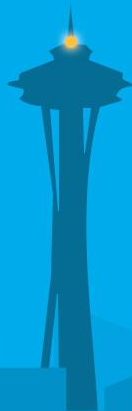


Serverless patterns and anti-patterns

Andon Dragomanov @ MCA

Azure Saturday 2019



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Agenda

What are azure functions?

01

When should we use them? (and when not)

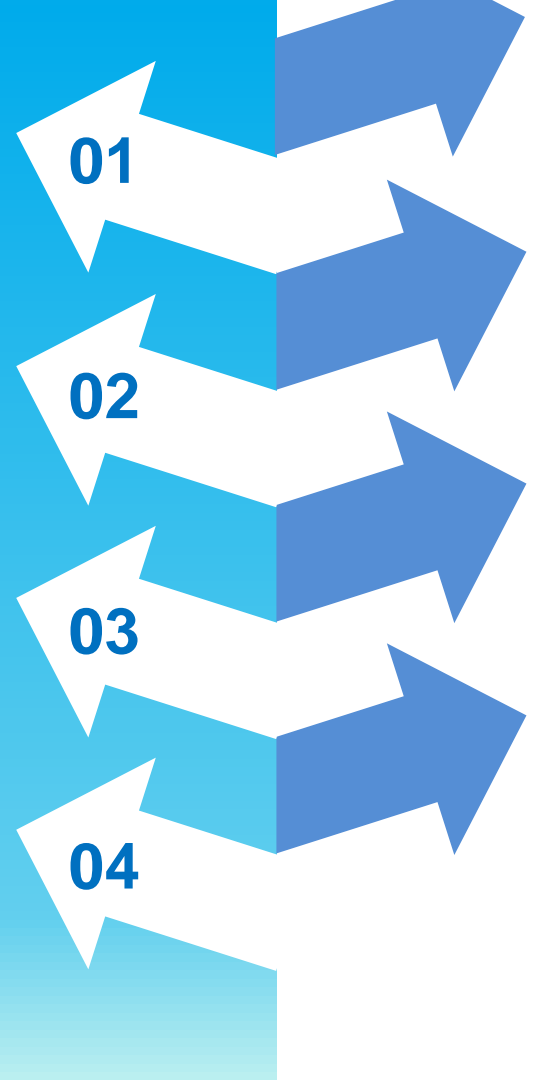
