

POWERSHELL CONFERENCE EUROPE 2020

INTERNET, WORLD

JUNE 2-3, 2020

REALTIME COMMUNICATION WITH POWERSHELL - SIGNALR AND AZURE FUNCTIONS

JAN-HENRIK DAMASCHKE

PSCONF.EU 2020 WOULDN'T BE POSSIBLE WITHOUT OUR AWESOME SPONSORS



powershell.one

JanDamaschke

AGENDA

IDEA

TECHNOLOGIES

ARCHITECTURE

SUMMARY





IDEA

REAL-TIME MESSAGING WITH POWERSHELL

EXAMPLE APPLICATION: SESSIONFEED

CHAT WITH YOUR PARTICIPANTS DURING TALKS AND LET THEM DISCUSS

VUE.JS BASED FRONTEND WITH SIGNALR LIBRARY

SERVERLESS POWERSHELL BASED BACKEND WITH AZURE FUNCTIONS



DEMO

SESSIONFEED

SERVERLESS IN A NUTSHELL

PAY-PER-EXECUTION

FULLY MANAGED

HIGHLY SCALABLE IN DEVELOPMENT + OPERATIONS

FAST PROTOTYPING

PLUG AND PLAY EXPERIENCE



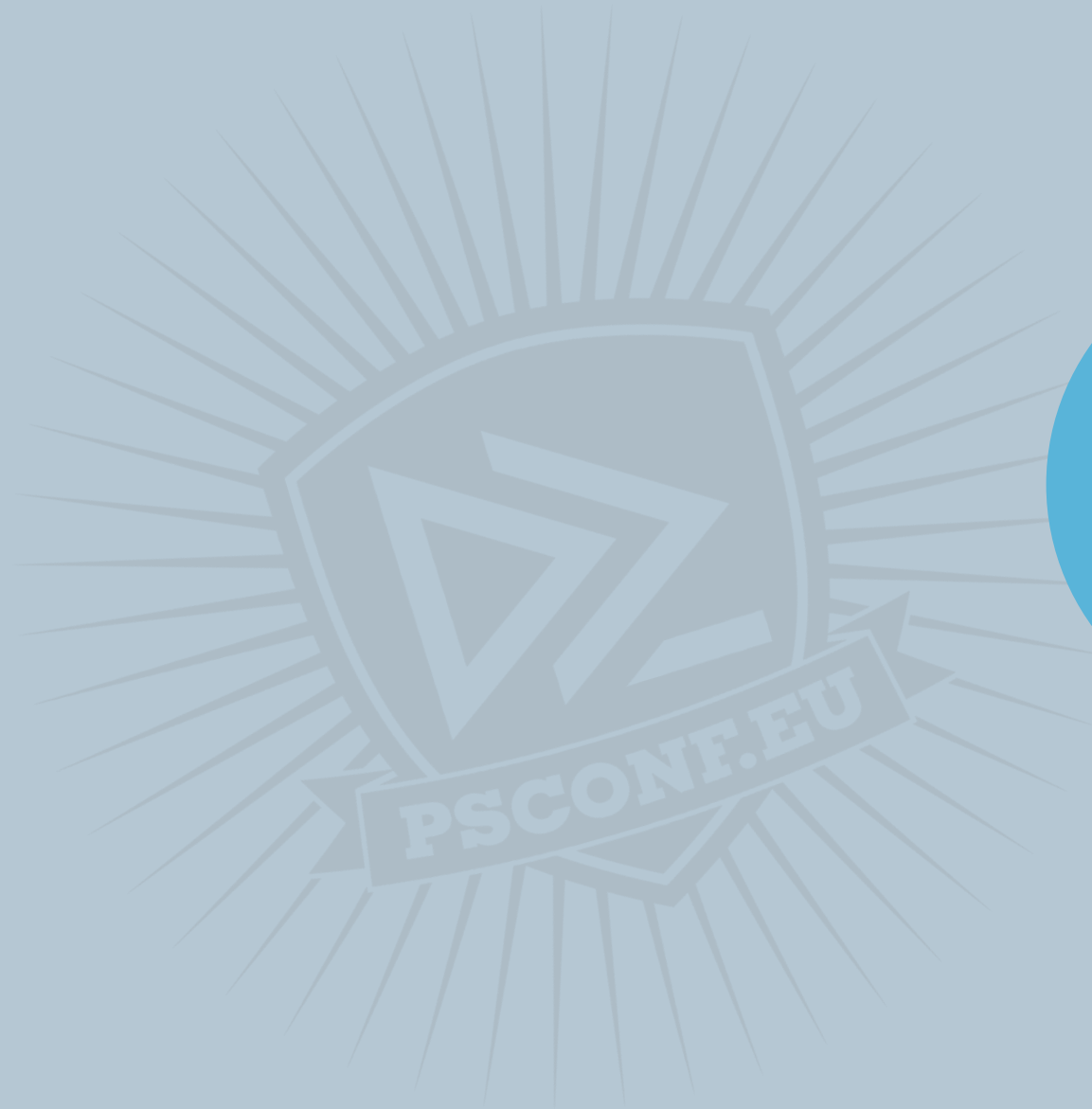
TECHNOLOGIES – SIGNALR

FULLY MANAGED

SERVERLESS MODE

USED FOR:

