







Europe 2019







WHAT ISSUES DID WE FACE ?



HOW DID WE SOLVE THEM?



OpenFaaS



LIVE DEMO







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# What do we do at LivePerson?

"We define Conversational Commerce powered by AI"



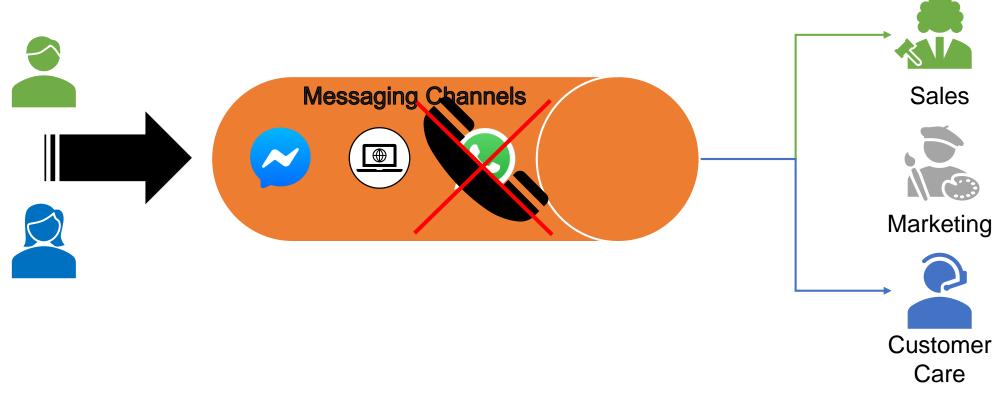


### **Connecting People with Brands**





#### Consumers





#### **Conversational Commerce**





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#### LivePerson Conversational Commerce Platform



Consumer











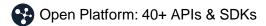












World Class Private Cloud & Managed Services





BI, CRM, e-Commerce WFM



Google, IBM Watson, Microsoft - any open platform





What issues were we facing?





### **Too many Feature Requests**



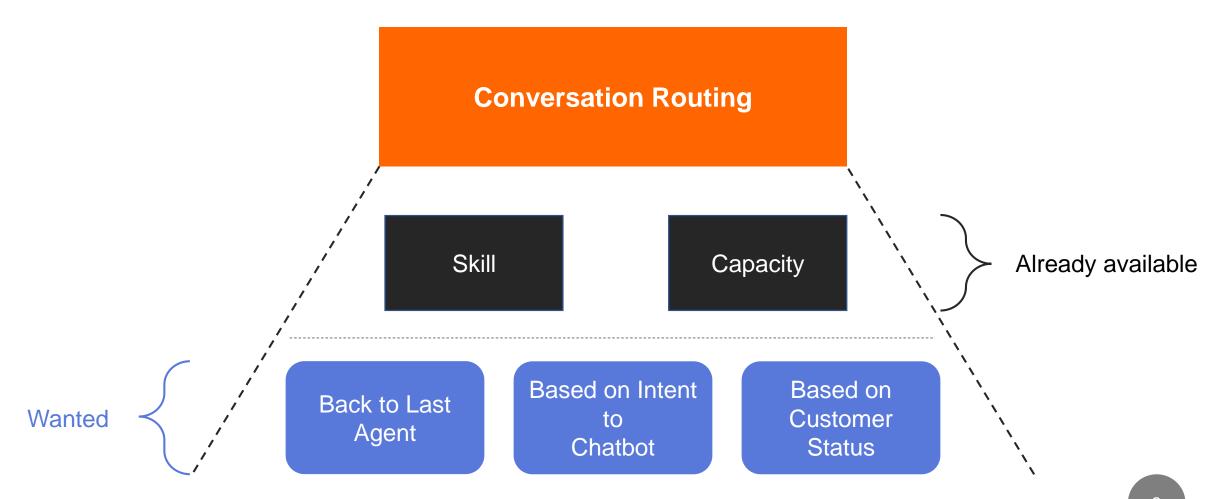


Marketing Customer **Consumer Adoption Increasing Usecases** Care Consumer Acceptance Sales