02

Patterns

03

Anti-Patterns

04



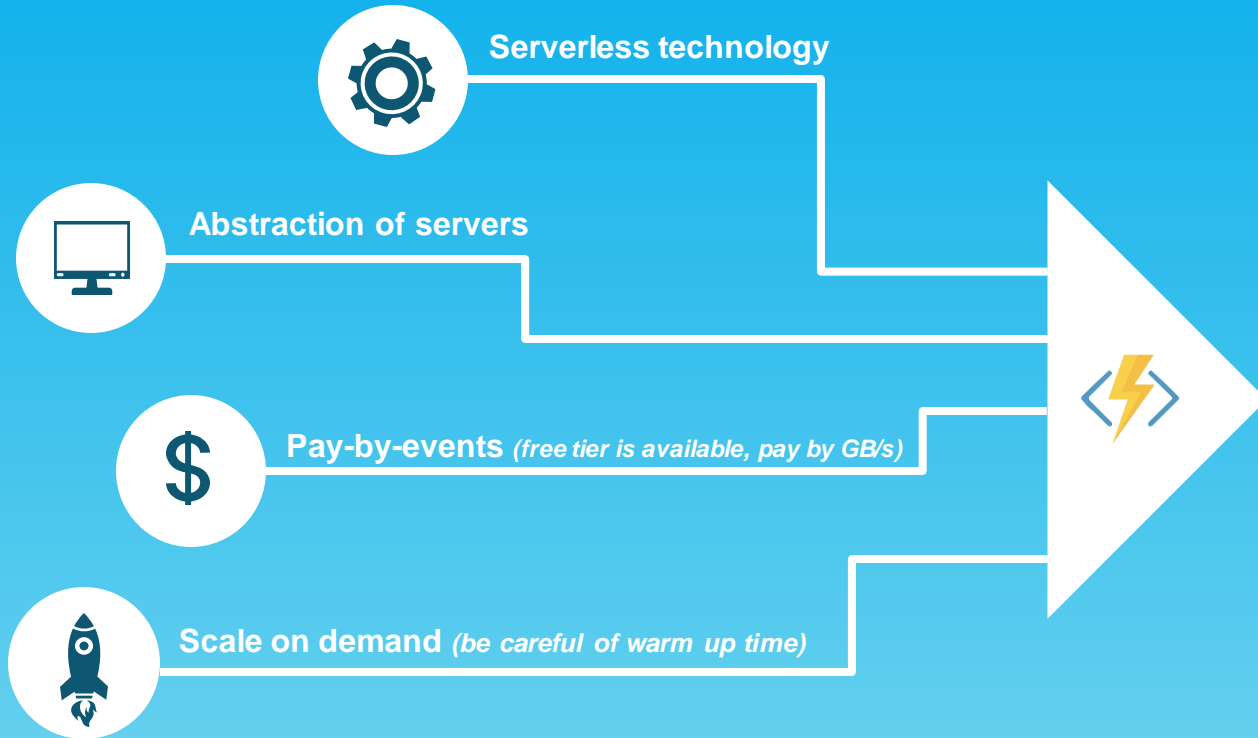
Show of hands



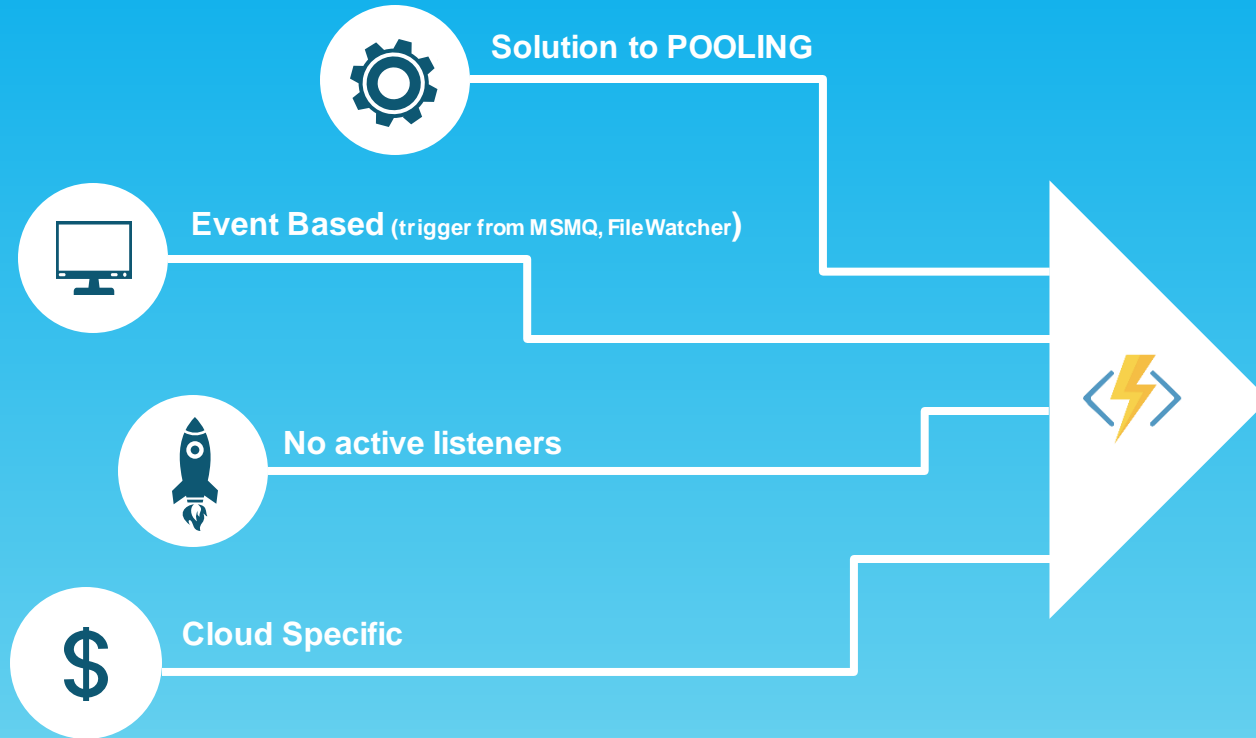
- How many have created at least one Serverless Function?
- How many have it on production?
- Any of you tried it and gave up because of usability issues?



