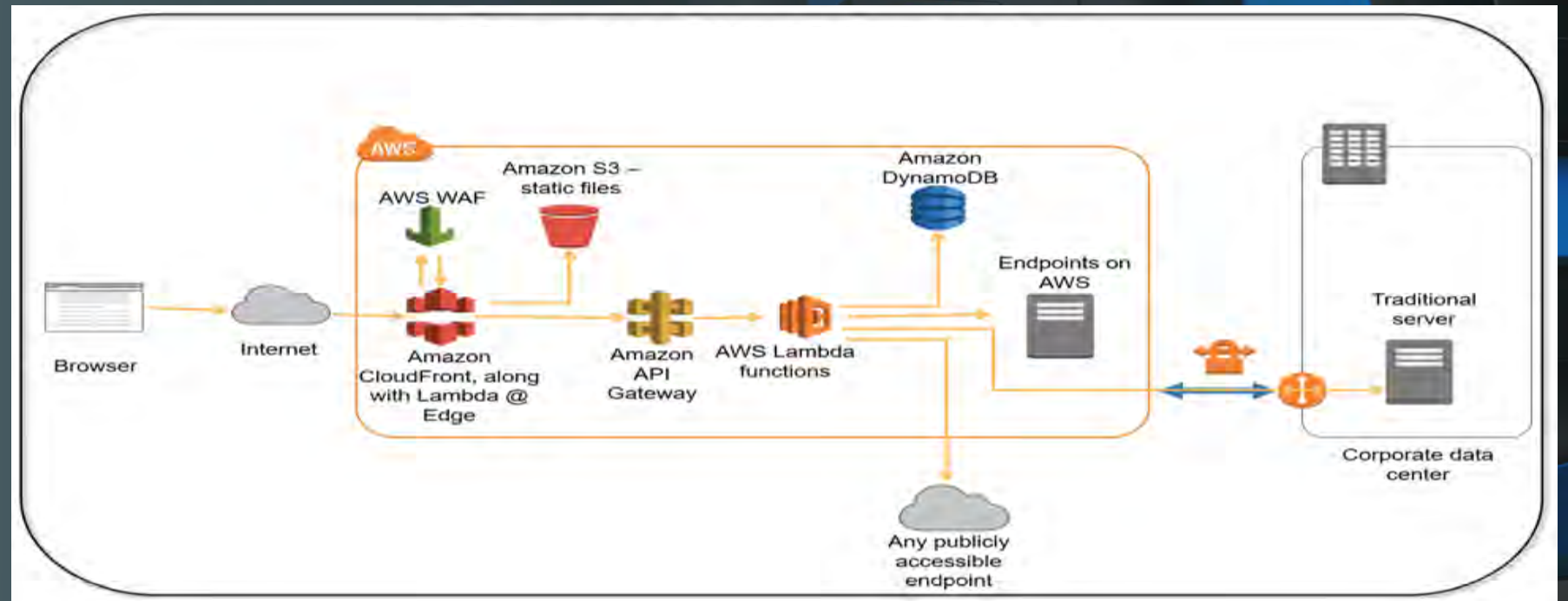


Serverless Application

21st March 2019

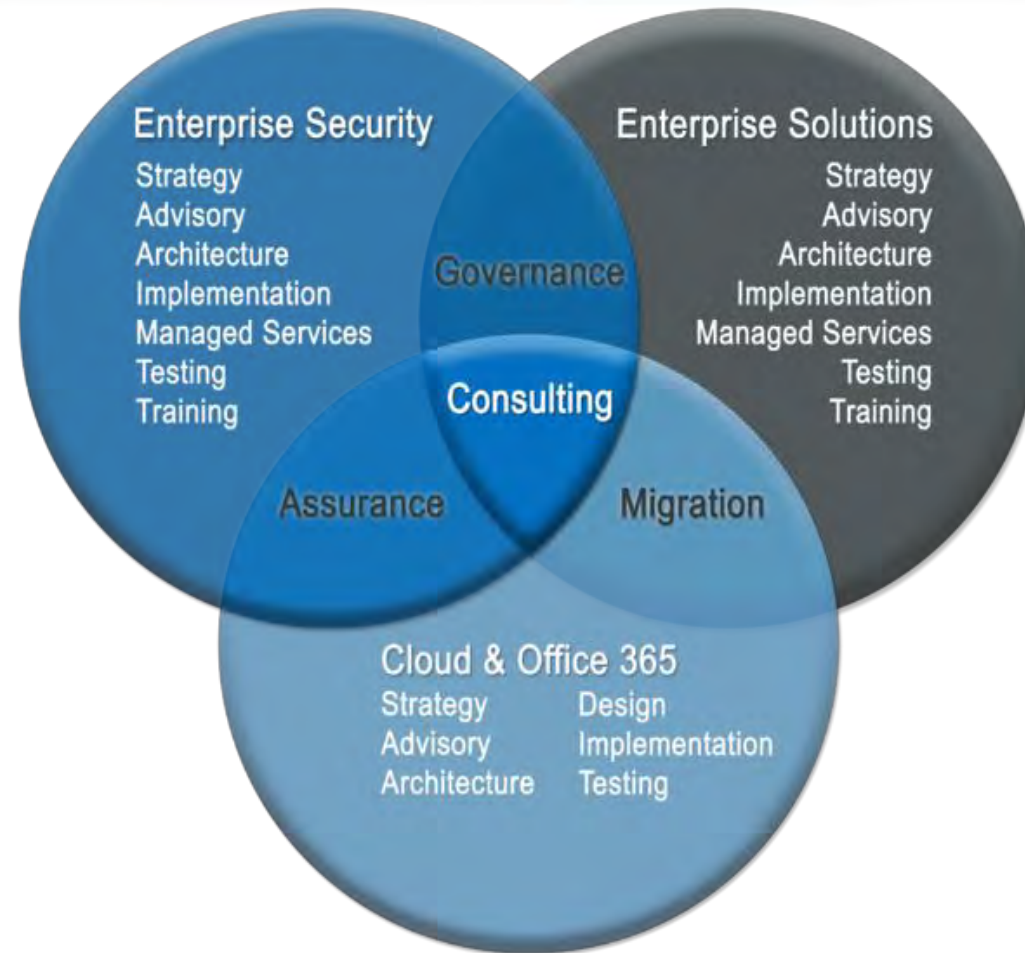


ES²

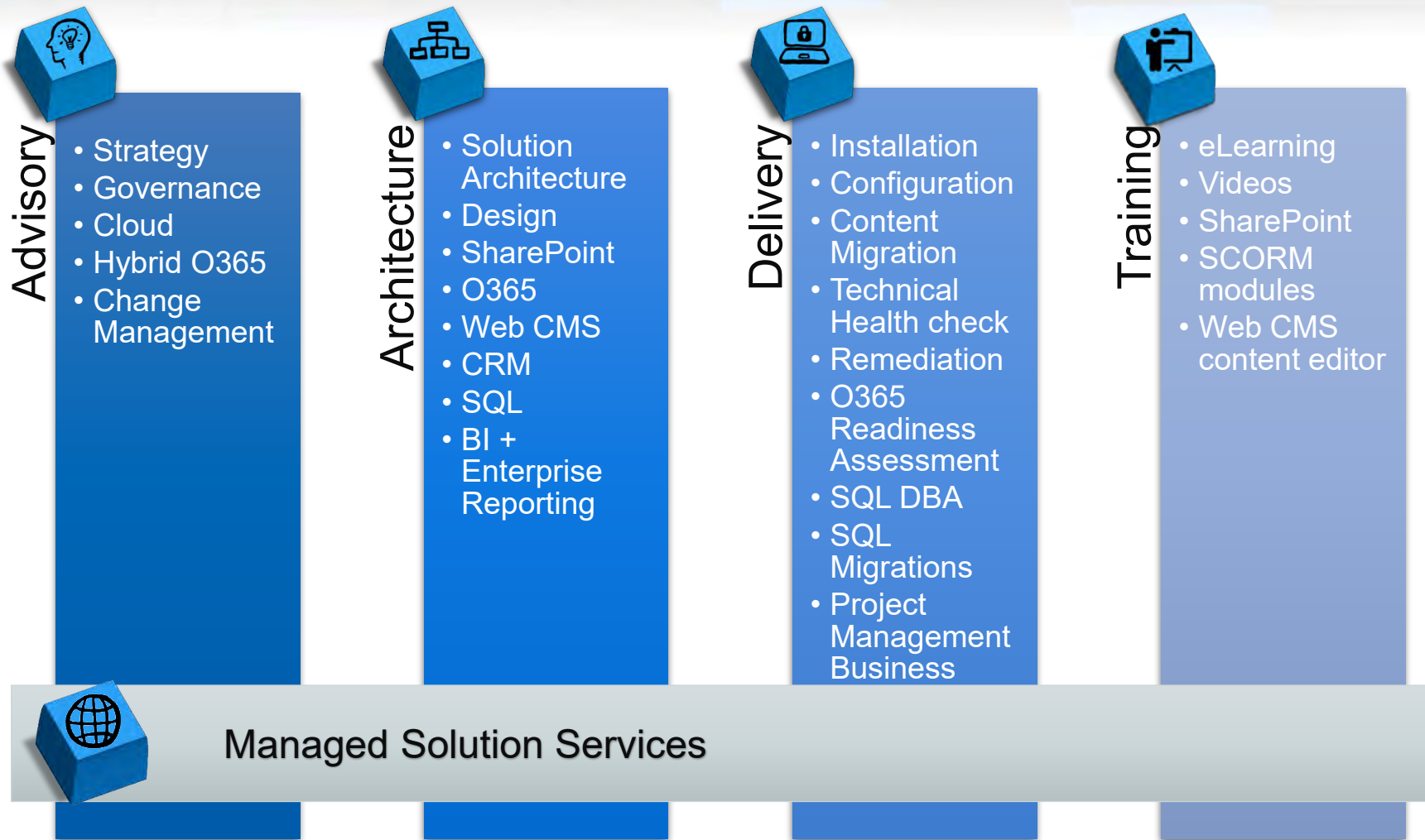
- Welcome Drinks - 16:00
- Canapes -16:30
- Serverless Application Presentation - 17:00
- Drone to be won with Kahoot! quiz!
- More Food and More Drinks – 17:30



- ES2 Enterprise Security
- ES2 Enterprise Solutions
- ES2 Incident Response
- ES2 Kids
- ES2 People



Solution Services



By Kids For Kids

ES2 Kids is a foundation that assists in bridging the gap of Cyber Security Awareness for K-12 kids (1st - 12th grade)

Focus is to facilitate Cyber Security Awareness messages from the private and government sectors to K-12 kids (and their parents)



ES2 Cyber Incident Response

ES² 24/7 CYBER INCIDENT RESPONSE

1800 372 732

(1800 ES2 SEC)

www.es2.com.au

Available in WA. Coming to the rest of Australia in 2018

Backed by
INCIDENT RESPONSE TEAM

CHECK POINT



Ajay Chauhan

More than 13 years of experience in Data Warehouse Design & Development – On Prem / Cloud, Data Analytics, Solution Design, Consulting.

Worked in various industries such as Utilities, Government, Health Care, Oil & Gas, Education.