## ? Unique Requests













 $\sum$ 

High Time-To-Market



Maintenance efforts SDKs /APIs



Keeping
Documentation
Up-To-Date

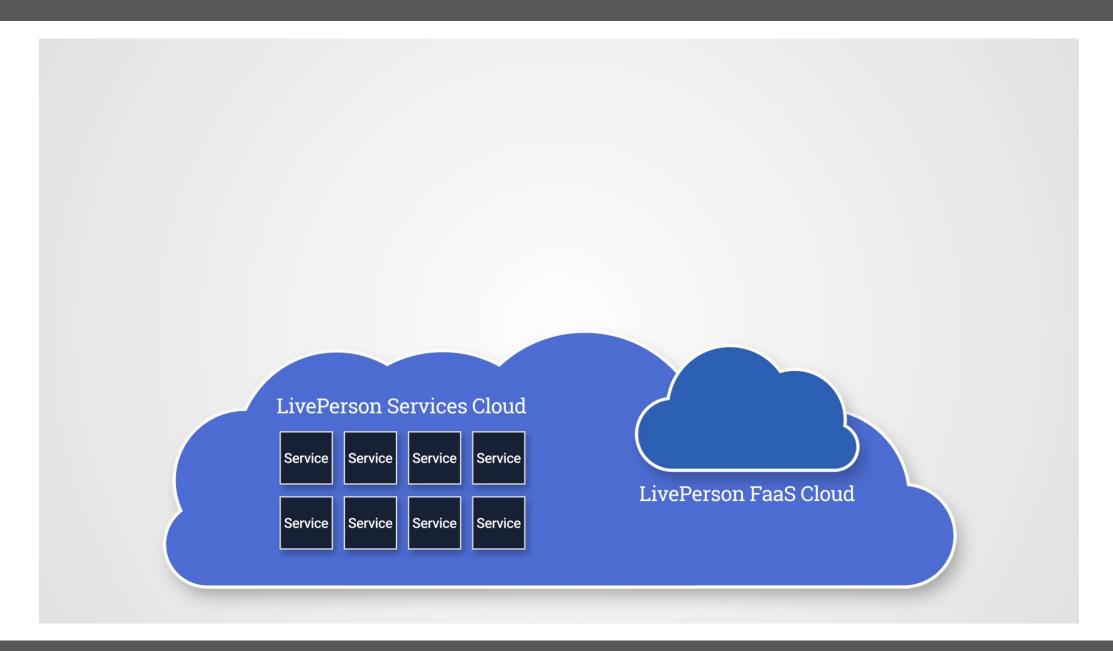




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# How did we solve them?