What are Azure Functions?



Why are Azure Functions?



Use Fn()

- Async
- Stateless
- Trigger
 - Queues (Event Hub, Service Bus, ...)
 - Timer
 - Blob / File Storage
 - Database (change feed)
 - Http Trigger

NOT use Fn()

- Quick / Interactive Services
- REST APIs
- Long running tasks (limit 10 min)
- Resource Pooling
- High frequency events
 - Use dedicated instances



Demo – Function 101



Patterns

- Queue-based chaining
- Fan-Out/ Fan-In
- Human Interaction
- Extend Domain Business Value



Queue-based chaining



File Processing, Send Welcome Mails



Fan-Out / Fan-In

Video Transcode

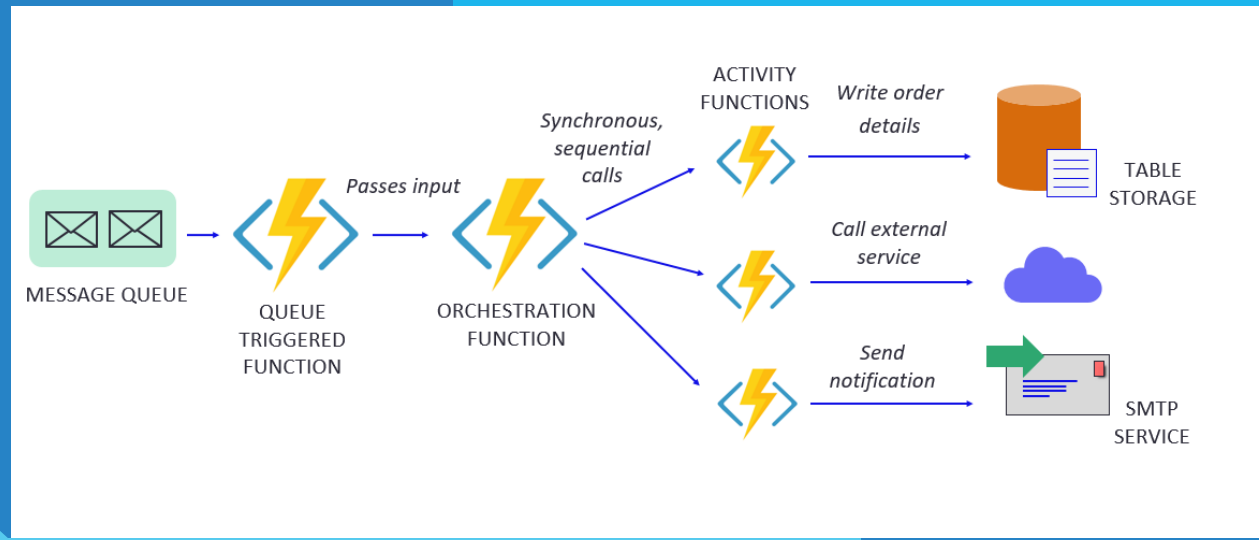


Human Interaction

4



Durable functions



Demo



Anti-Patterns

- Cyclic triggering
- “ Burn the house ” (SQL connections, ...)
- Distributed Monolith
 - A change to one function often requires a change to another function?
- Big data ETL



Thank you

Q / A