- MESSAGE BROADCASTING



TECHNOLOGIES – AZURE FUNCTIONS

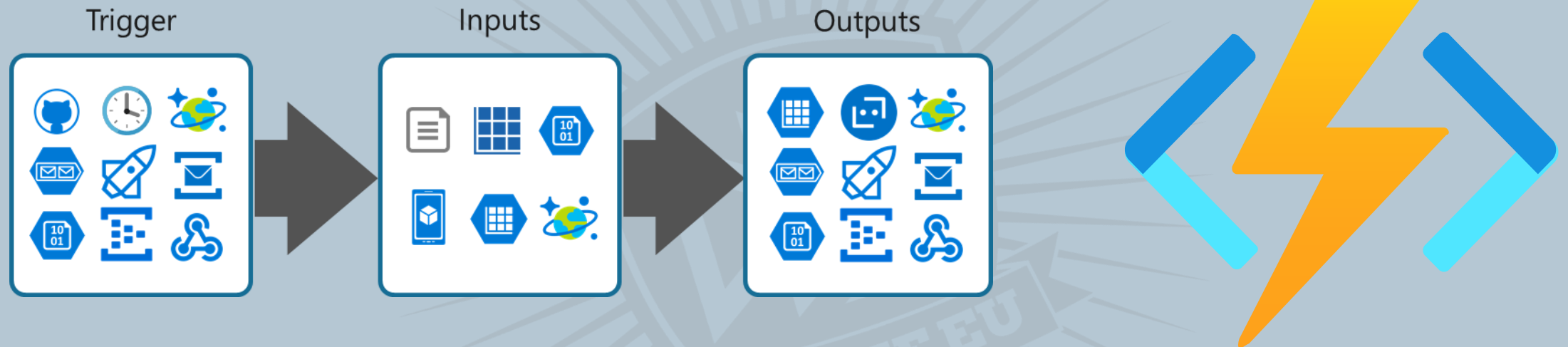
MICROSOFT SERVERLESS OFFERING
TRIGGERS, INPUT AND OUTPUT BINDINGS

USED FOR:

- HTTP ENDPOINTS
- SIGNALR INPUT/OUTPUT BINDINGS
- COSMOS DB INPUT/OUTPUT BINDINGS



TECHNOLOGIES - AZURE FUNCTIONS



TECHNOLOGIES – COSMOS DB

MULTI MODEL DATABASE /W NOSQL ENGINE

GLOBALLY DISTRIBUTED, FULLY MANAGED

CHANGE FEED

USED FOR:

- DATA PERSISTENCY
- EVENT SOURCE FOR BROADCASTING CHANGES



TECHNOLOGIES – AZURE STORAGE

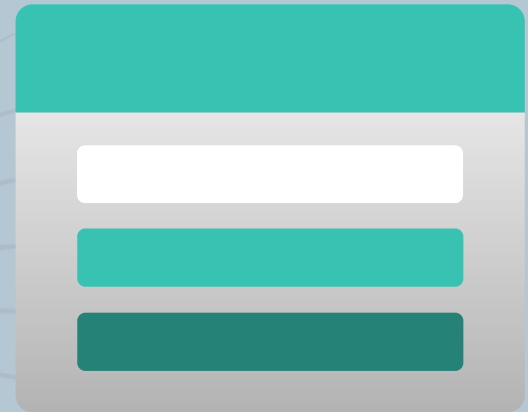
GENERAL PURPOSE STORAGE

BLOB, QUEUE, TABLE, FILE

SIMPLE STATIC WEBSITE HOSTING

USED FOR:

- STATIC WEBSITE HOSTING



TECHNOLOGIES – EVENT GRID

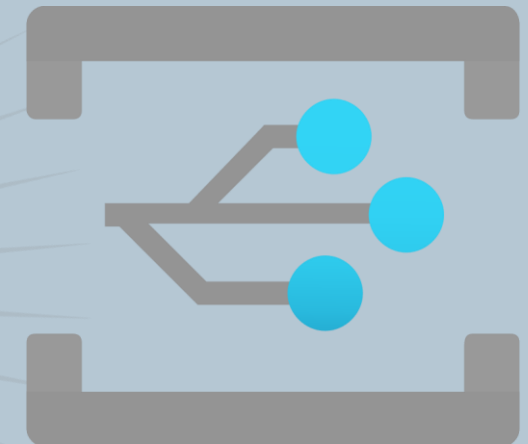
EVENT ROUTING

AZURE INTERNALLY AND CUSTOM EVENTS

BACKEND FOR EVENT-DRIVEN AND SERVERLESS APPS

USED FOR:

- SIGNALR EVENT ROUTING

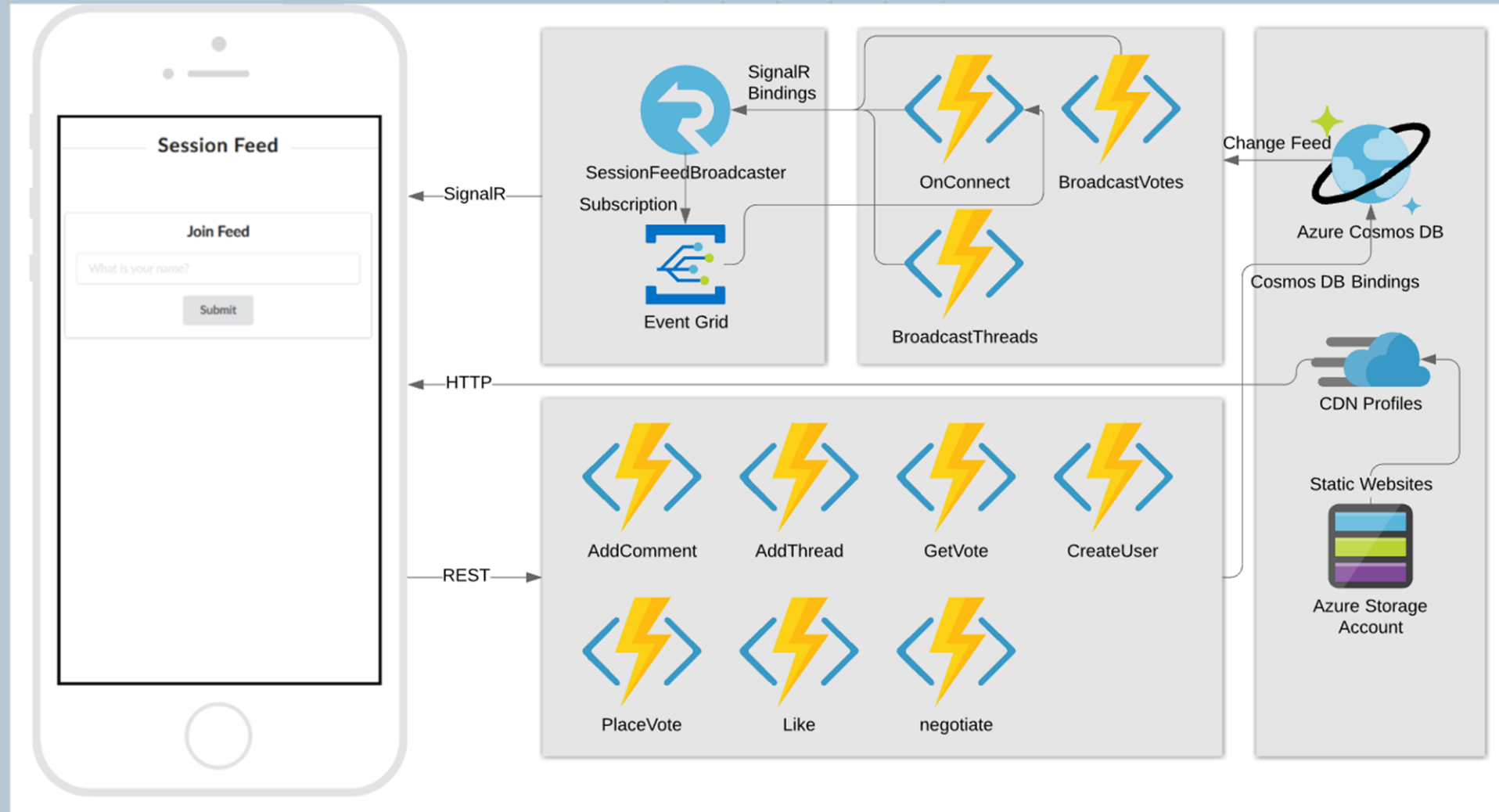




DEMO

AZURE RESOURCES

ARCHITECTURE

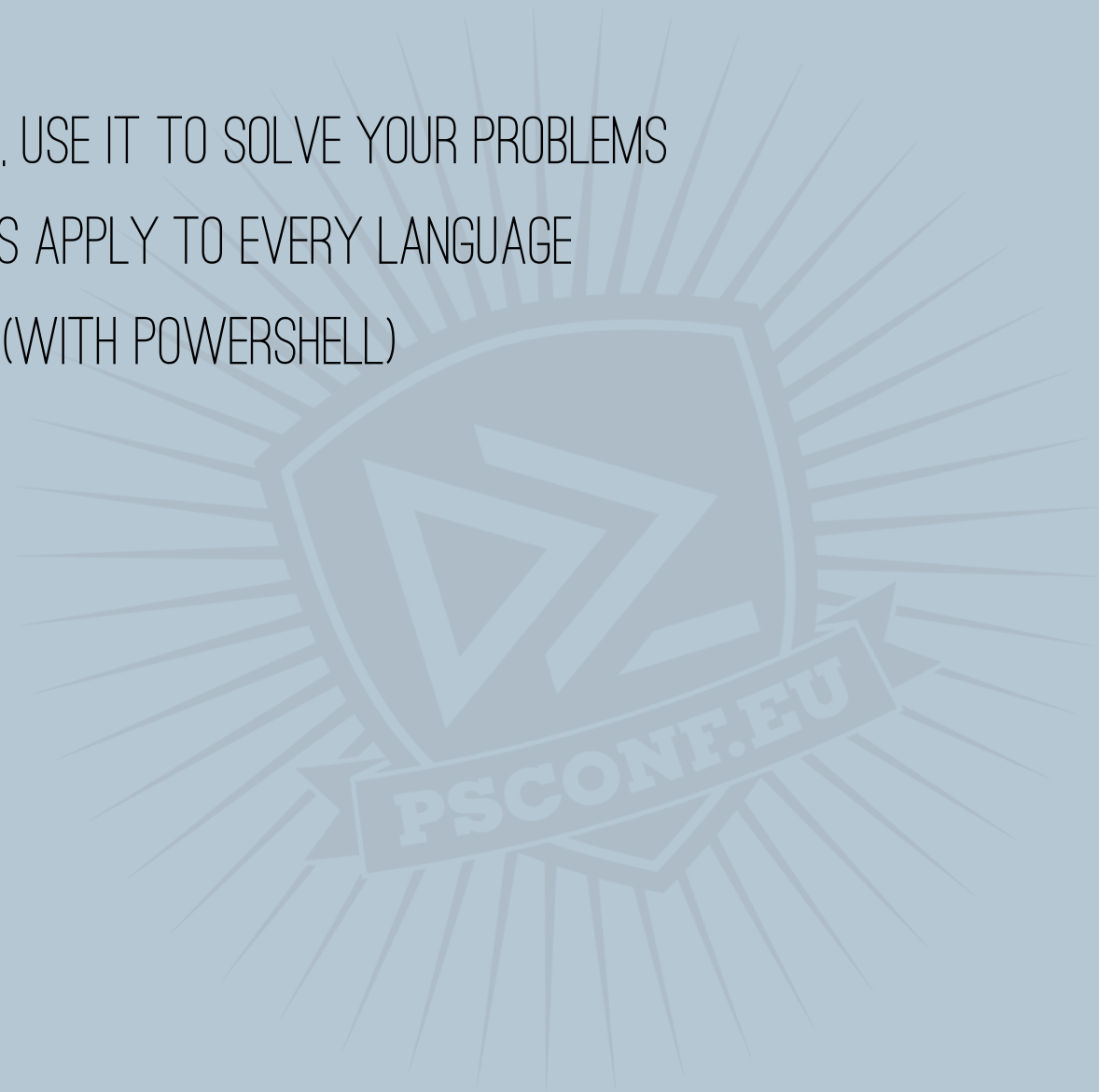


SUMMARY

AZURE IS A FRAMEWORK, USE IT TO SOLVE YOUR PROBLEMS

ARCHITECTURE PATTERNS APPLY TO EVERY LANGUAGE

EVERYTHING IS POSSIBLE (WITH POWERSHELL)



SLIDES + DEMO CODE

```
Start-Process -FilePath https://github.com/psconfeu/2020
```


ABOUT_SPEAKER

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SENIOR CLOUD ARCHITECT, CTO



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NEXT!

PowerShell Conference Europe 2021

Hannover, Germany

June 1-4, 2021

DELEGATE SIGN-UP OPENS NOVEMBER 2020 AT [HTTPS://PSCONF.EU](https://psconf.eu)