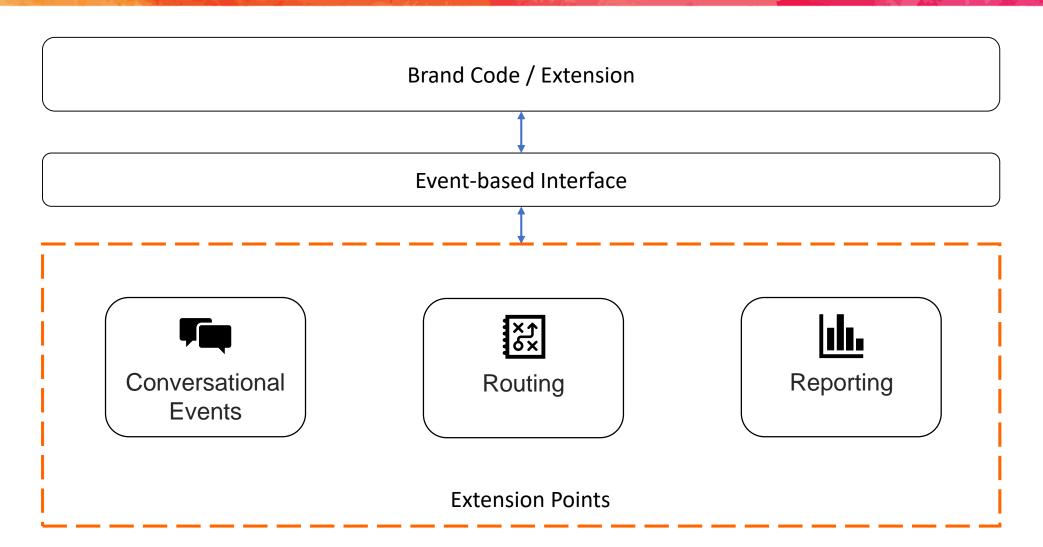




### Allow customizing of the Platform Kubecon









### Developer focused API's





**Developer Center** 

Reduced Time-To-Market

OpenFaaS @ Heart

**Predefined Templates** 

One-Click Deployment



24

### **Editor Experience**





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```
CSAT_Example
                      CLOSE
     function lambda(input, callback) {
         let allSurveyEmails = [];
         //csatRank value range: 1-5, 1=very dissatisfied, 5=very satisfied
         let csatRank = input.payload.csatRank > -1 ? input.payload.csatRank : null;
         let skillName = input.payload.skillName;
         let agentName = input.payload.agentName;
         let questionsAndAnswers = input.payload.questionsWithAnswers;
         if (csatRank && csatRank <= 3 &&
             input.payload.skillName.match(/CustomerCare/i) !== null &&
 9
             input.payload.agentName.match(/John Doe/i) !== null) {
10
             let surveyEmail = {
11
                targetEmail: 'ReplaceMe@company.com',
12
13
                senderName: 'Sender X',
                senderEmail: 'ReplaceMe@company.com',
14
                subject: 'Email Transcript Notification',
15
16
17
             surveyEmail.se
         function()
                                                   (property) senderEmail: string ()
18
                           19
                           20
             allSurveyEmail [\surveyEmail
21
                           22
         //Return result
                          TskillName
23
         callback(null, all [allSurveyEmails
```

```
<>
        SETTINGS
                                         PAYLOAD
         "headers": [],
         "payload": {
             "csatRank": 3,
             "agentName": "John Doe",
             "skillName": "CustomerCare",
              "questionsWithAnswers": [
                      "answer": "No".
 9
                      "question": "Was the chat helpful?"
10
11
12
13
14
```



## **Deployment View**





Review deployment

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Select function

Review your deployment APPROV

CANCEL

Description: Extention that provides information to the user on current offerings.

UUID: ebe20d28-2731-4761-9047-736b6b2abbfa

Event: Messaging New Conversation

Last modified at: 13.05.2019 - 06:22 UTC

Last deployed at: -

Runtime: Node.js 10

Dependencies: -

Environment variables: -

Source code:

