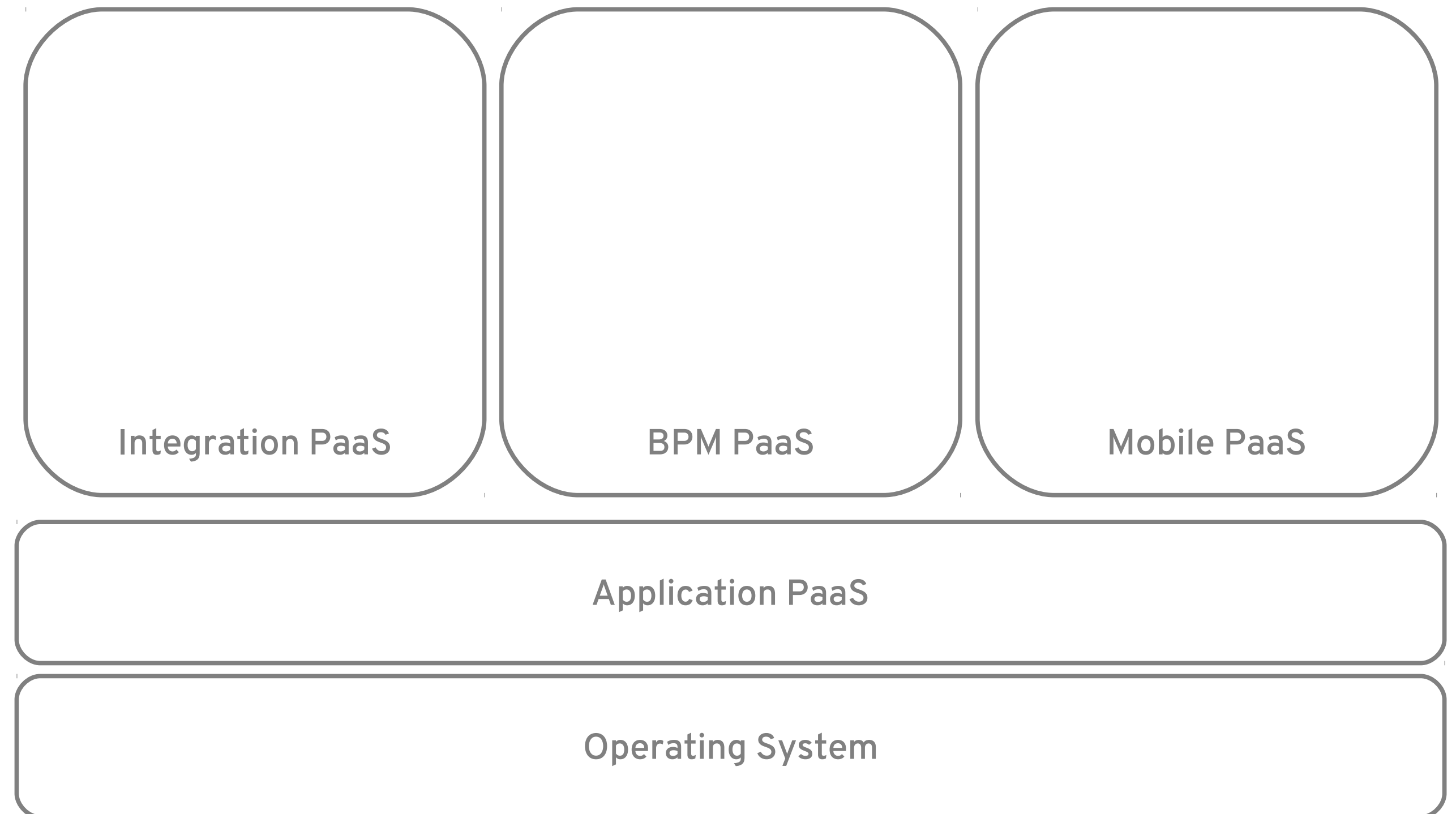
# Application Platform as a Service



## Business and Middleware Services



## X Platform as a Service

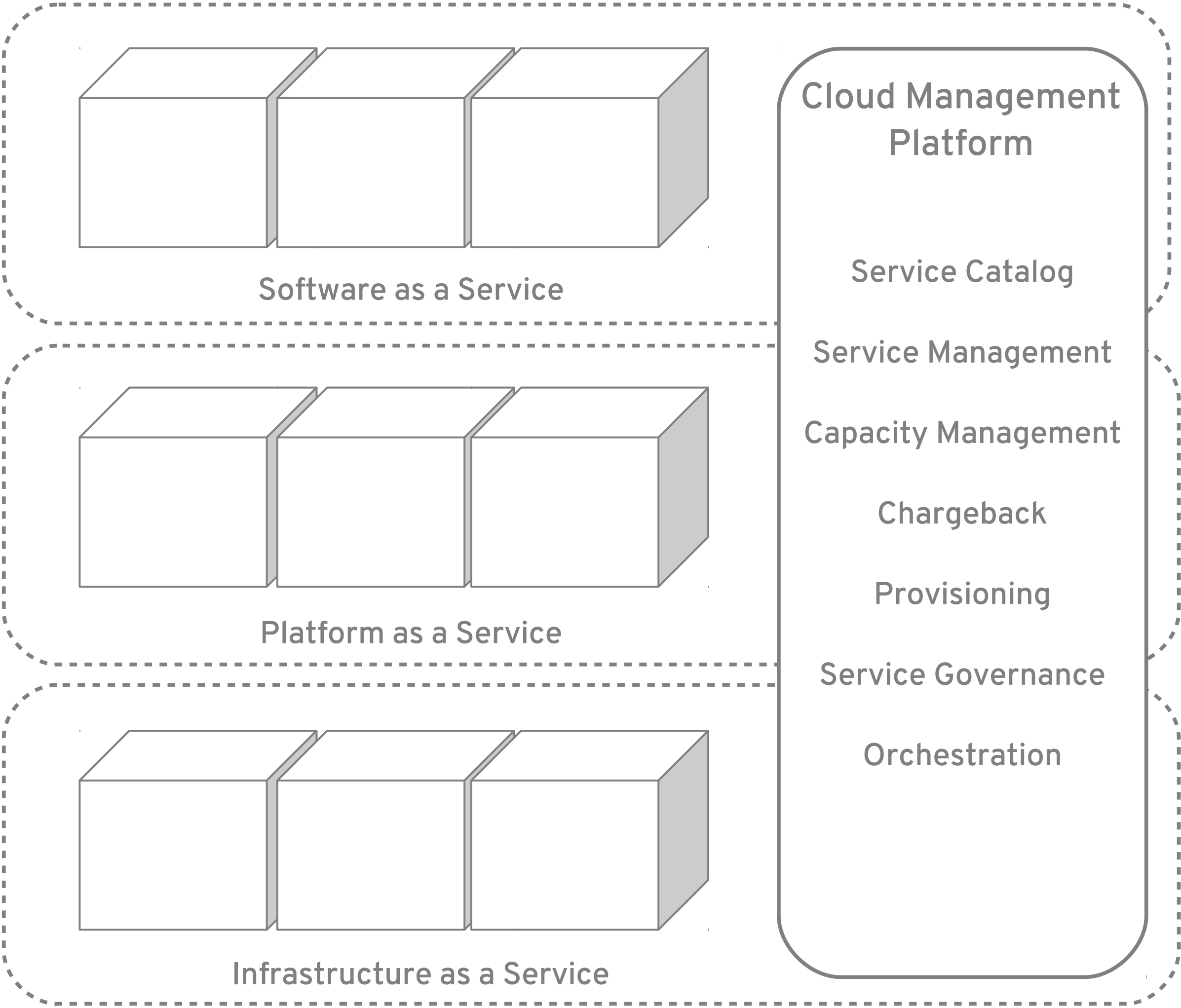


# IT Operations Management Tools

Service Catalog	Service Management	Chargeback
Capacity Management	CMDB	Asset Management
Service Desk	Availability and Performance Monitoring	Configuration Management