Dilip Jambula

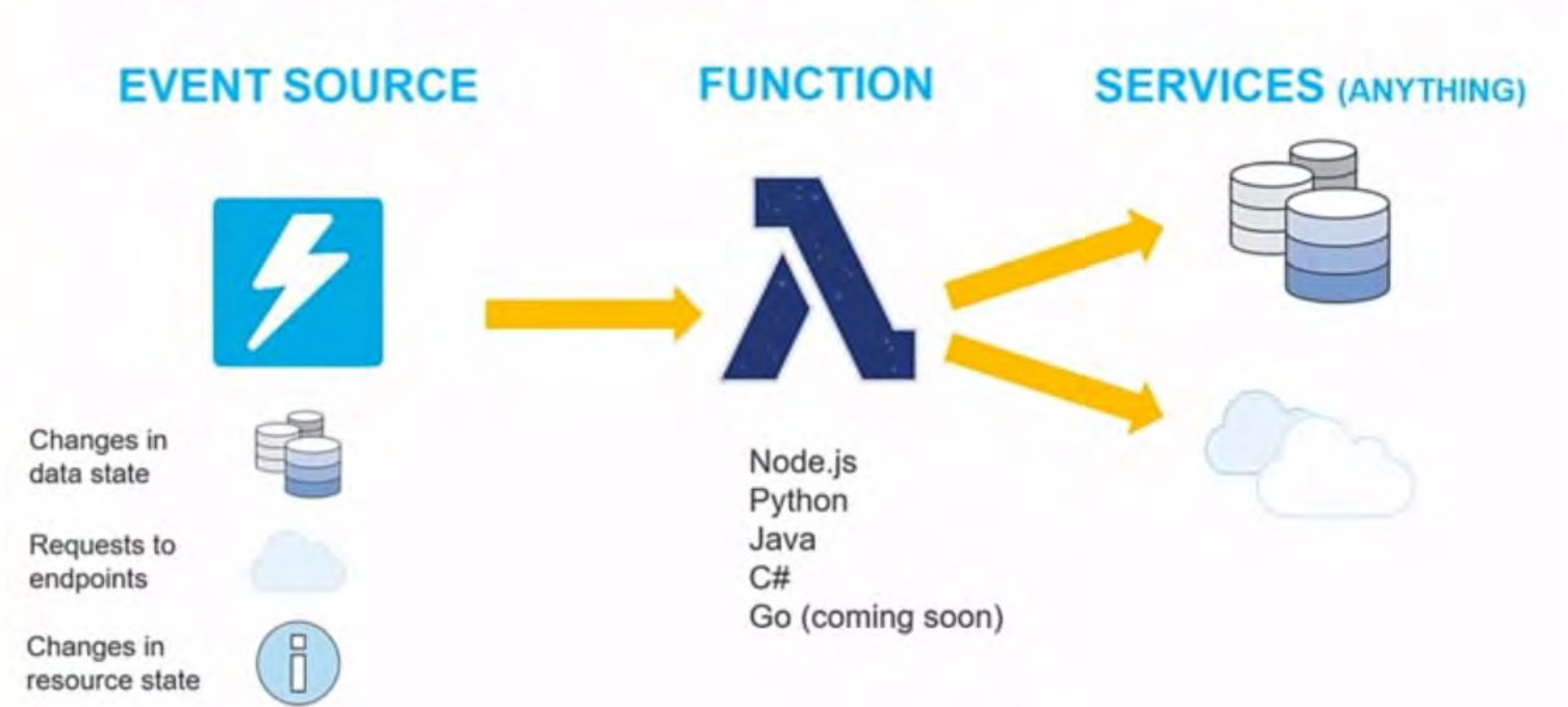
More than 12 years of experience in Developing Application using C#, .Net, SharePoint, Angular, React, Node.js, AWS Serverless.

Worked in various industries such as Oil & Gas, Mining, Professional Services.

What is it?

