## Active Learning Cost Model & Service-Application Fit

## Question (1): Cost Model

Based on our discussions on the cost model for cloud resources\* please discuss:

- What is the effective cost model for each of the services below?
- When would you use each item?

	Service	Programming Interface	
1	Cloud Functions	Arbitrary Code	
2	BigQuery	SQL-Like Query	
3	Dynamo DB	puts() and gets()	
4	SQS	enqueue/dequeue events	

## Question (2): Service Packaging

Consider following architectures used for web applications:

**Big Data** 

**Event Driven** 

Web-Queue-Worker

Microservices

Discuss the cloud resource requirements of an application architecture for compute, store, and network resources, and indicate if you have one of the following packaged virtualized resources, what would you choose for each architecture:

	CPU/GPU	vCPU	Memory (GiB)	Bandwidth (Gbps)
1	N/A	8	16	<i>Up to 10</i>
2	1	8	16	Up to 10 + 2 Storage Optimized BW
3	N/A	8	64	Up to 10 + 4 Storage Optimized BW
4	N/A	8	16	Up to 10 + 8 Storage Optimized BW
5	N/A	2	16	Up to 25 + Local Storage

## Acknowledgement

The list of resources used in preparation of this slide set are provided on:

https://canvas.sfu.ca/courses/88212/pages/references

Pictures and quoted resources are mentioned in each use.