# Cloud Management Platform

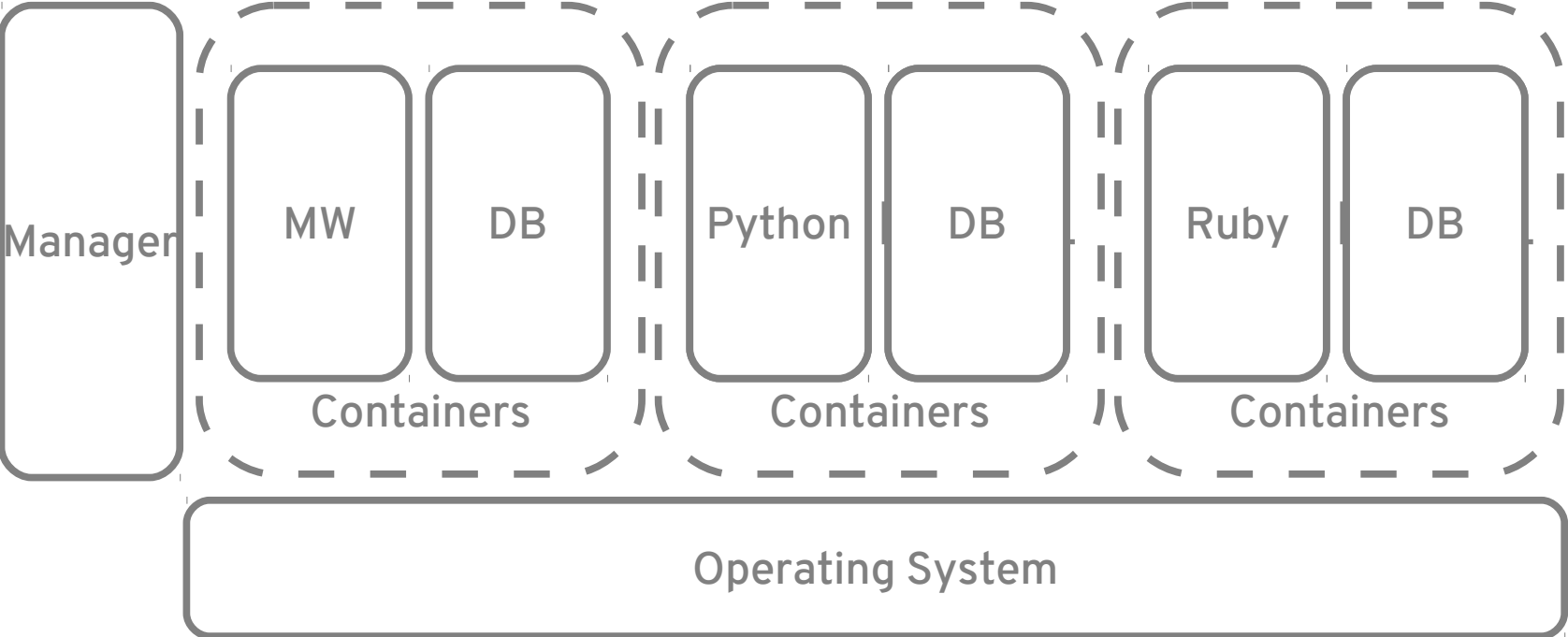


Open Cloud

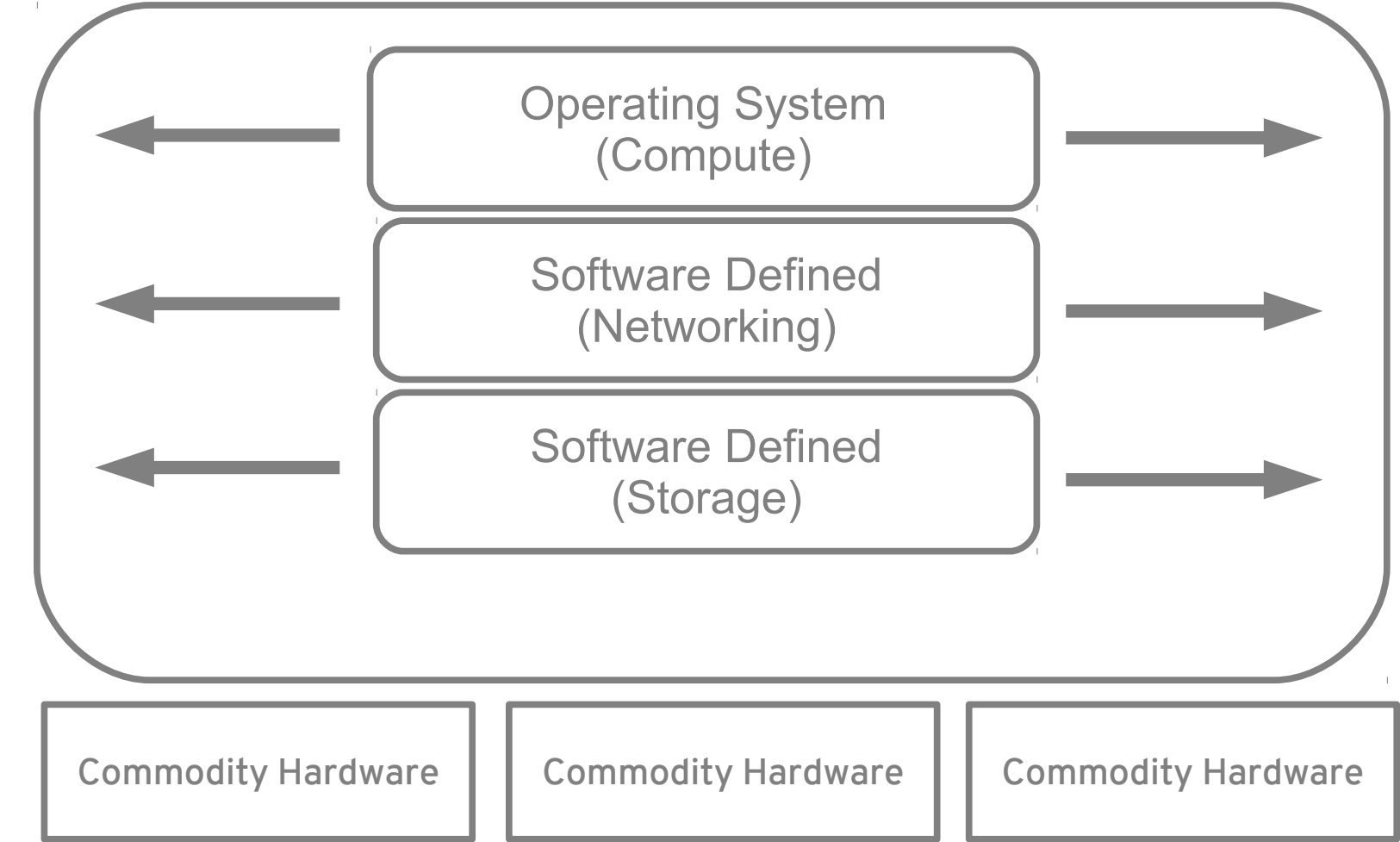
xPaaS



aPaaS



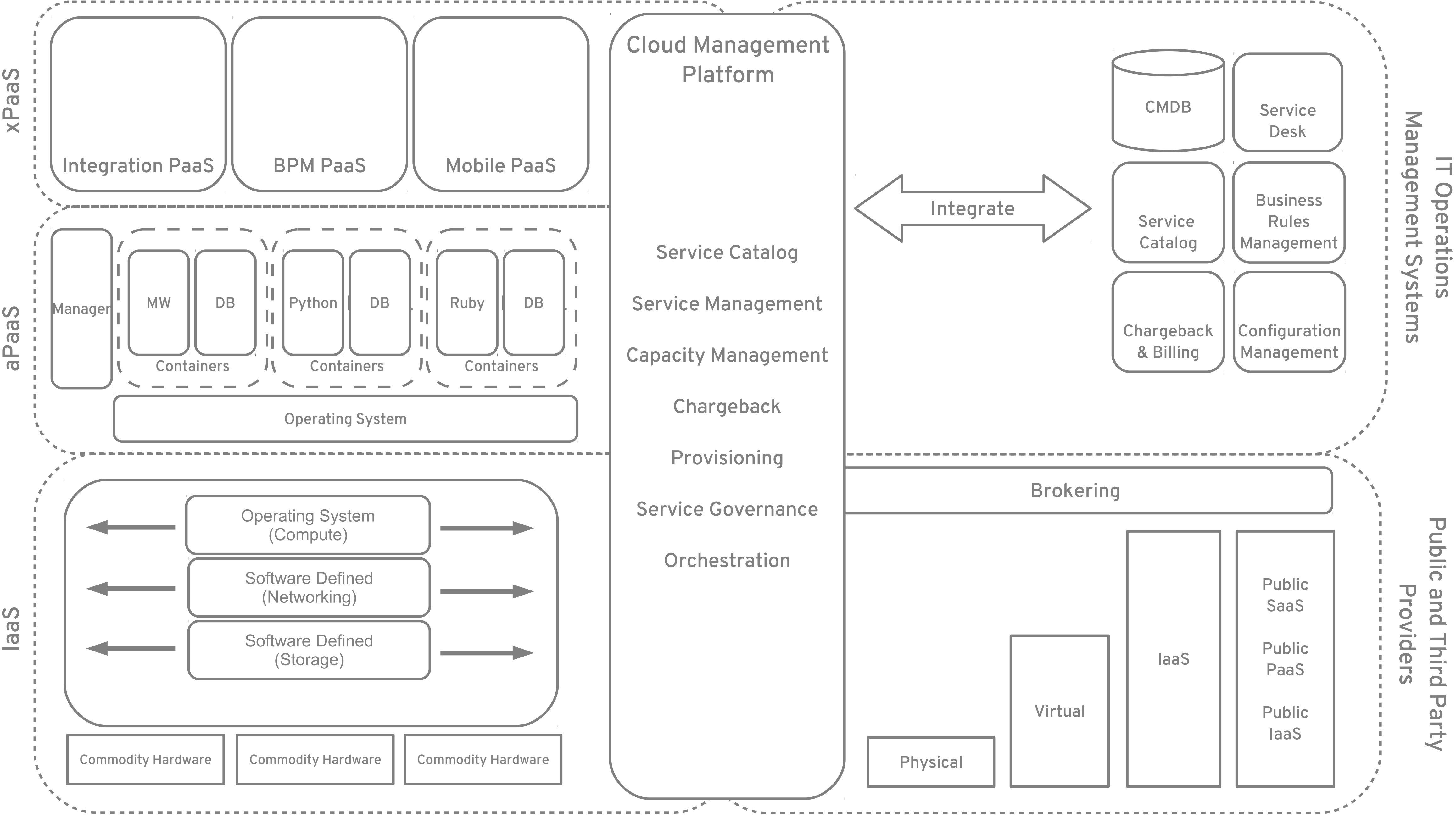
IaaS



Cloud Management Platform

Service Catalog  
Service Management  
Capacity Management  
Chargeback  
Provisioning  
Service Governance  
Orchestration

# Open Hybrid Cloud



**What about the workloads?**

Open Hybrid Cloud is presenting new methods for managing the lifecycle of workloads to provide:

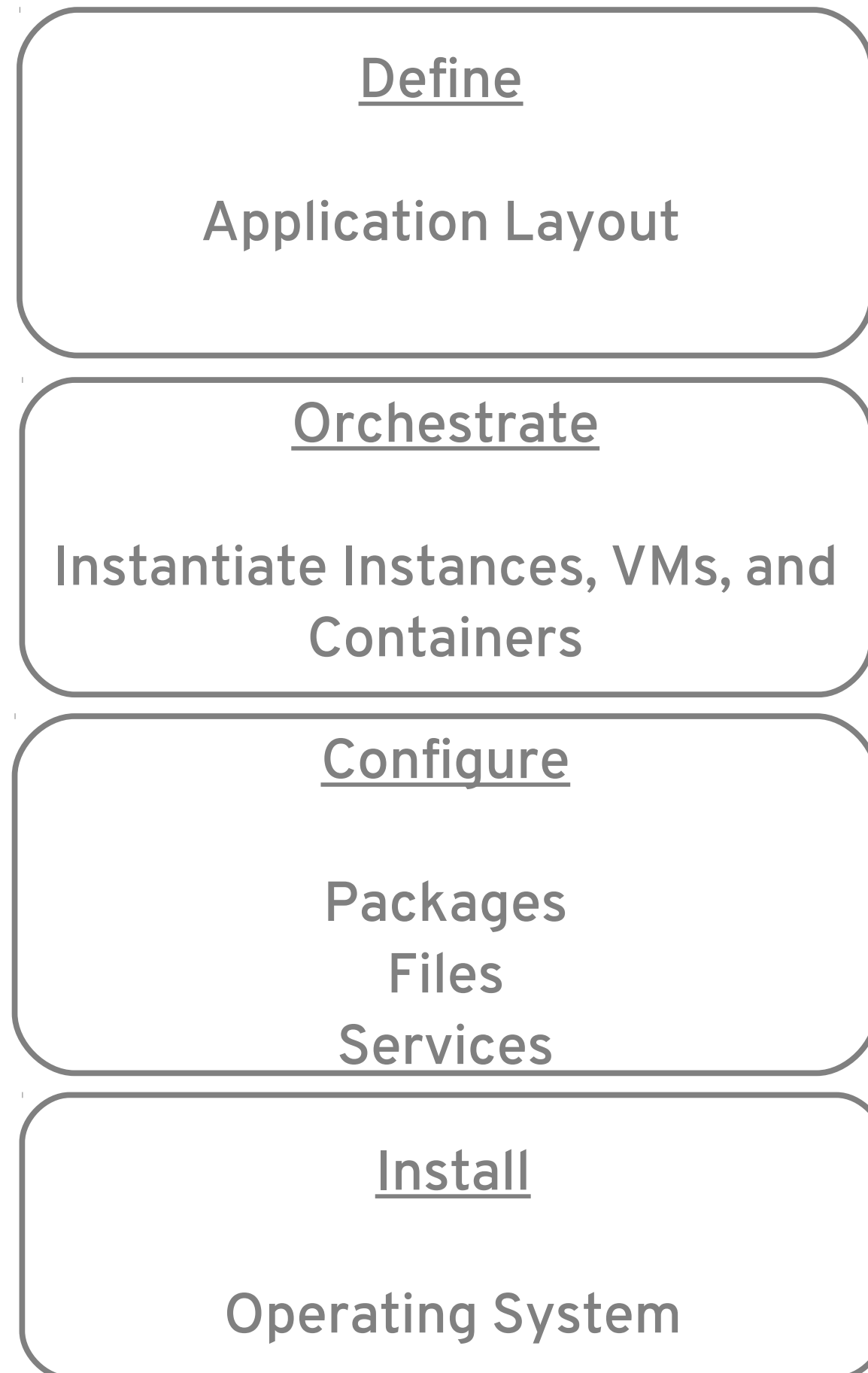
Faster Instantiation

Auto-scaling

Application recovery

Greater portability

## 1 Discover the Patterns

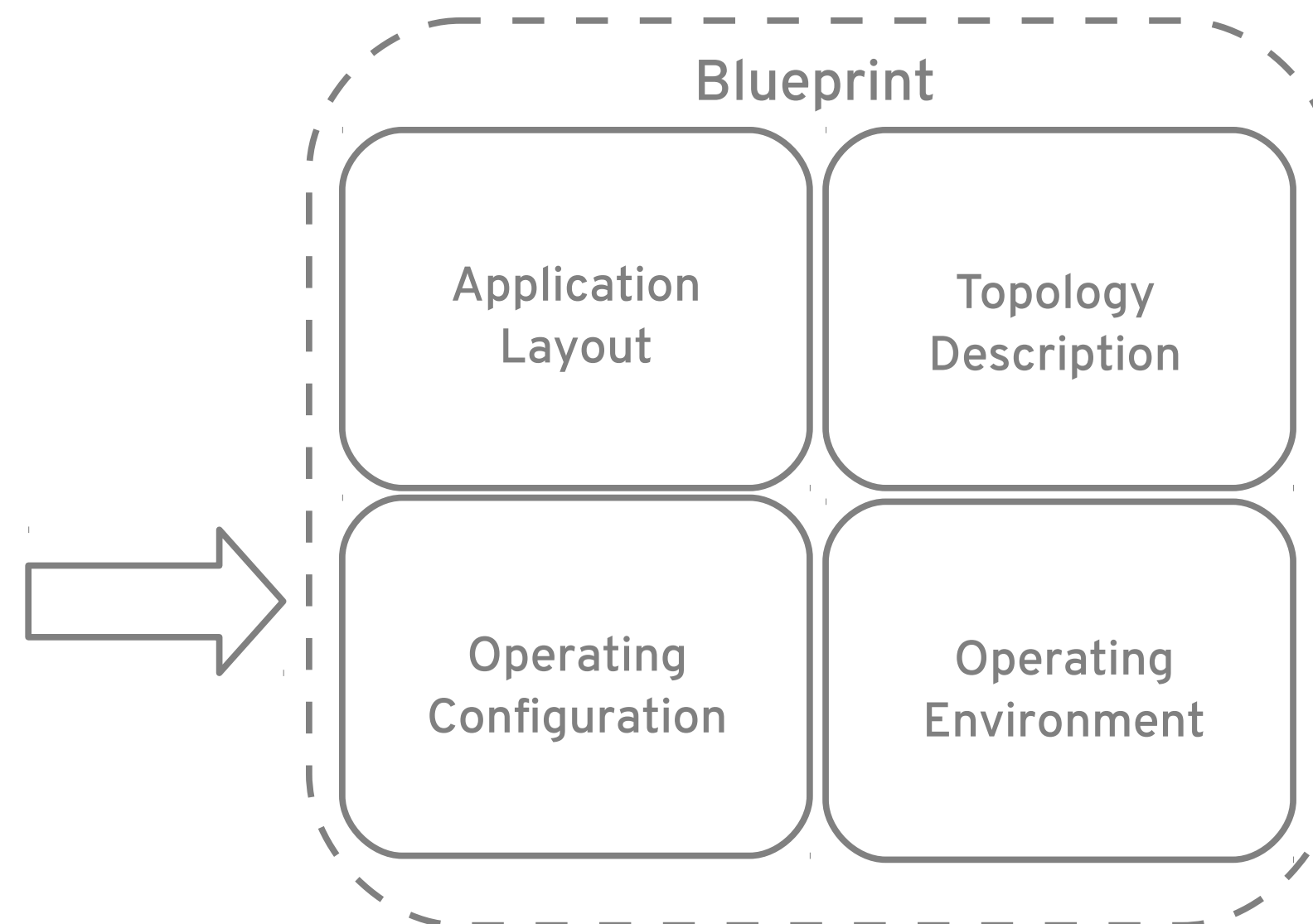


## 2 Build Blueprint Using Workflow

First Step in Datacenter Automation

Reduce manual processes and human error

Provide self-service to capture users

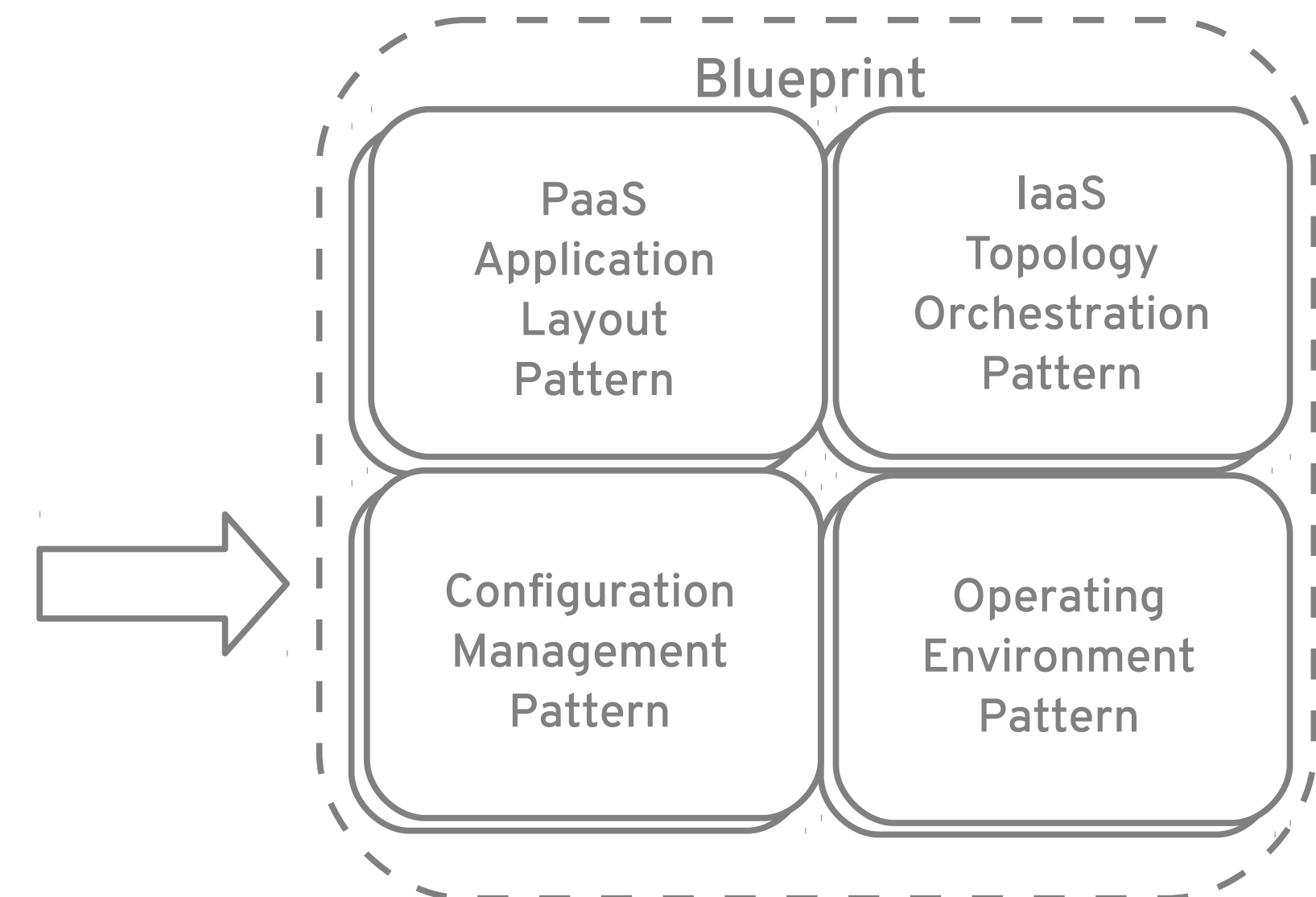