```
function lambda(input, callback) {
         // Set conversation data.
3
         let conversation = input.payload;
         // Some processing ...
         // Result can be either an object or array.
         // Hint: Make sure to only return each type once.
         let result = [
9
                 type: "systemMessage", // Returns a system message into the conversation.
10
                 text: "your messdage"
11
             },
12
13
                 type: "transfer", // Transfers the conversation to a new skill.
14
                 skillId: "123456"
15
             },
16
17
                 type: "closeConversation" // Closes the conversation.
18
19
         ];
20
         callback(null, result);
21
```

 Deployed Functions ↑
 Undeployed changes from
 Last successful deployment
 Deployment state
 Actions

 InformUser
 13.05.2019 - 06:27 UTC
 Pending ...
 Deploy Start
 INVOKE
 MORE

Refreshing every 5 seconds...





### OpenFaaS

Serverless Functions Made Simple





### OpenFaaS





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FOUNDED BY ALEX ELLIS IN NOV/16



> 17K STARS ON GITHUB (MIT)



> 200 CONTRIBUTORS



2x BOSSIE AWARDS



**PRODUCTION USERS** 



#### OpenFaaS end-user community













Dim Solution.

















































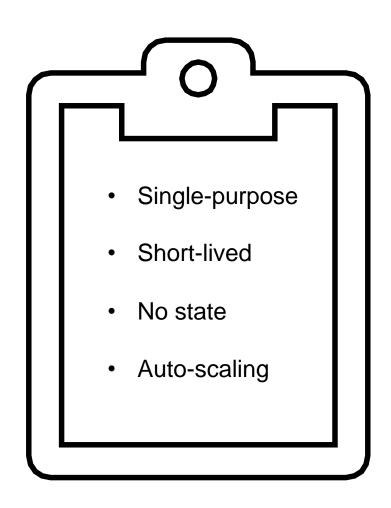


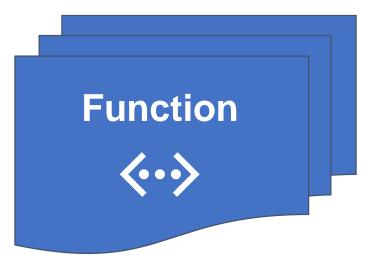


#### What are Functions?









Citation: "Functions as a Service (2016)" by Alex Ellis

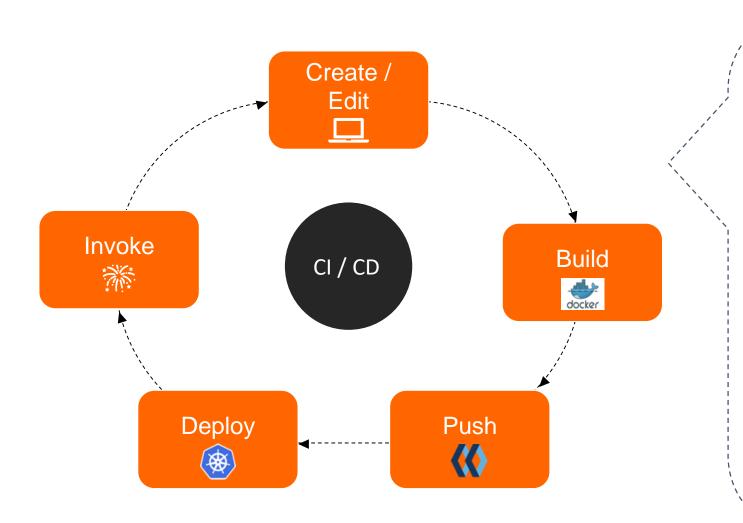


### Function Lifecycle





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\$ faas-cli new --lang python uptime

#### handler.py

