

### FaaS-based Universal Multi-Cloud Connectors

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### Cloud Management platform (CMP)

#### Why is it important?

- Number of CMPs is growing constantly since multicloud is popular
- Business models are unique for every use case
- Cloud Management platform

#### What are the biggest players?

- Manageiq, api-libraries, CloudcheckR etc

### - Why there is no unified solutions?

- It is difficult from programming point of view to implement everything
- Over Complication when only partly functionality is required



### Scenario

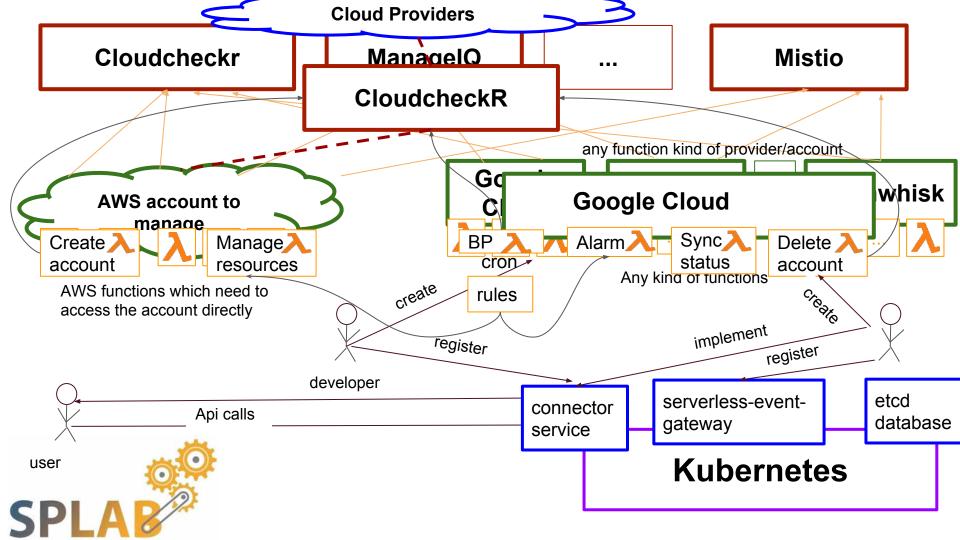


#### - Demo scenario:

- Analyze AWS account
- Have automatic virtual resource management
- Alarm notifications

### - Scenario problem:

- What are the limitations of Cloudcheckr?
- Why do we need functions?
  - Simple extension and development
  - To secure aws
- Why do we need event gateway?
  - Centralised endpoint
  - Support of different platforms



### Architecture

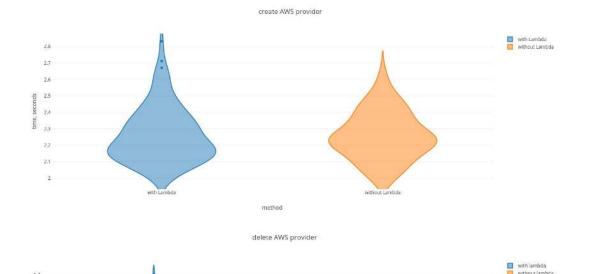


- How do we solve the problem?
  - Implement functions which are using sensitive data directly on the account
  - Use kubernetes as proof of concept together with event-gateway
  - Query best practices from CloudcheckR and extend the usage
- How flexible is it?
  - Adding new feature into centralised point just with a function implementation

# DEMO(speed-up)

### Results and conclusion

with lambda



without lambda



Create aws provider without lamba in average faster for 2.5%

Delete aws provider without lamba in average faster for 22%

### Conclusion



#### What are the problems:

- It takes time and full understanding of business model
- Implementation might be not trivial
- Typical lambda functions limitations

### Advantages

- Easy to extend
- Have only needed CMP functions

### What is the main output:

- Security, Speed, Alarm
- With functions we implement customized management platform
- We use only that functions which are needed
- Exchange flexibility to more implementation
- Completely distributed functions

## Demo links



https://github.com/lexxito/essca2018-demo





https://drive.switch.ch/index.php/s/S GJOEKCXNydquxp?path=%2FOle ksii%20Serhiienko