## 3 Add Cloud Platform Patterns To Blueprint

Evolution from Datacenter Automation to Cloud Automation

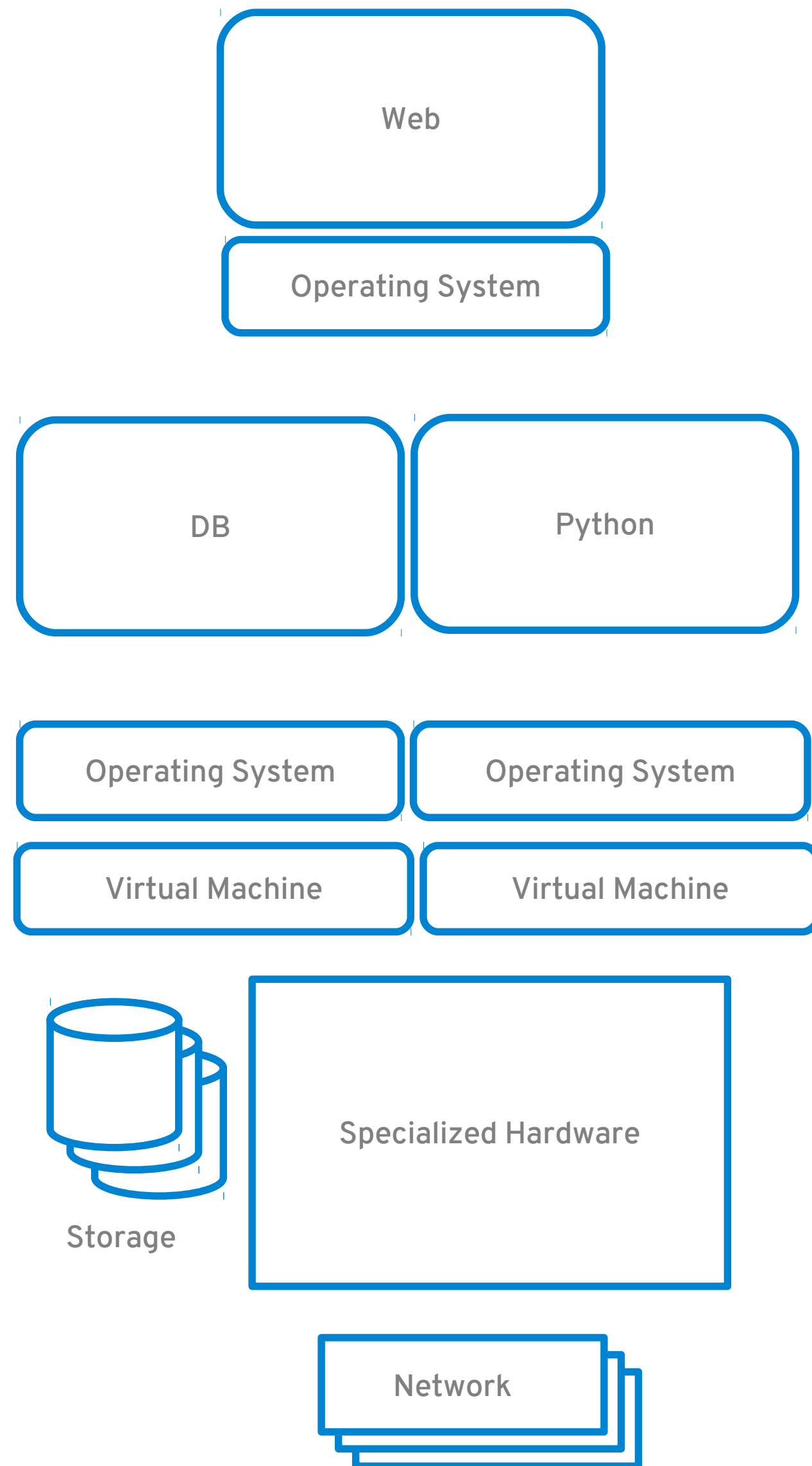
Provide greater resiliency

Greater native functionality such as auto-scaling and recovery

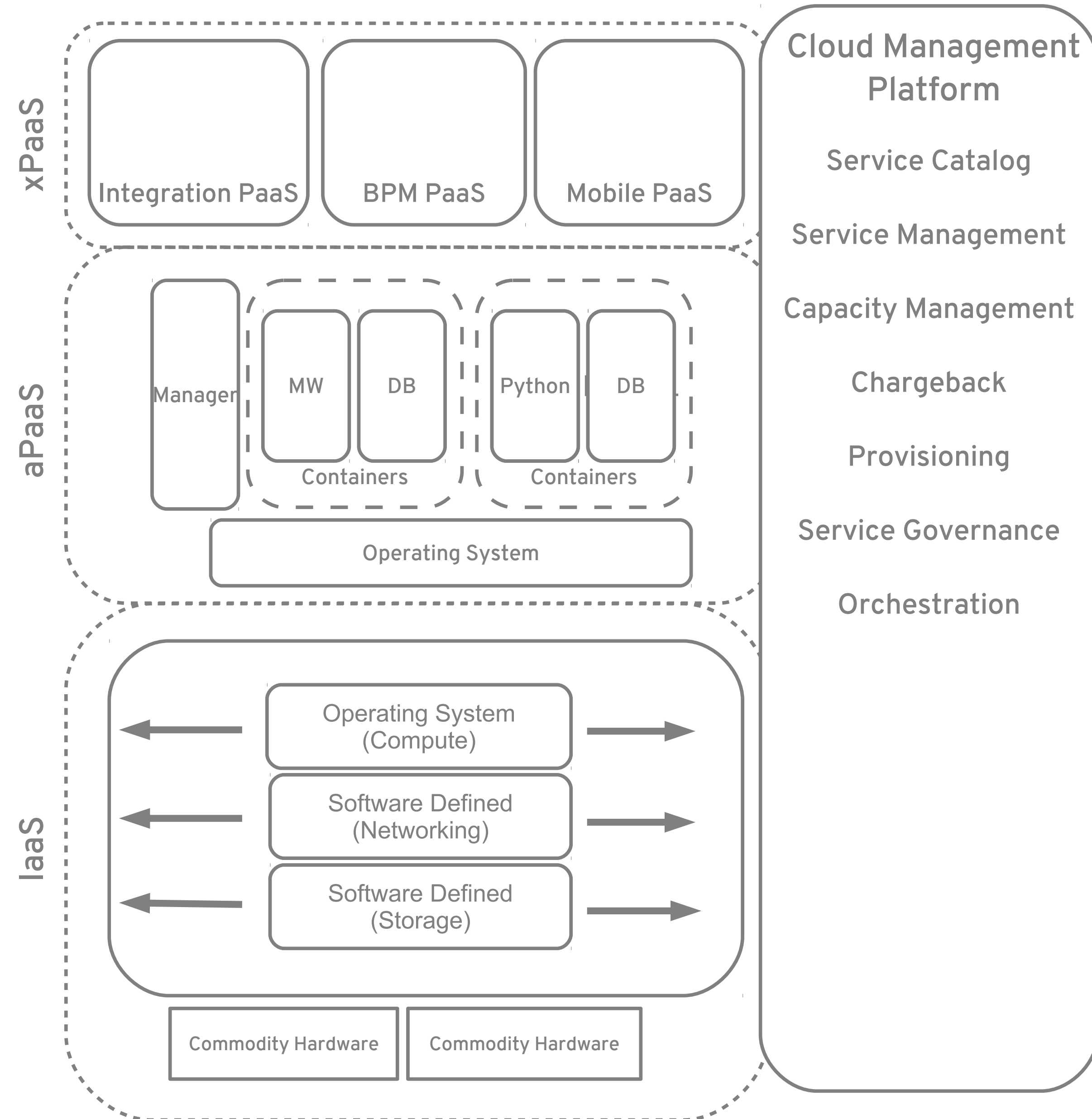


# Discover the Pattern

## Traditional Platforms

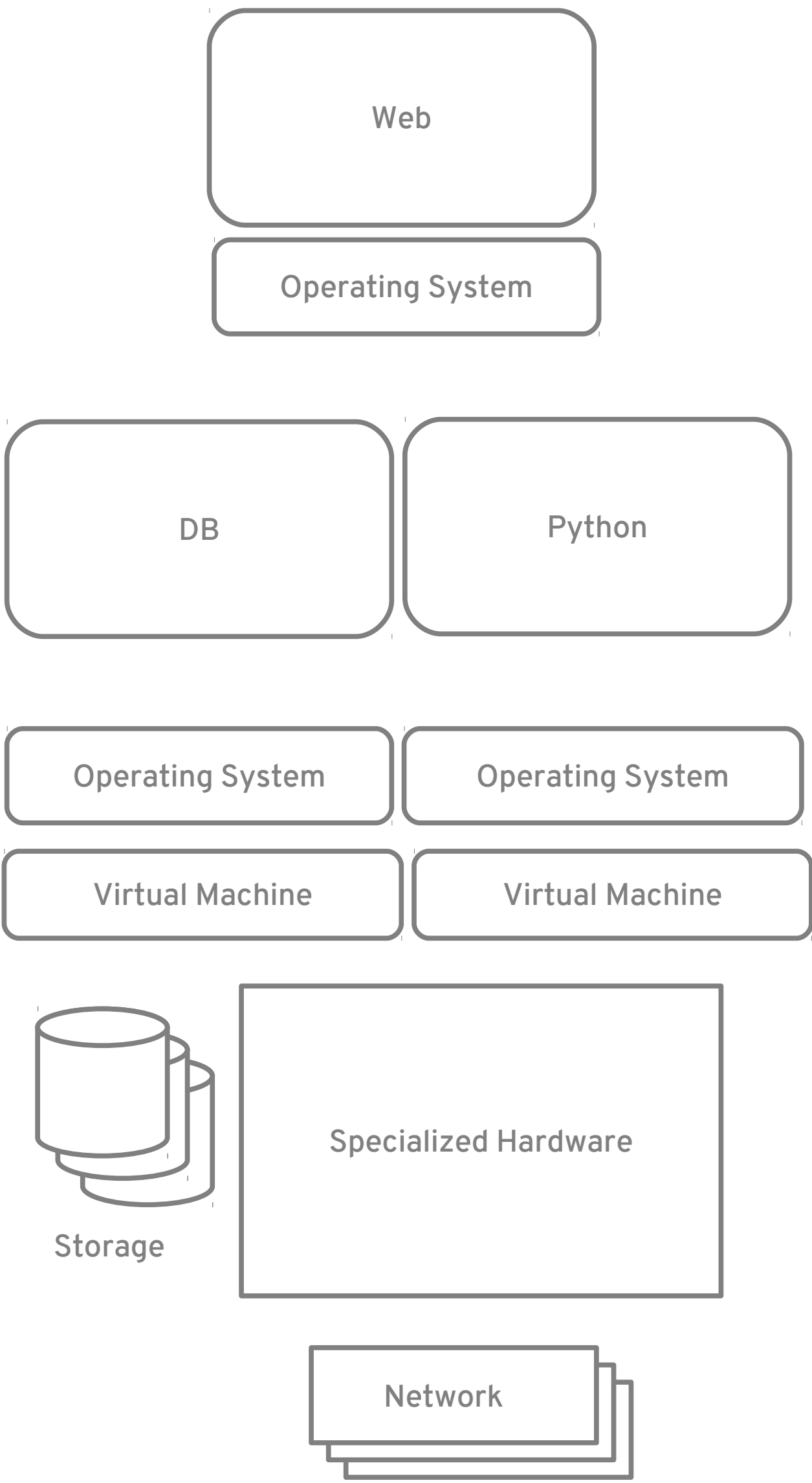


## Cloud Platforms

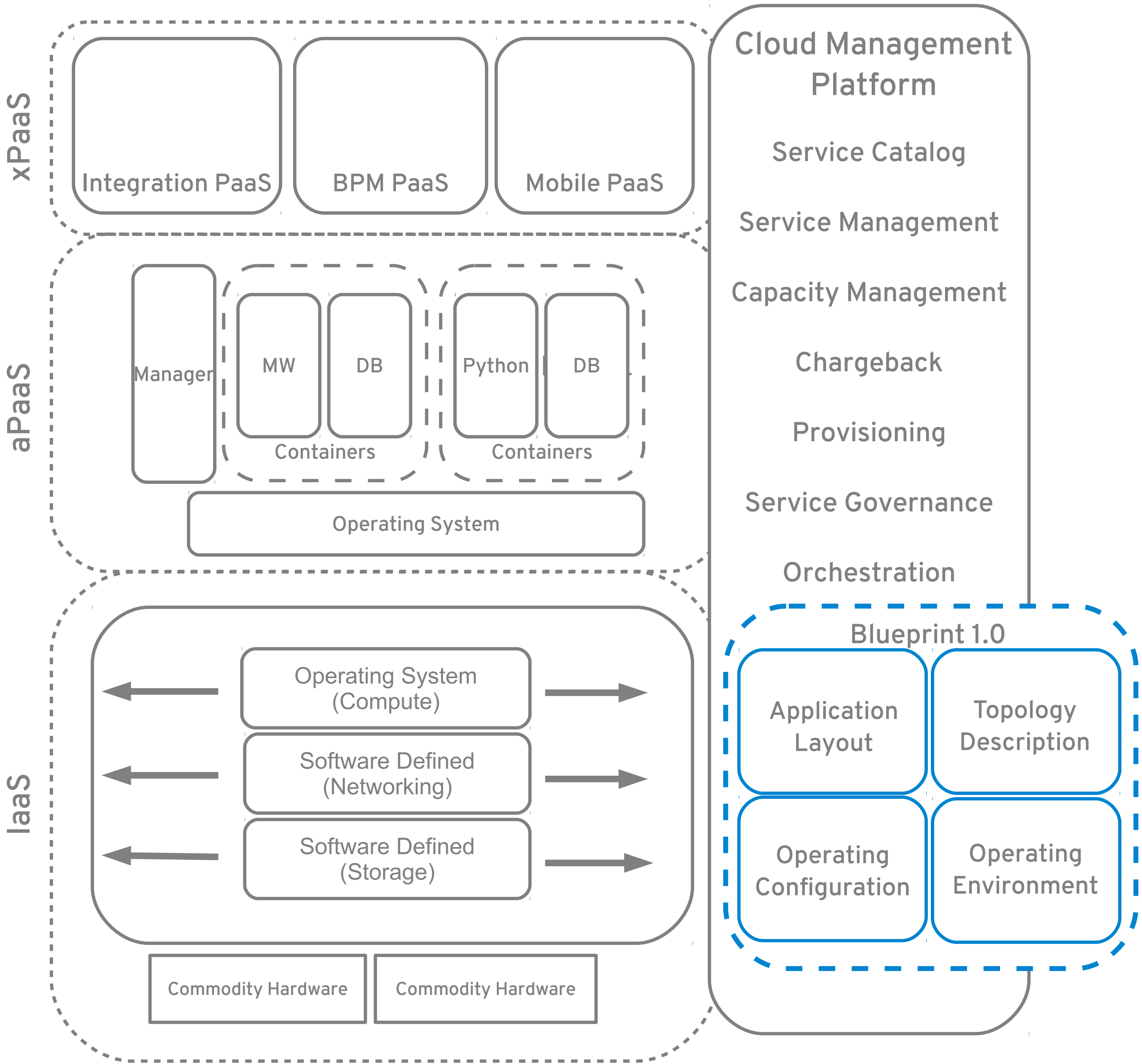


