

28. February 2020

## Cloud Architecture Report

### Summary

Provider:	Windows Azure
Primary location:	EU-Frankfurt
Primary usage time:	
# of Instances:	0
Requests:	0
Storage Capacity in TB:	0

### Services

- vm - Azure Virtual Machines
- load balancer - Azure Load Balancer
- search engine - Azure Cognitive Search
- vpc - Azure Virtual Network
- storage - Azure Blob Storage

## vm

### Properties

Name:	vm
Category:	Compute
Service:	Azure Virtual Machines
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:	Azure Load Balancer
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:	Azure Cognitive Search
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:	Azure Virtual Network
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:	Azure Blob Storage
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	40.04 USD	$730 * 0.048 \text{ USD} + 50 * 0.1 \text{ USD}$
load balancer	7.35 USD	$1 * 0.01 \text{ USD} * 730 \text{ hours} + 1 * 10 * 0.005 \text{ USD}$
search engine	245.28 USD	$730 * 0.336 \text{ USD}$
vpc	1.50 USD	$100 * 0.01 \text{ USD} + 50 * 0.01 \text{ USD}$
storage	4.96 USD	$100 * 0.0196 \text{ USD} + 20.0 * 4.3\text{E-}4 \text{ USD} + 10.0 * 0.0054 \text{ USD} + 10 * 0.1 \text{ USD}$

Total costs

Per Hour:	0.41 USD
Per Day:	9.97 USD
Per Month:	299.13 USD

Cost Scaling

Cost Optimization

Cost Comparison