

28. February 2020

Cloud Architecture Report

Summary

Provider:	Amazon Web Services
Primary location:	EU-Frankfurt
Primary usage time:	
# of Instances:	0
Requests:	0
Storage Capacity in TB:	0

Services

- vm - Amazon EC2
- load balancer - Elastic Load Balancing
- search engine - Amazon Elasticsearch Service
- vpc - Amazon VPC
- storage - Amazon Simple Storage Service

vm

Properties

Name:	vm
Category:	Compute
Service:	Amazon EC2
Type:	VM
Instance type:	General
Instance hours:	730
CPU:	2
RAM in GB:	4
Operating system:	Linux
Transferred data in GB:	50

Usage

Location:	EU-Frankfurt
Usage type:	-
Usage period:	-
Usage prepay:	None
Operating mode:	-

load balancer

Properties

Name:	load balancer
Category:	Compute
Service:	Elastic Load Balancing
Type:	Load Balancer
Units:	1
Transferred data in GB:	10

Usage

Location:	EU-Frankfurt
Usage type:	-
Usage period:	-
Usage prepay:	None
Operating mode:	-

search engine

Properties

Name:	search engine
Category:	Analytic
Service:	Amazon Elasticsearch Service
Type:	Search Engine
Instance type:	General
CPU:	1
RAM in GB:	2
Hours:	730
Processed data in GB:	5
Transferred data in GB:	5

Usage

Location:	EU-Frankfurt
Usage type:	-
Usage period:	-
Usage prepay:	None
Operating mode:	-

vpc

Properties

Name:	vpc
Category:	Network
Service:	Amazon VPC
Type:	VPC
Connections:	1
Endpoints:	4
Hours:	730
Incoming data in GB:	100
Outgoing data in GB:	50

Usage

Location:	EU-Frankfurt
Usage type:	-
Usage period:	-
Usage prepay:	None

Operating mode:	-
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storage

Properties

Name:	storage
Category:	Storage
Service:	Amazon Simple Storage Service
Type:	Object-Storage (Standard)
Storage in GB:	100
Read requests:	20000
Write requests:	10000
Transferred data in GB:	10

Usage

Location:	EU-Frankfurt
Usage type:	-
Usage period:	-
Usage prepay:	None
Operating mode:	-

Cost Calculation

Service costs

vm	39.54 USD	$730 * 0.048 \text{ USD} + 50 * 0.09 \text{ USD}$
load balancer	21.98 USD	$1 * 0.03 \text{ USD} * 730 \text{ hours} + 1 * 10 * 0.008 \text{ USD}$
search engine	31.21 USD	$730 * 0.042 \text{ USD} + 5 * 0.02 \text{ USD} + 5 * 0.09 \text{ USD}$
vpc	77.04 USD	$1 * 0.05 \text{ USD} * 730 \text{ hours} + 730 * 0.012 \text{ USD} * 730 \text{ hours} + 100 * 0.01 \text{ USD} + 50 * 0.09 \text{ USD}$
storage	3.41 USD	$100 * 0.0245 \text{ USD} + 20.0 * 4.3\text{E-}4 \text{ USD} + 10.0 * 0.0054 \text{ USD} + 10 * 0.09 \text{ USD}$

Total costs

Per Hour:	0.24 USD
Per Day:	5.77 USD
Per Month:	173.18 USD

Cost Scaling

Cost Optimization

Cost Comparison