# Create the Workflow

## Traditional Platforms

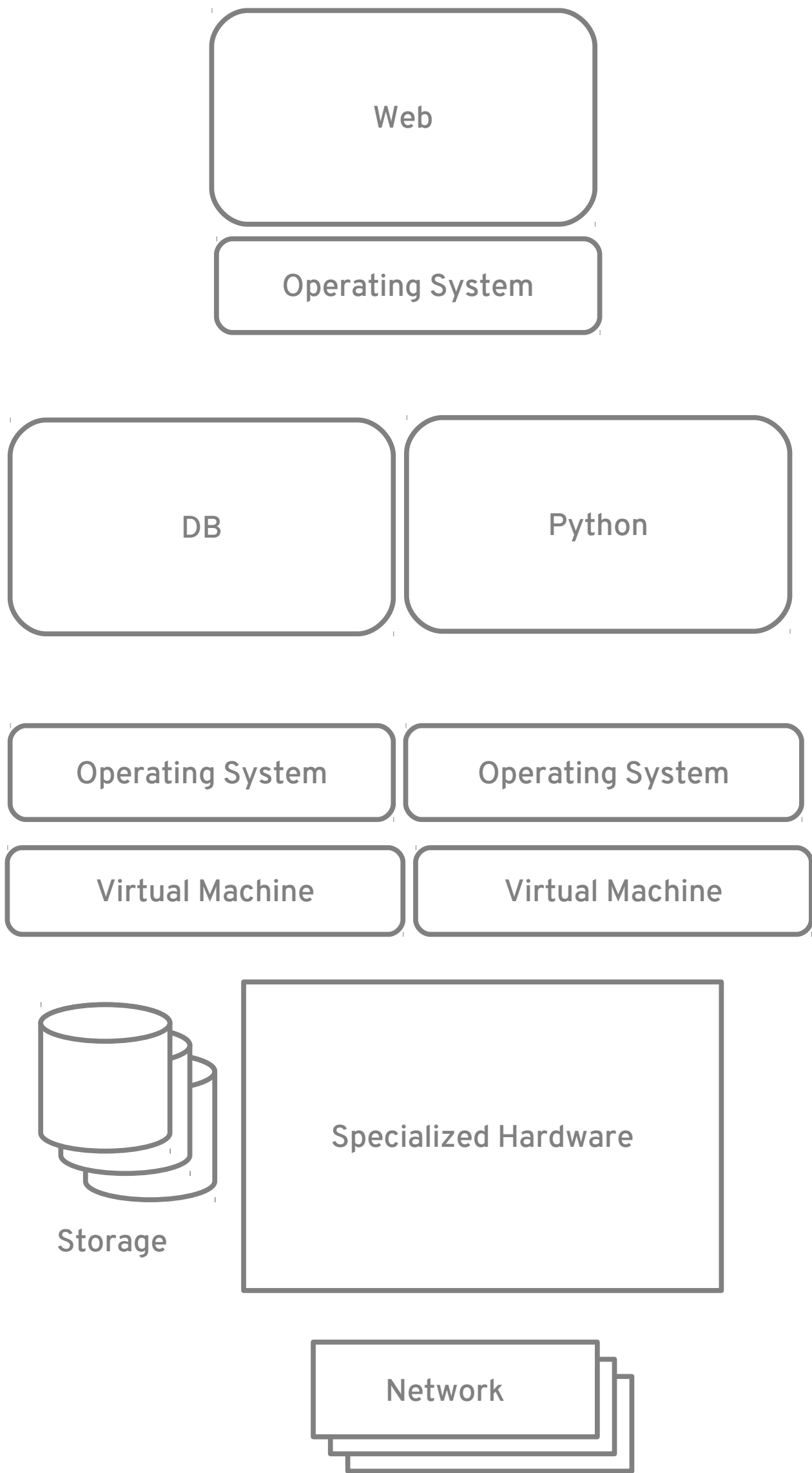


## Cloud Platforms

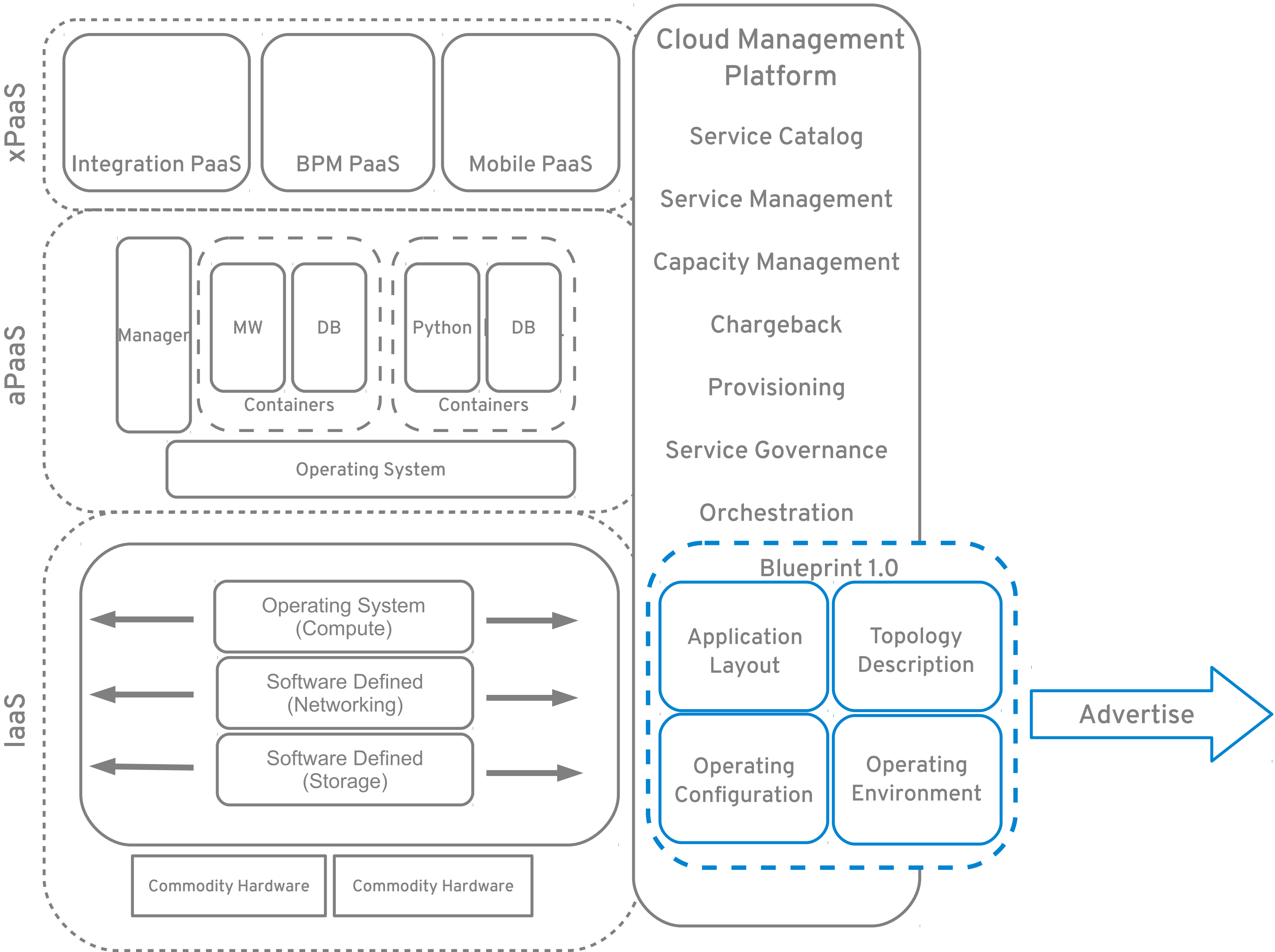


# Advertise the Blueprint

## Traditional Platforms

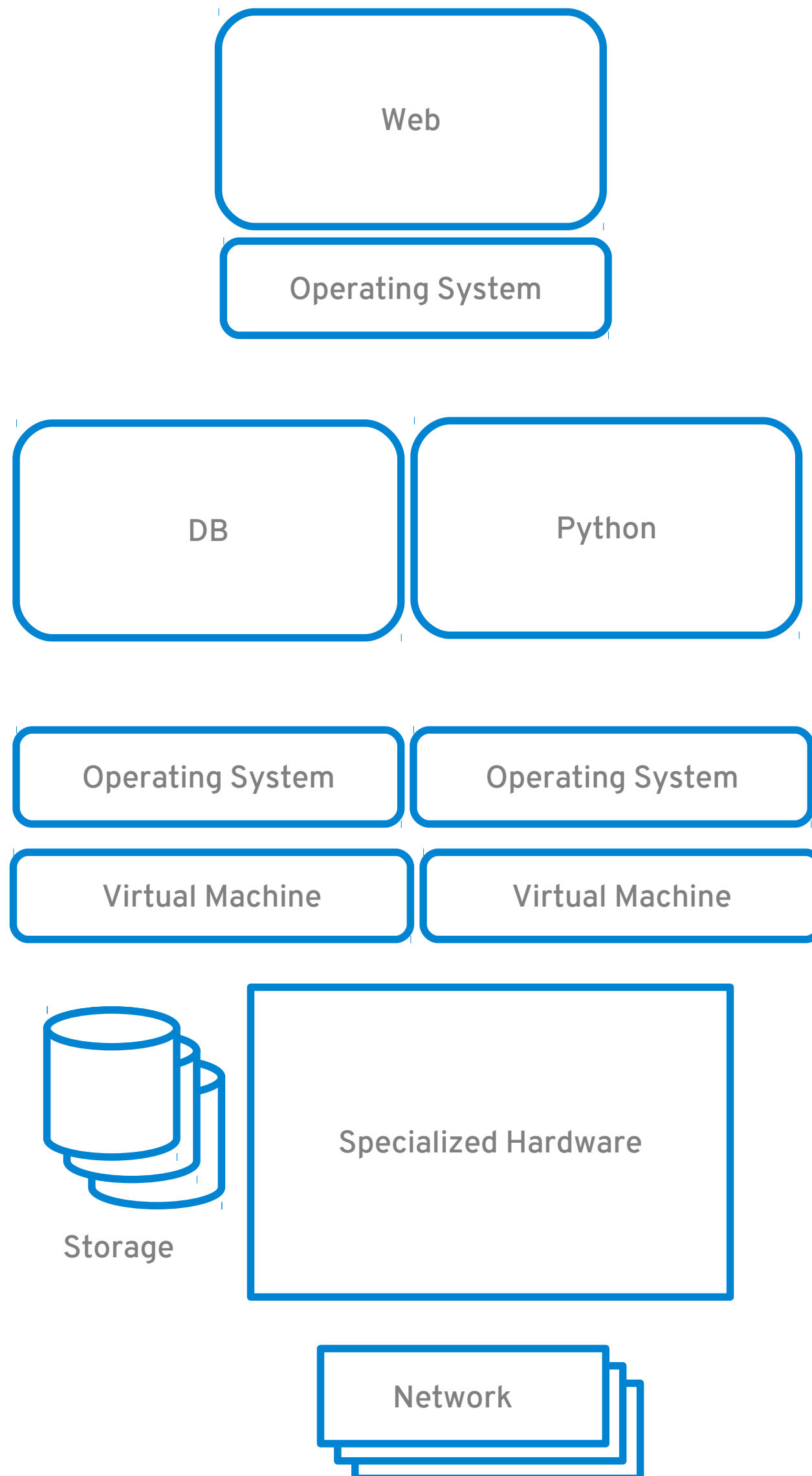


## Cloud Platforms

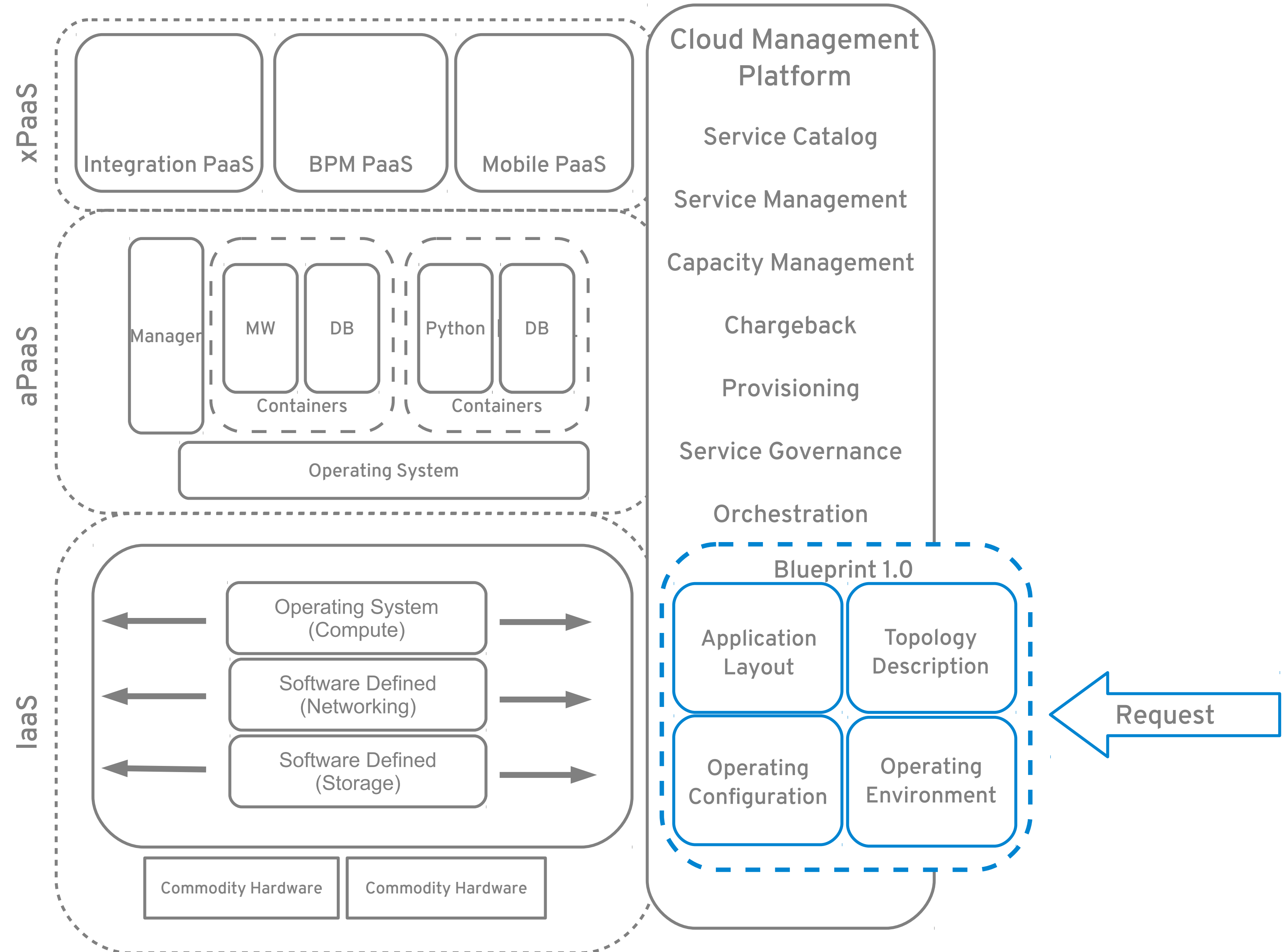


# Automate Deployments on Traditional Platforms with Workflow

## Traditional Platforms

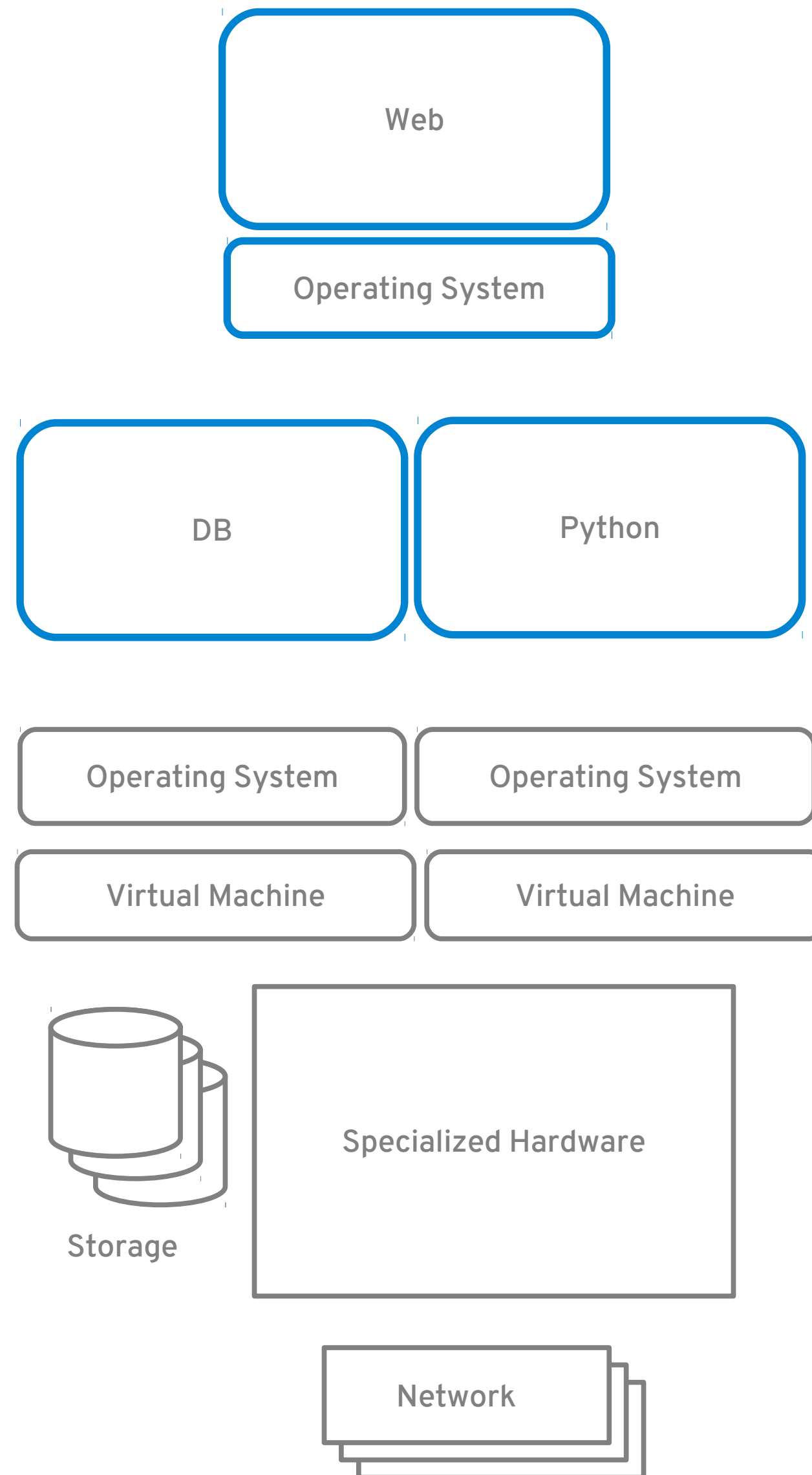