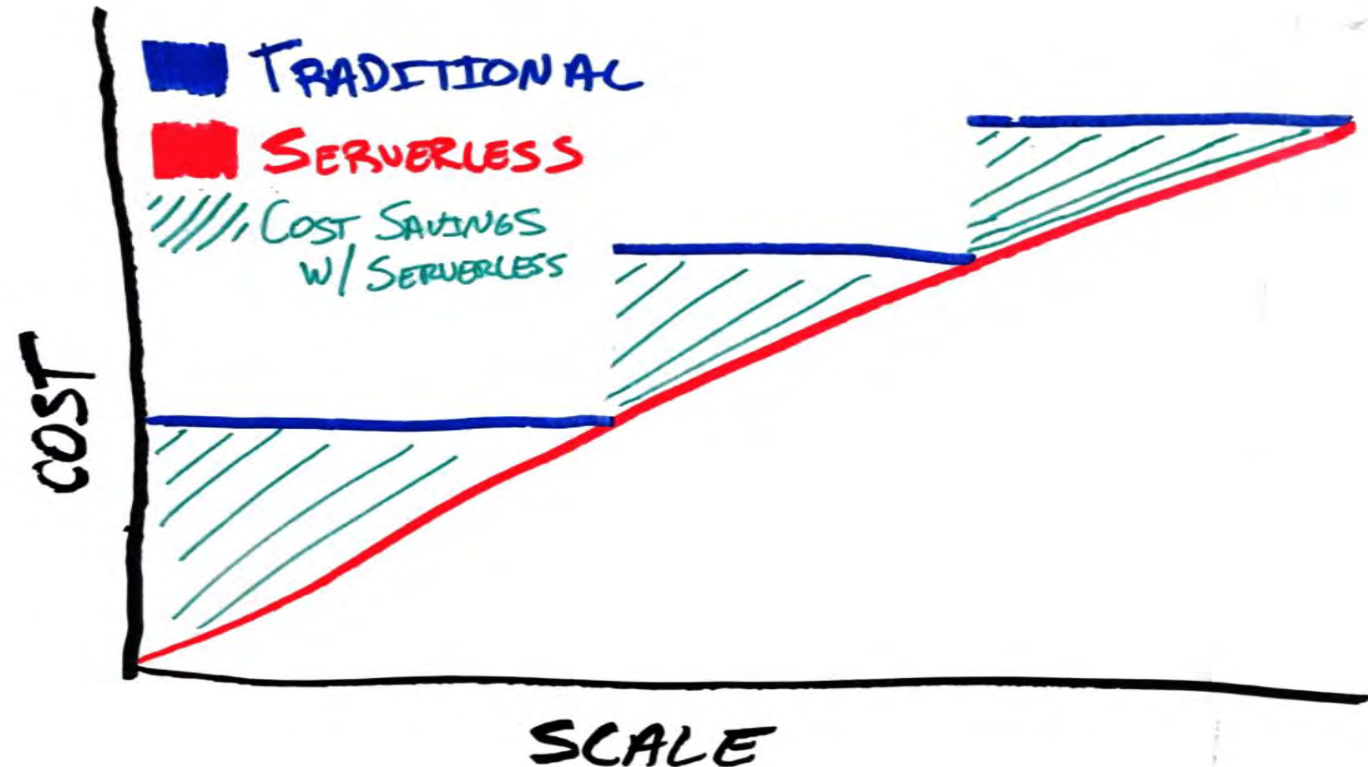
- Serverless computing is abstraction of Servers, Infrastructure and Operating systems.
- No servers to provision or manage
- Scales with usage
- Never pay for idle
- Availability and fault tolerance built in
- Serverless = Compute + Pattern

Serverless applications



Why should we use it?

- Seamless and Scale flexibly
- Low cost
- On-demand
- No Infrastructure
- Pay for What you use
- Load Balancing
- Less code



Serverless Application

Customers who use AWS Serverless:



Source: AWS re:Invent 2018: A Serverless Journey: AWS Lambda Under the Hood (SRV409-R1)

Customers who use Azure Serverless:



Source: Customers building serverless applications with Functions: <https://azure.microsoft.com/en-us/services/functions/>

Principles of Serverless

- Use a compute service to execute code on demand
- Write single-purpose stateless functions
- Design push-based, event-driven pipelines
- Create thicker, more powerful front ends
- Embrace third party services

Serverless Application

Pros

- It's serverless! (no servers)
- Versatile
- Scalable
- More focus on user experience and fewer things to worry about
- Low cost
- Less code