```
def handler(req):
    r = requests.get(req)
    return str(r.status code)
```

#### requirements.txt

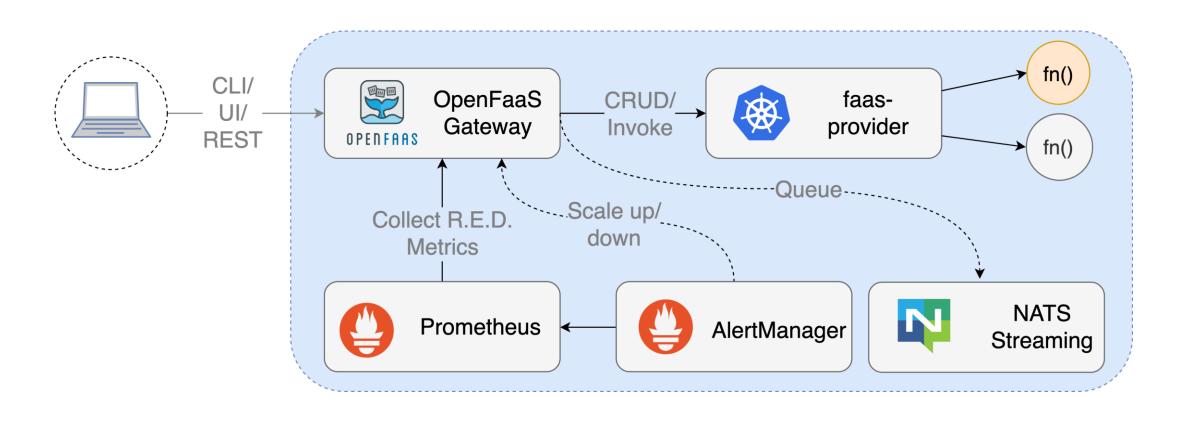
requests

\$ faas-cli up











### OpenFaaS Ecosystem







#### **Functions Store**

An ecosystem for sharing, reusing and collaborating on functions



#### **Templating system**

Reduce boilerplate code, share code in the templates store



#### **Functions or Microservices**

Deploy existing microservices using Express.js, Sinatra, ASP.NET Core or simplify with functions.







Any code

Anywhere

Any scale

















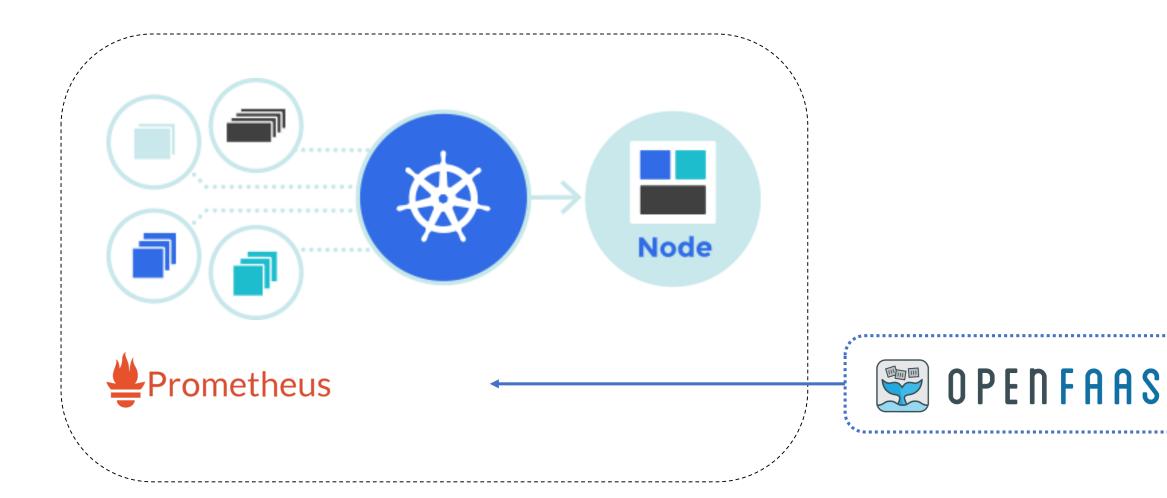


## **Benefits for LivePerson**





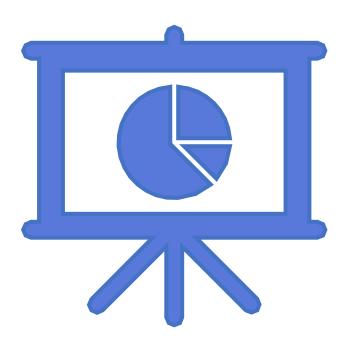
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Demo Time



### Conditional sending of Emails





Thank you Overall, how satisfied were you with the service you received on your most recent contact with Great Bank? \* Very Satisfied Are you satisfied with the found solution? \* Yes ☐ No On a Scale from 1 [very unlikely] to 5 [very likely], how likely are you to recommend our service? Submit Cancel

#### Rules

#### **Send Email to Manager when:**

- Dissatisfied / Very Dissatisfied
- Agent was not helpful

#### Send Email to Customer when:

- When Email Address was provided













- Secret Management powered by Vault
- Active Debugging
- Conversational Commands

- OpenFaaS Cloud multi-user platform
- Gateway federation for multiregion
- Brand new website launched! www.openfaas.com





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# Thank you for your attention!

liveperson.com openfaas.com