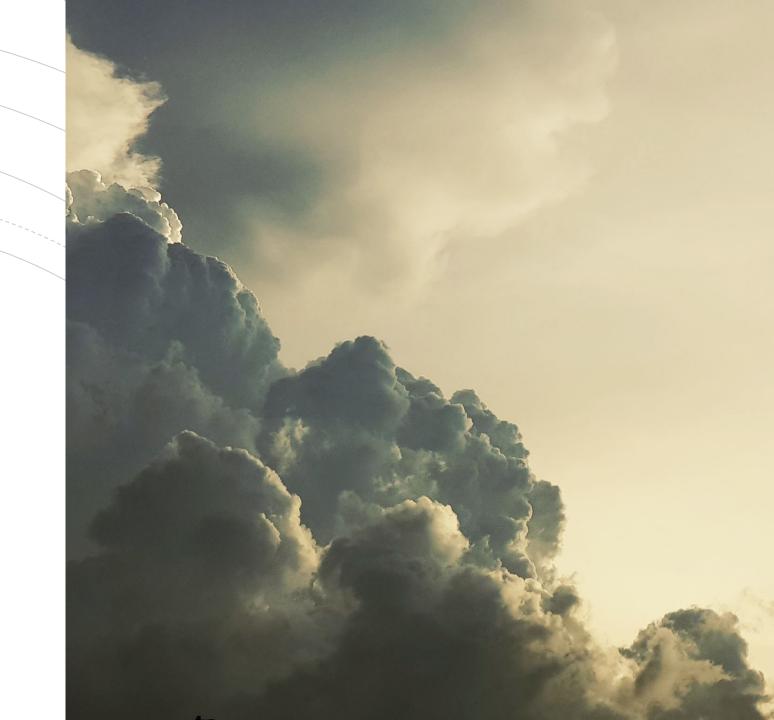
#### Multi-cloud Architecture Is it a thing or a Mythical Creature?

Presented by

Luisa Pinto

Senior Software Engineer

Footasylum



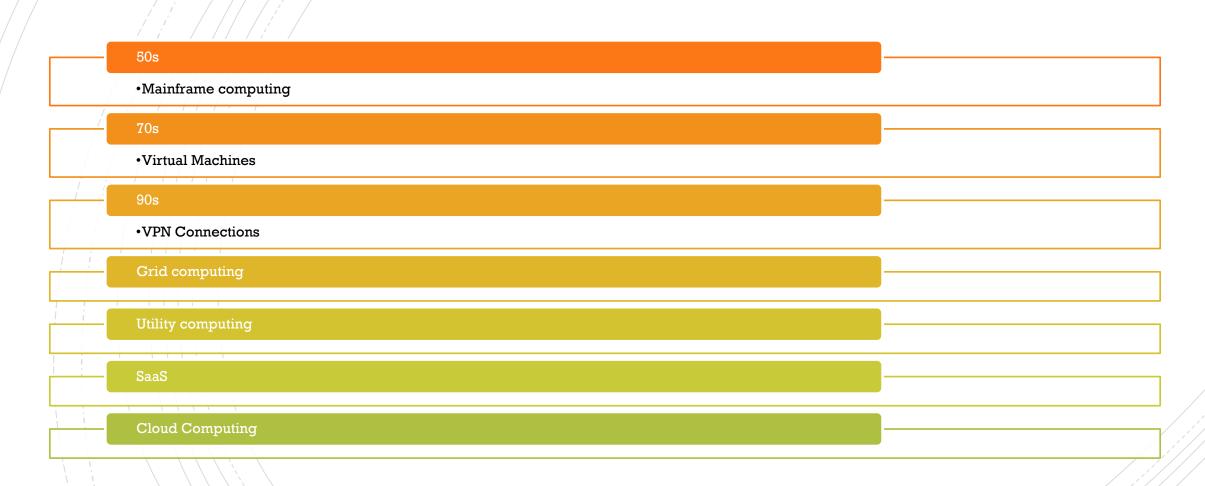
#### Overview





CONCLUSION

## Cloud Computing: Evolution



# Cloud Computing: What is it?

- Provided by a vendor
- Multi-customer infrastructure
- Multi-service solution
- Elastic scaling
- Automated
  - Upgrades
  - Backups
  - Uptime
- Ubiquitous

#### Cloud Computing: Services

#### SaaS -> Software as a Service

- Consume
  - Email, CRMs, Collaborative, ERP

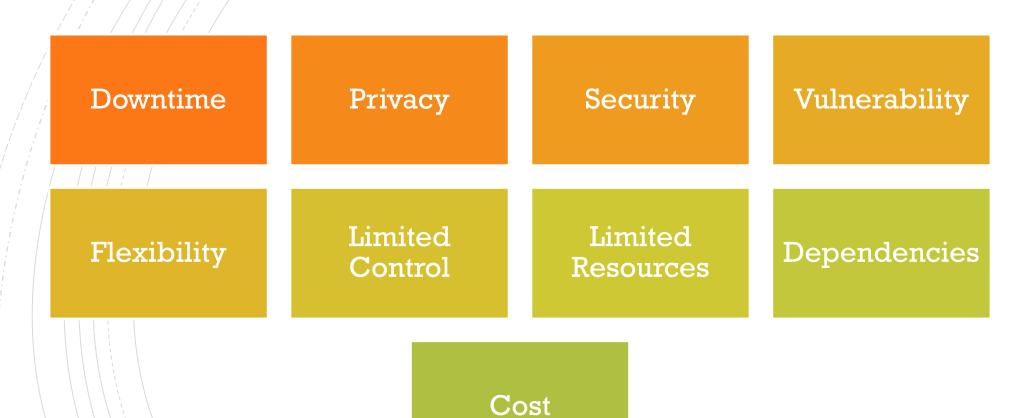
#### PaaS -> Platform as a Service

- Build
  - App Development, Support decision, Web, Streaming

#### IaaS -> Infrastructure as a Service

- Migrate
  - Caching, Storage, Backuping, Security, Networking, System Management

## Single Cloud: Limitations



## Multi-cloud: Definition

It consists of one single software architecture making use of services, resources or infrastructure provided by multiple cloud vendors.

#### Multi-cloud: Motivation

Independence:
Reduce the
dependence from
a single vendor

Flexibility: Increase your options Risk: Mitigate plan in case of disaster

Hybrid: Onpremises and offpremises

Extended features or capabilities

Tackle diverse security concerns

Cost benefit

Free allowances ·D

## Multi-cloud: Hazards

- Multi-customer data privacy concerns
- Policy conflicts
- Rival providers
- Incompatible APIs
- Increased attack surface
- Increased complexity
- Limited control over resources and data
- Assets ownership
- TRUST
- Management overburden

#### Multi-cloud: Setups





Two clouds merged together

Add a cloud to an existing cloud

### Multi-cloud: Trust

#### Measures

- Weighted probability trust
- Service customisation
- Third party multi cloud audit

#### Multi-cloud: Conclusion



INCREASED THE POOL OF SERVICES



CHOICE OF PRICING



INCREASED COMPLEXITY



**INCREASED RISK** 



• Questions? Thank you.