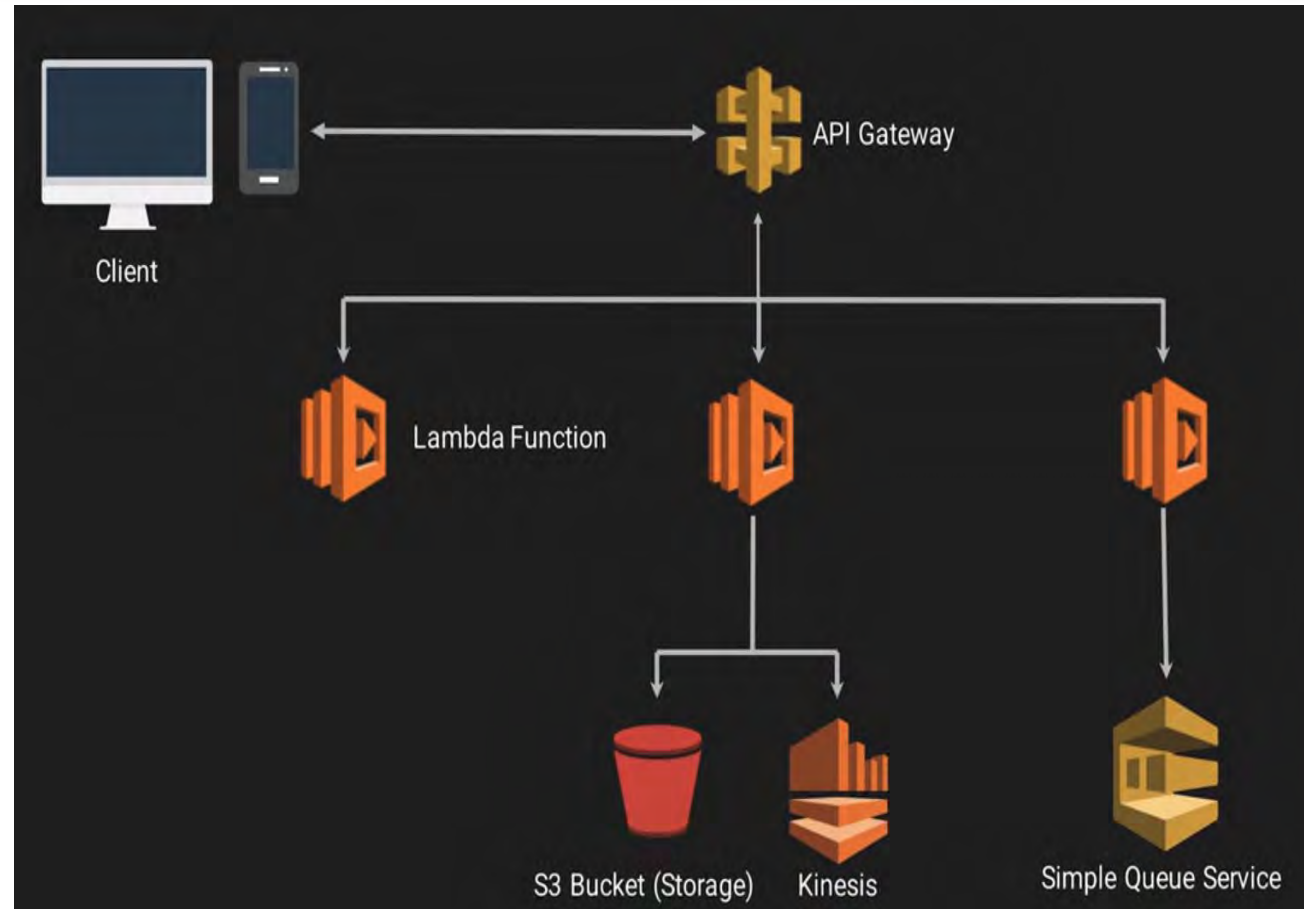
Cons

- Public cloud
- Reliance on Server Level Agreements
- Limited customisation
- Vendor lock-in
- Decentralised challenges
- Unsuitable for long duration tasks