## Cloud Platforms

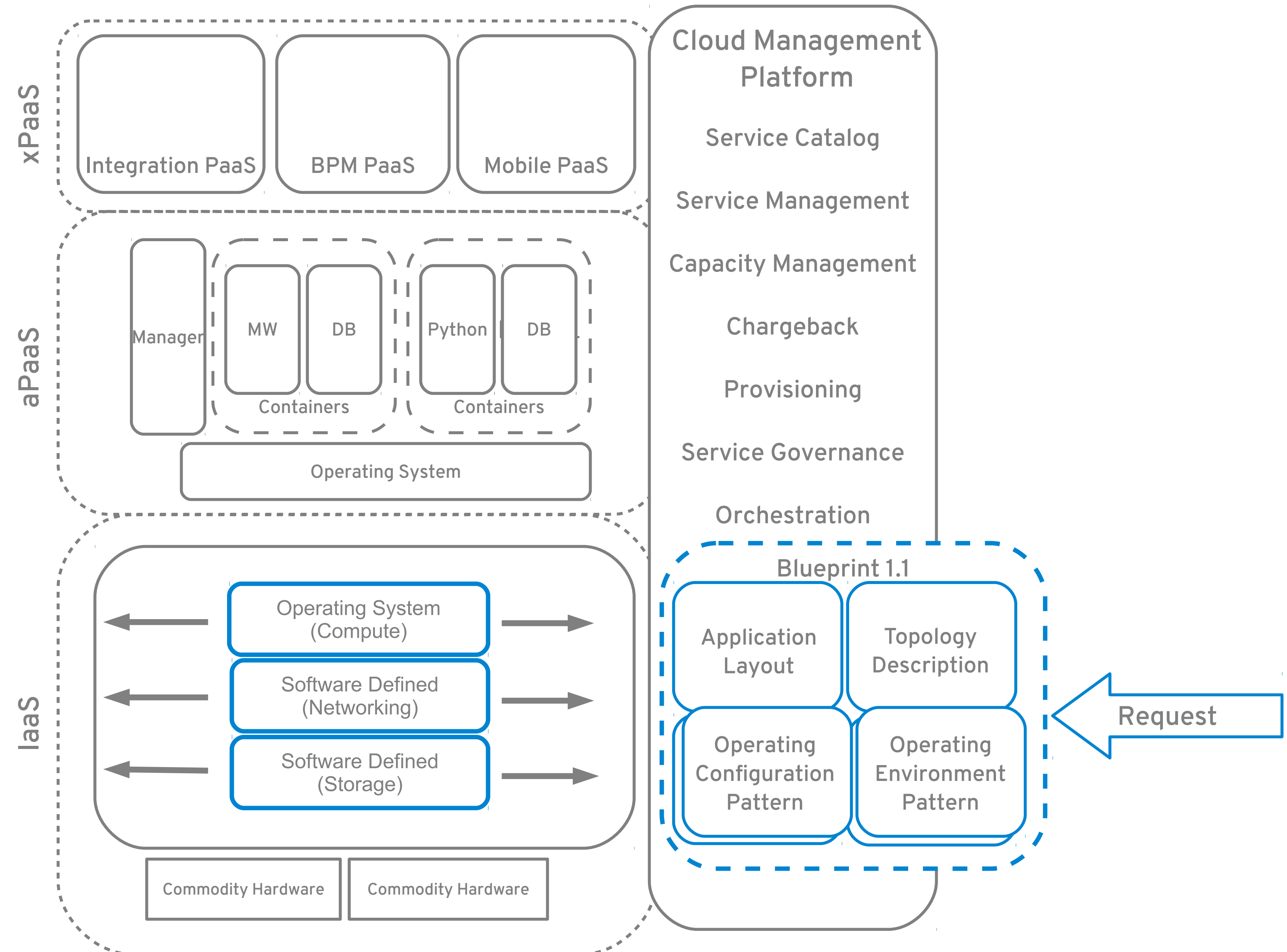


# Evolve Deployment to Cloud Platforms with Patterns

## Traditional Platforms

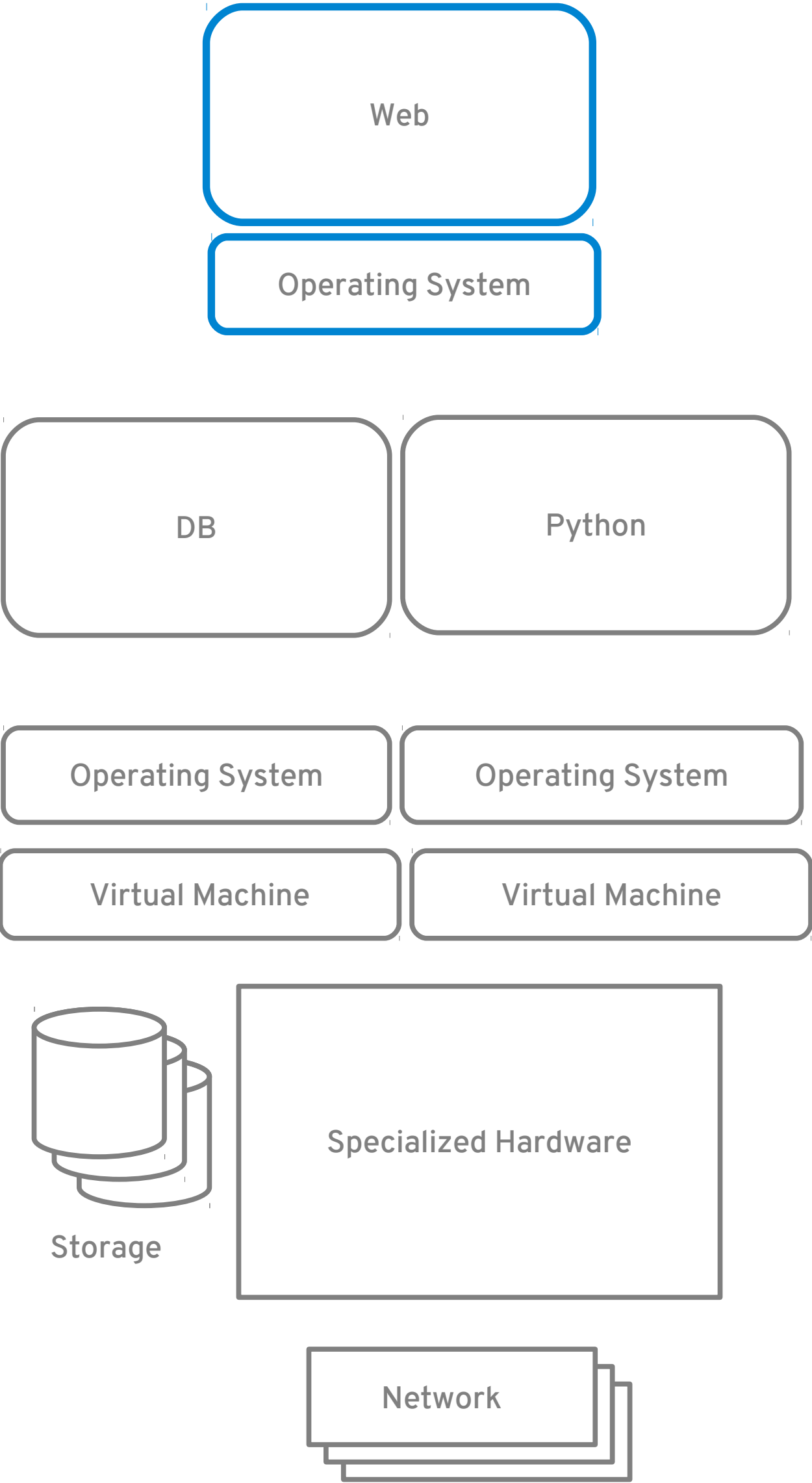


## Cloud Platforms

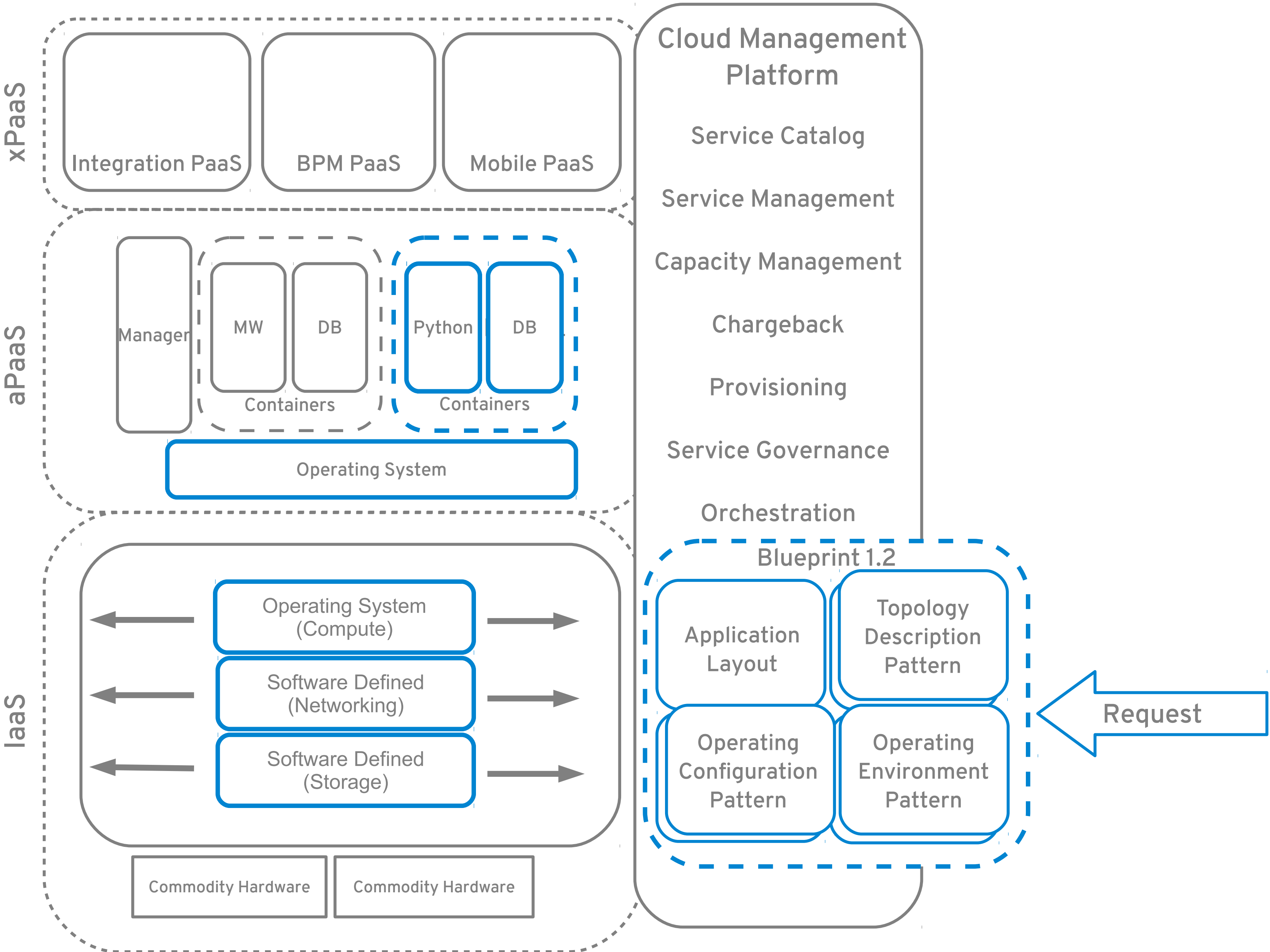


# Evolve Deployment to Cloud Platforms with Patterns

## Traditional Platforms

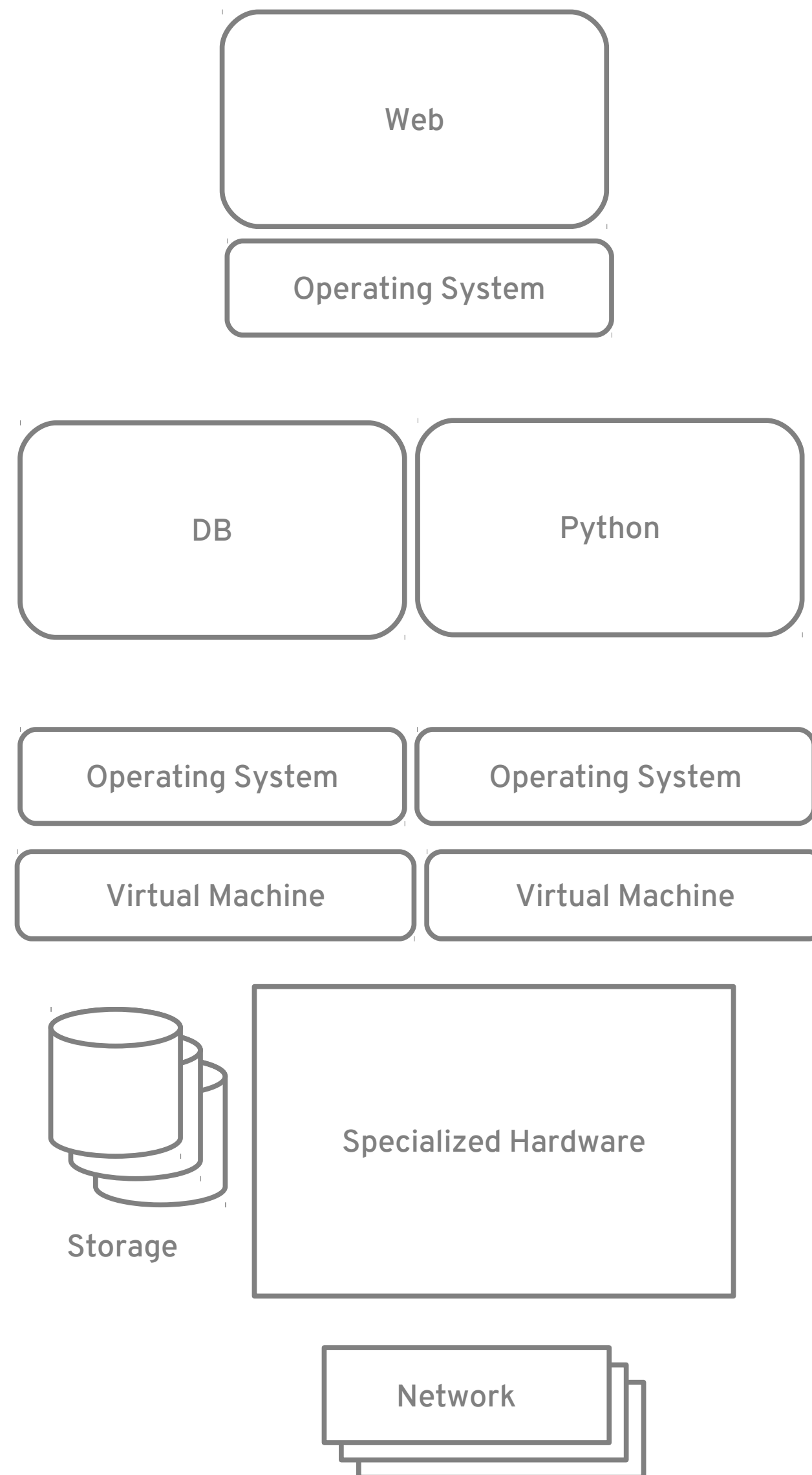


## Cloud Platforms

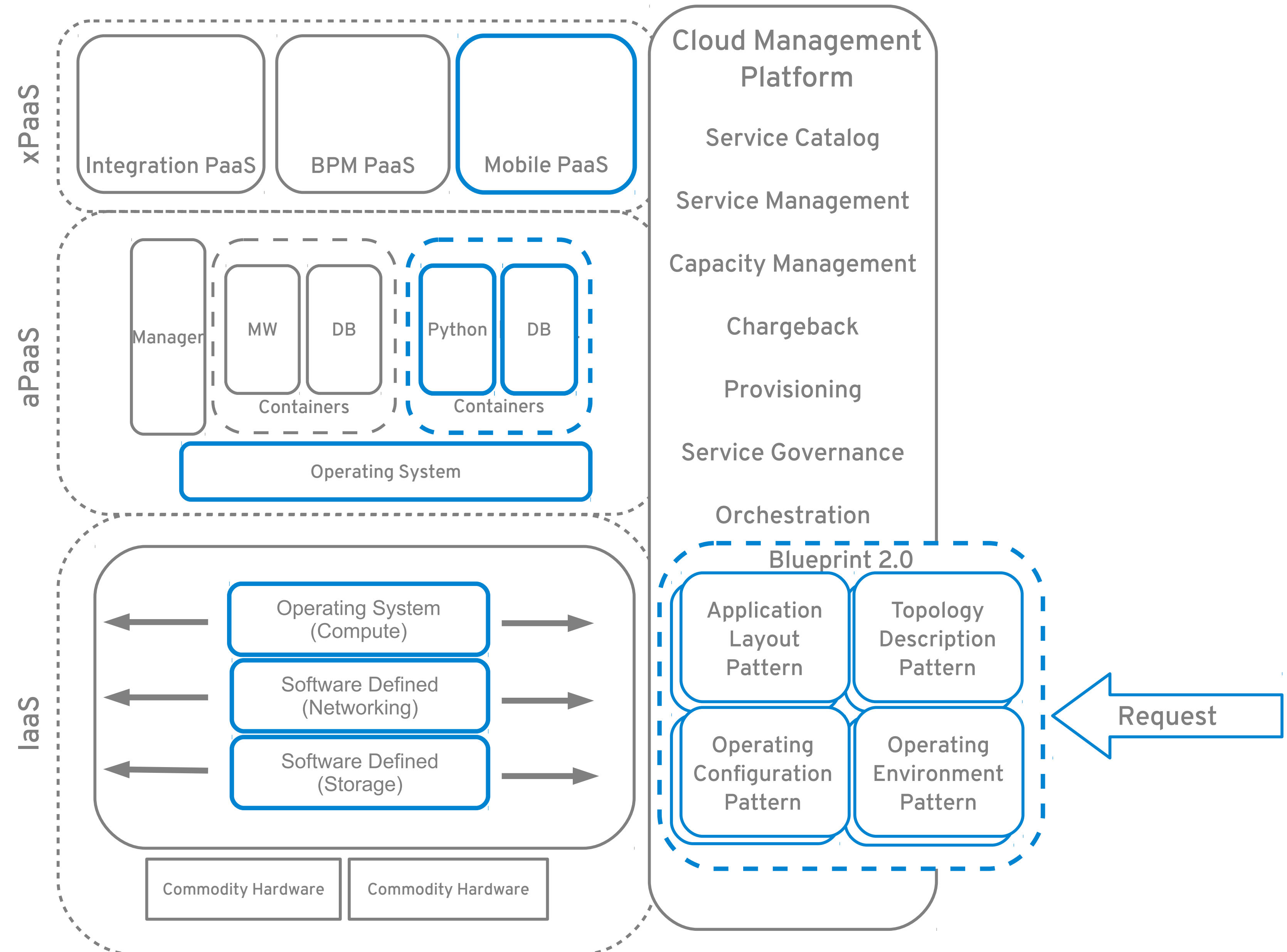


# Evolve Deployment to Cloud Platforms with Patterns

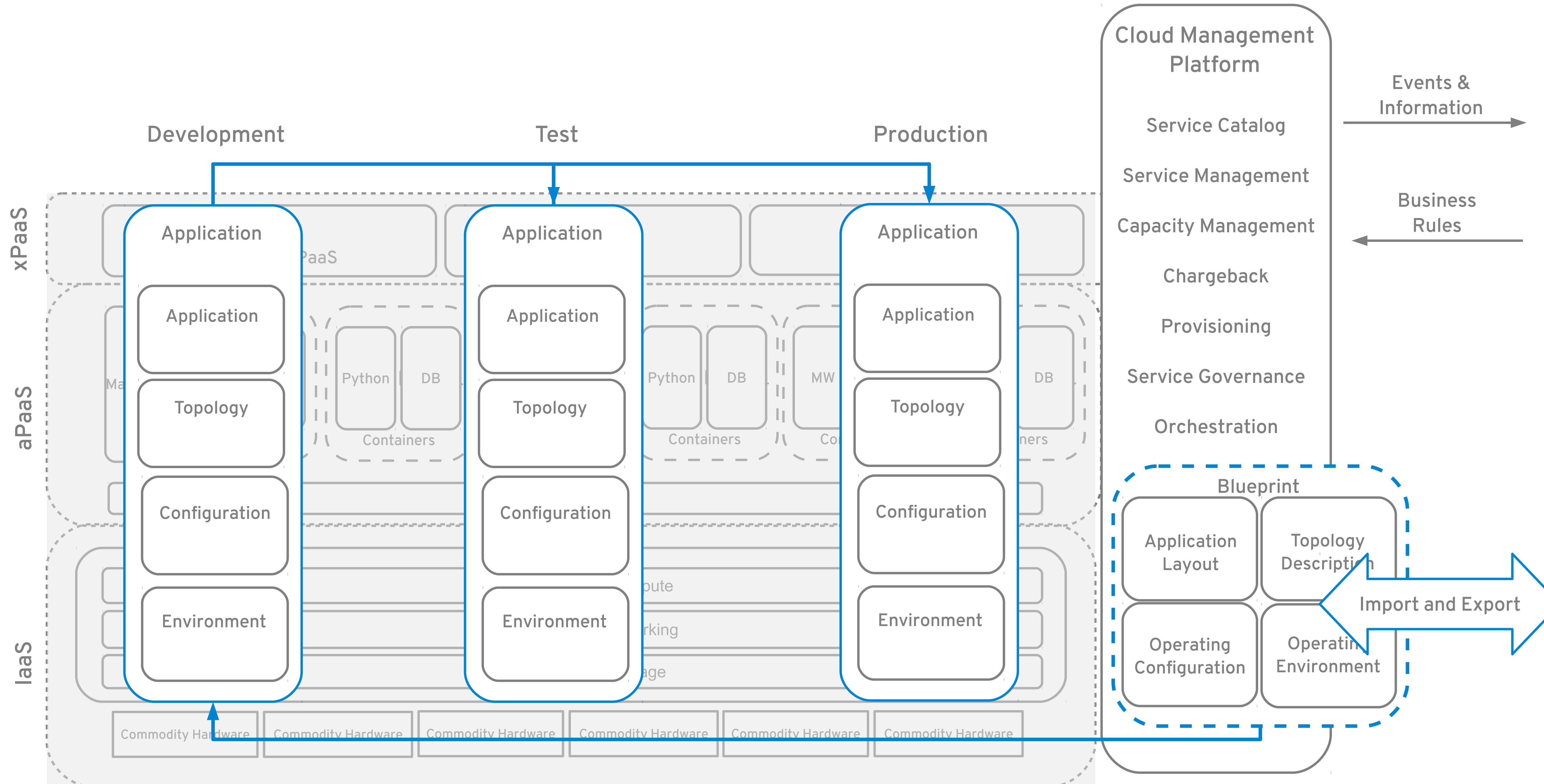
## Traditional Platforms



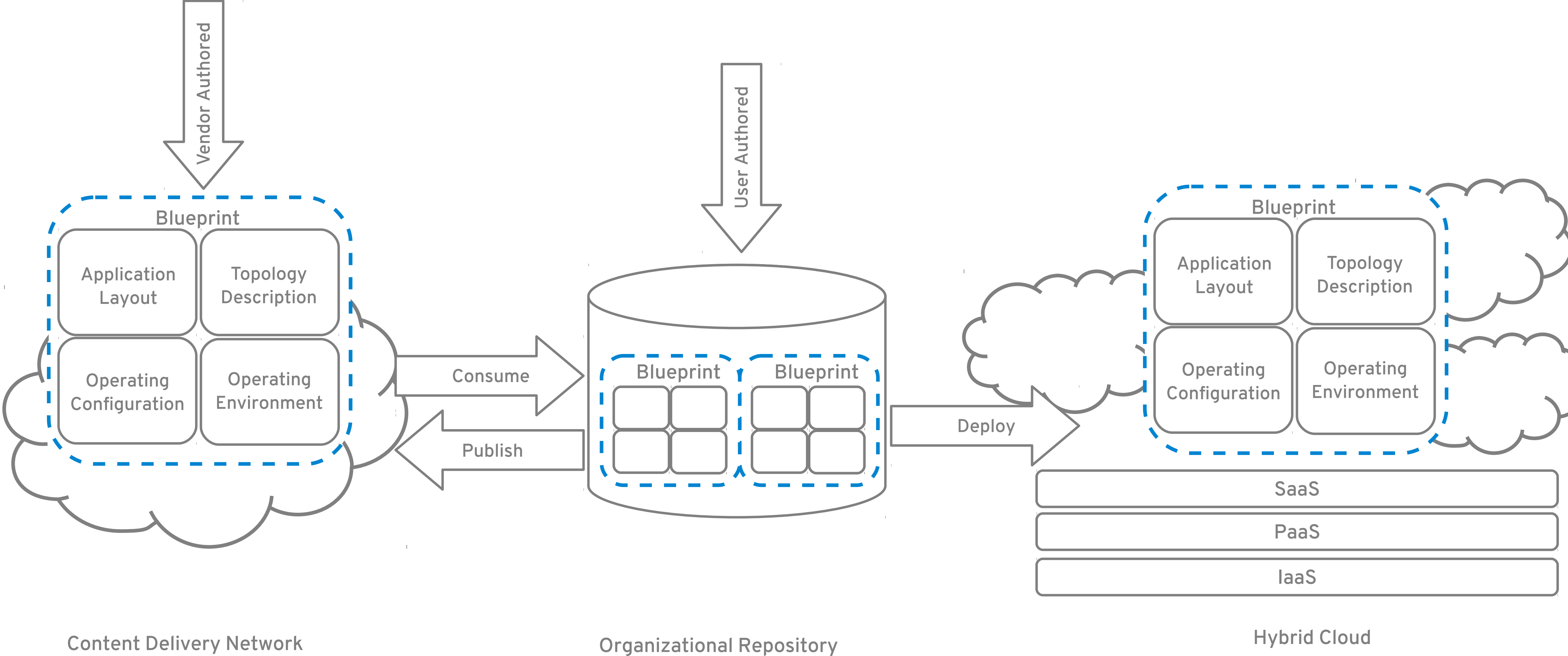
## Cloud Platforms



# Provide Life-Cycle Management



# Create Portability



# Red Hat's Open Hybrid Cloud

Red Hat  
xPaaS

Red Hat JBoss Portal  
Red Hat JBoss BRMS  
Red Hat JBoss Fuse  
Red Hat JBoss SOA Platform