Serverless Application

Serverless Patterns

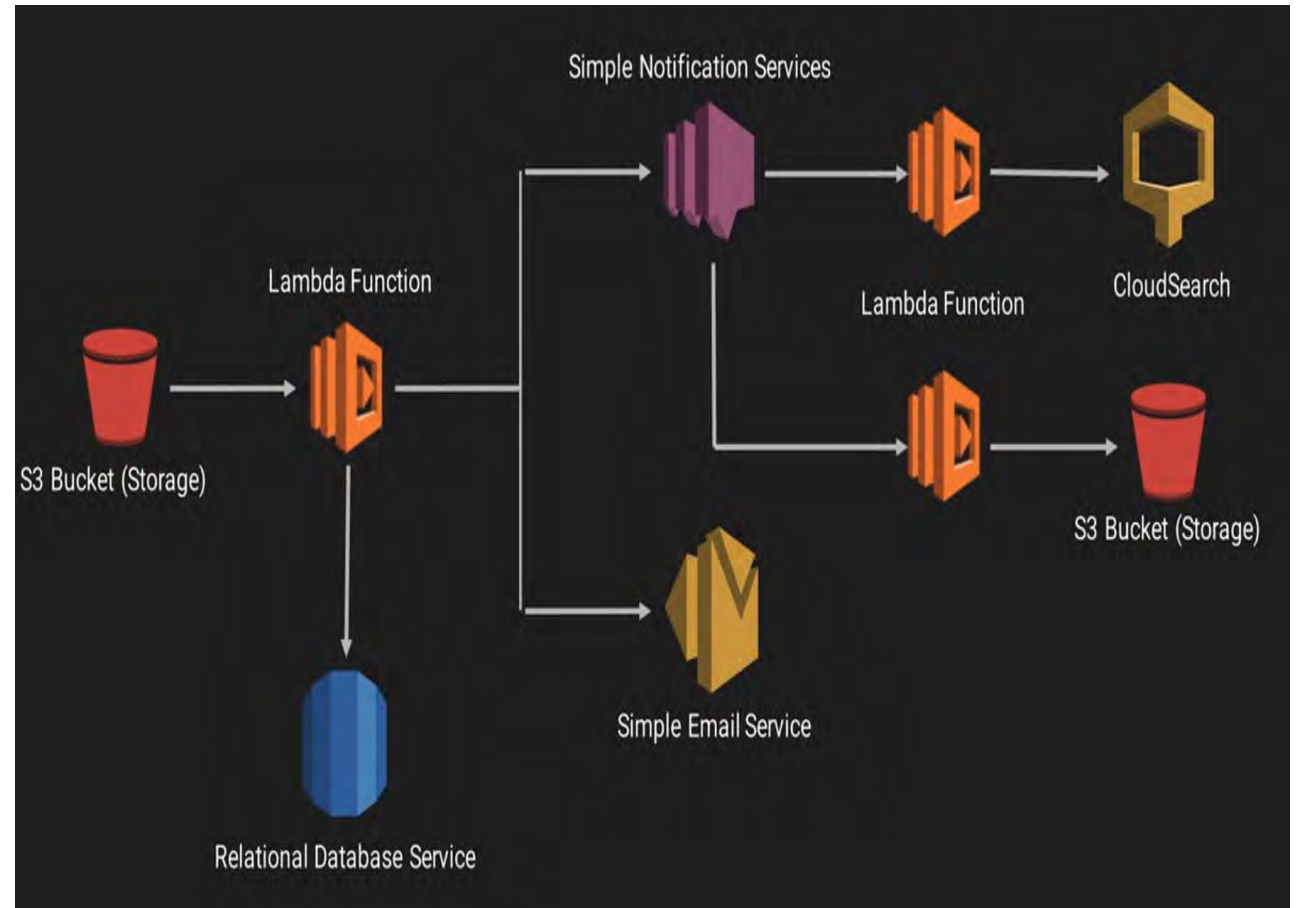
- Compute as Back End



Serverless Application

Serverless Patterns

- Compute as Glue



Serverless Patterns

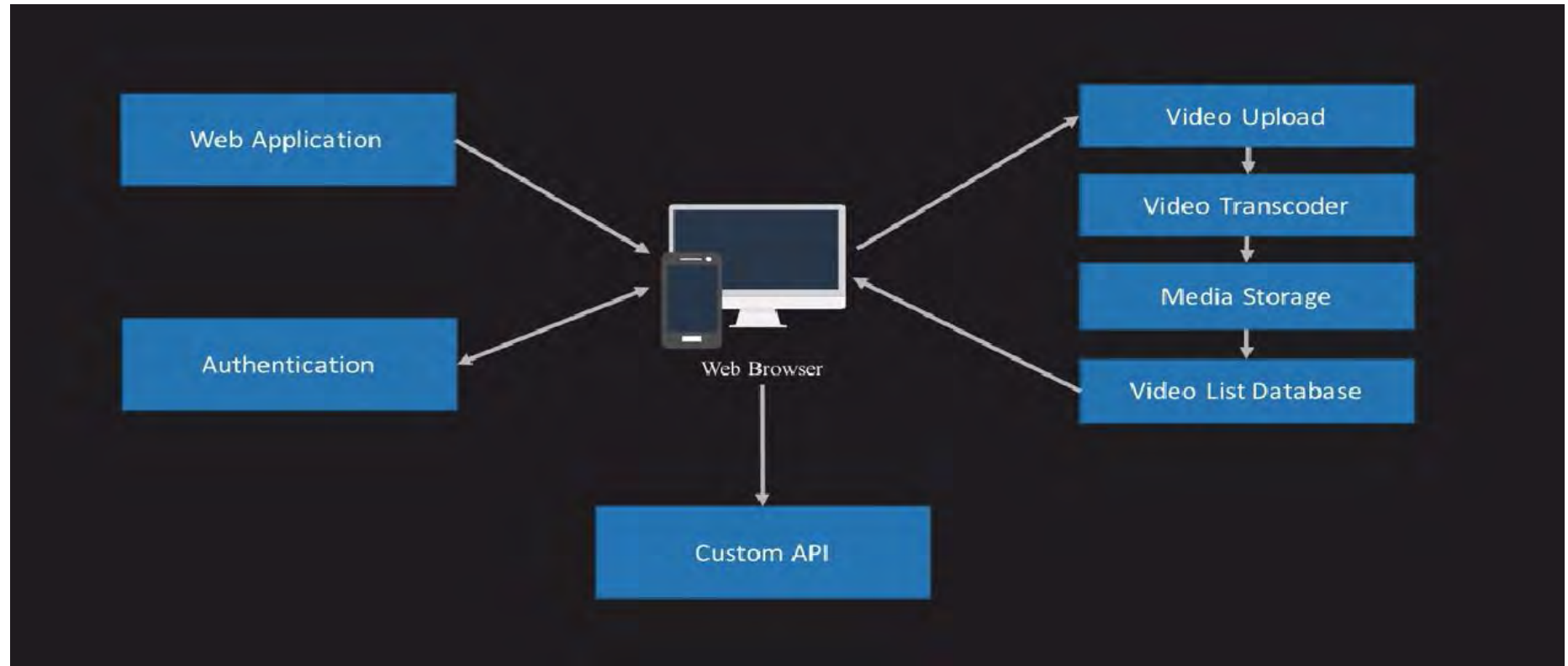
- Web Applications
- Stream Processing
- Data Lake Foundation
- Operation Automation
- Message pattern
- Priority Queue pattern

Quick Demo

- Set up Amazon Web Service Account
- Install Node.js
- Download zip file containing code : <https://github.com/ACloudGuru/serverless-workshop>
- Create two S3 buckets for Upload and Transcode
- Use AWS Lambda function to convert uploaded video to friendly format
- Create an API in AWS cloud & authenticate calls
- Connect Google firebase database to list videos
- Link to access the demo site: <https://bit.ly/2TSQRNO>

Serverless Application

Quick Demo



1- Discovery – NO COST

- Identify Use Case (Workshop)

2- Proof of Concept – \$5K Fixed Price

- Build the prototype

Questions?

Play Kahoot! to win a drone!

- Go to Kahoot.it or use the mobile app

Thank You!