Red Hat JBoss Data Services  
Red Hat JBoss Enterprise Application Platform  
Red Hat JBoss Web Server  
Red Hat JBoss Data Grid

Integration PaaS

BPM PaaS

Mobile PaaS

CloudForms

Service Catalog

Service Management

Capacity Management

Chargeback

Provisioning

Service Governance

Orchestration

OpenShift  
By Red Hat

Broker

JBoss

Database

Python

DB

Gear

Gear

Red Hat Enterprise Linux

Red Hat Enterprise Linux  
OpenStack Platform

Red Hat Enterprise Linux  
(Compute)

Neutron  
(Networking)

Red Hat Storage  
(Storage)

Red Hat Enterprise Linux OpenStack Platform  
Red Hat Enterprise Virtualization

Commodity Hardware

Commodity Hardware

Commodity Hardware

Blueprint

OpenShift  
Cartridge  
(Application)

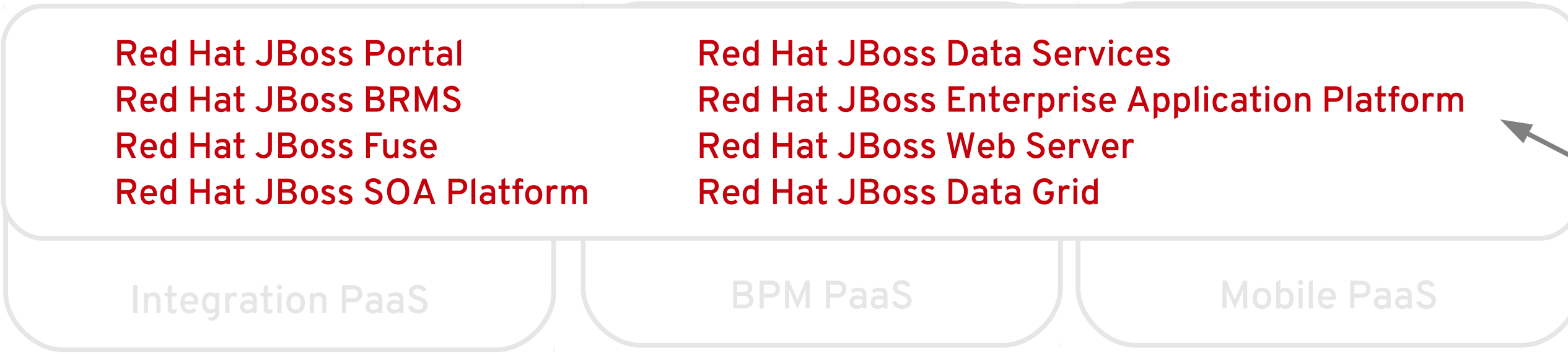
OpenStack  
Heat  
(Topology)

Red Hat  
Satellite  
(Configuration)

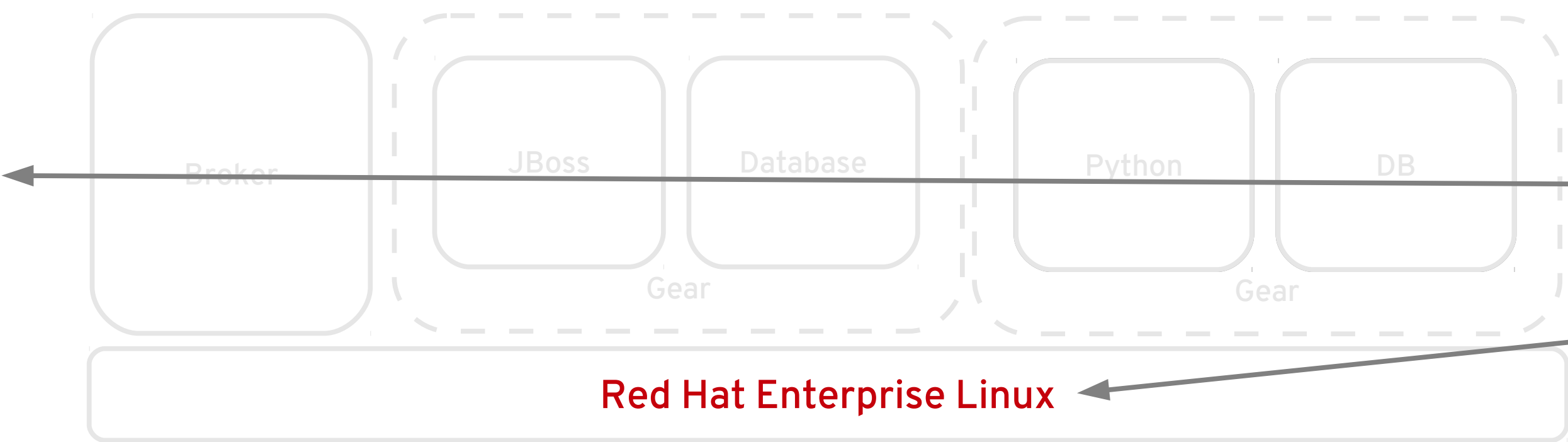
Red Hat  
Satellite  
(Imaging)

# Community Powered Innovation

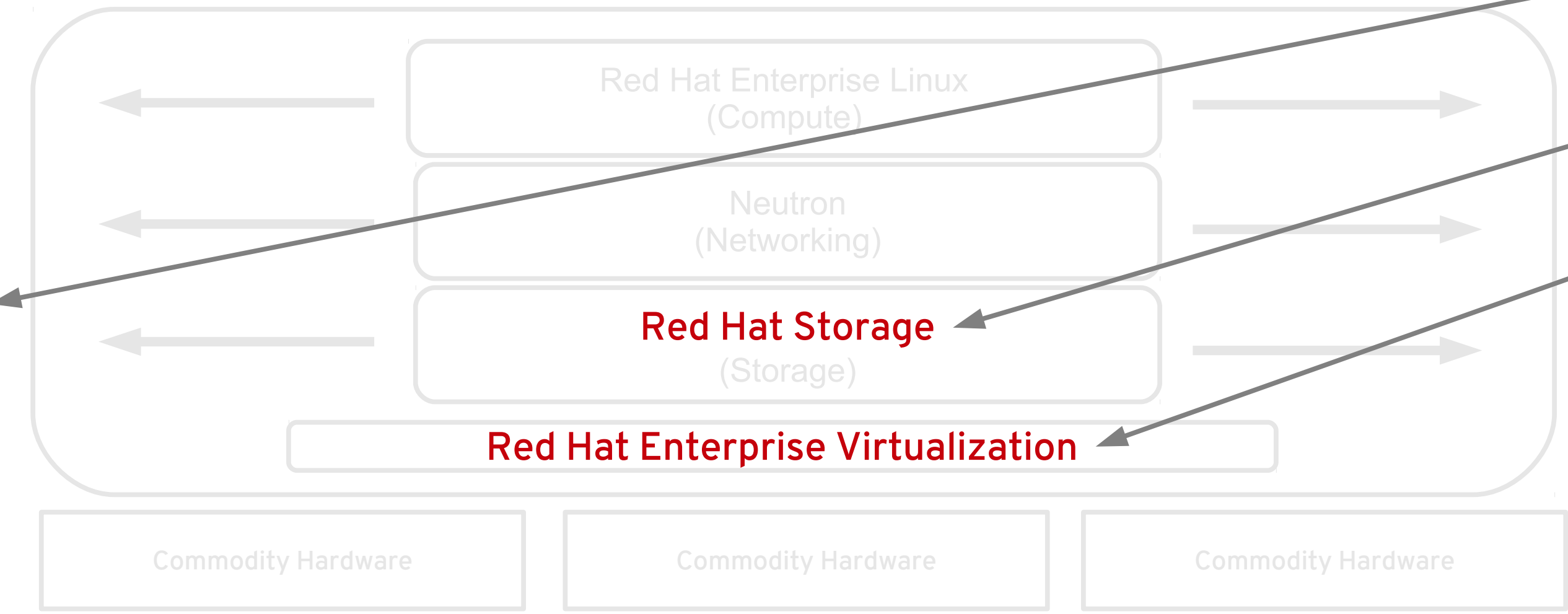
Red Hat  
xPaaS



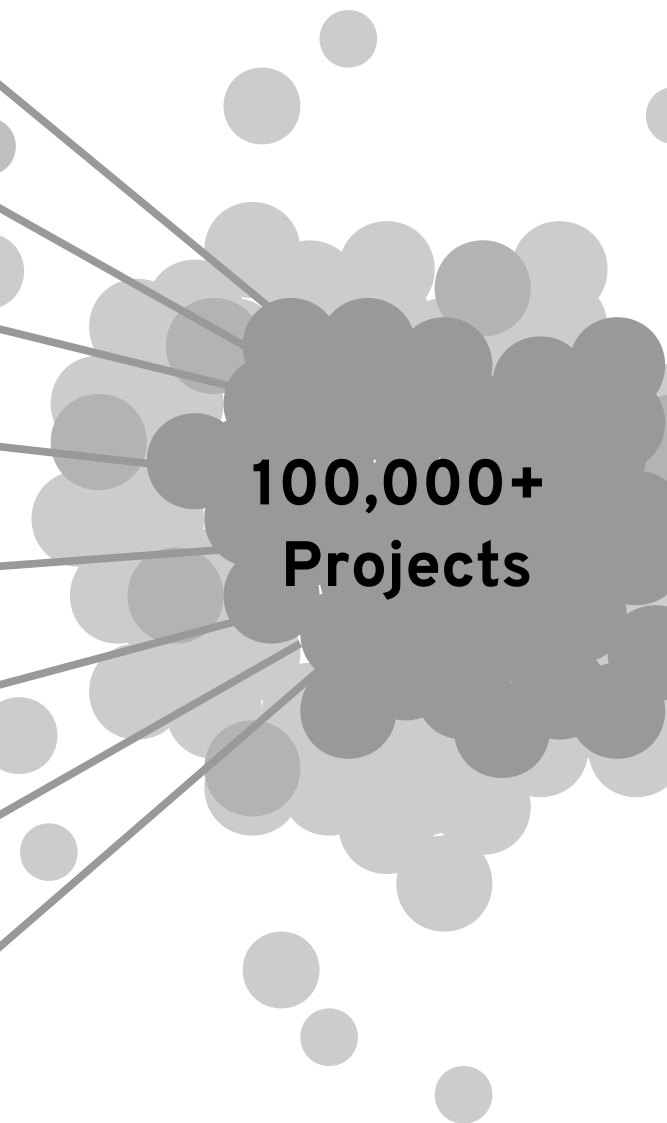
OpenShift  
By Red Hat



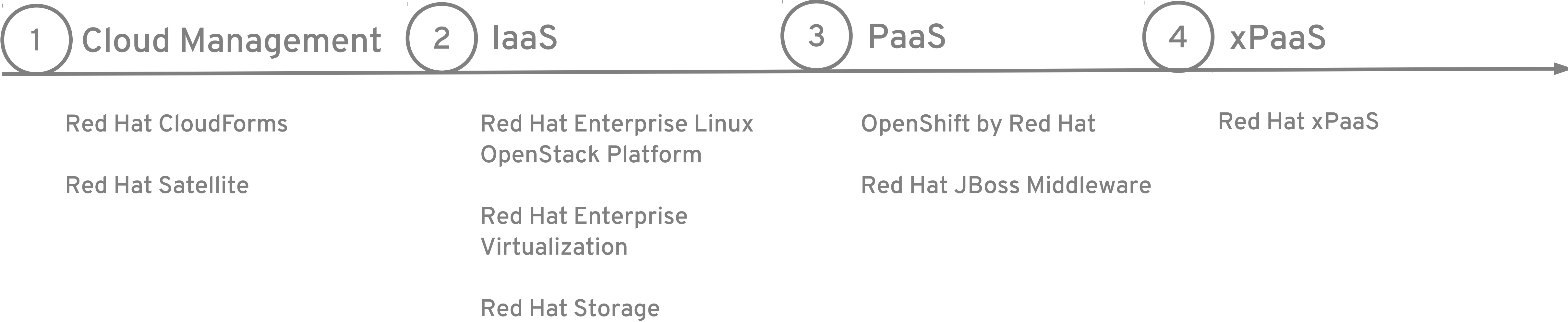
Red Hat Enterprise Linux  
OpenStack Platform



- ManageIQ
- JBoss.org
- OpenShift Origin
- Fedora
- RDO
- Gluster
- oVirt
- Foreman



Architecture



Workloads

