HW-2 Answers

COEN 241 : Cloud Computing

1.What is the command to invoke the slack-request function?

a.Via Curl

curl -X POST http://localhost:8080/function/slack-request

b.Via faas-cli

faas-cli invoke slack-request

2.What is the output you see when you invoke the slack-request function?

```
{
  "text": "Serverless Message",
  "attachments": [
   {
     "fields": [
      {
        "short": true,
        "value": "100",
        "title": "Amazing Level"
      }
     ],
     "author_icon": "https://avatars.githubusercontent.com/u/17161929?v=4",
     "image_url":
"https://www.fastmetrics.com/blog/wp-content/uploads/2014/10/cloud-comp
uting-service-types-including-IoT-1024x706.png",
     "author_name": "Abhilash Harish Srivathsa",
     "title": "The Awesome world of Cloud Computing! COEN 241"
   },
   {
     "text": "COEN 241 is the most awesome class ever!.",
     "title": "About COEN 241"
   },
```

```
  {
    "title": "Would you recommend COEN 241 to your friends?",
    "color": "#3AA3E3",
    "actions": [
      {
        "text": "Of Course!",
        "type": "button",
        "name": "recommend",
        "value": "recommend"
      },
      {
        "text": "Most Definitely!",
        "type": "button",
        "name": "definitely",
        "value": "definitely"
      }
    ],
    "callback_id": "response123",
    "fallback": "Would you recommend COEN 241 to your friends?",
    "attachment_type": "default"
  }
 ]
}
```

3.What is the command to invoke the slack-interactive function?

a.Via curl
```
curl -d '{"Hello":"COEN 241"}' -X POST
http://localhost:8080/function/slack-interactive
```

b.Via faas-cli
```
echo '{"Hello":"COEN 241"}' | sudo faas-cli invoke slack-interactive
```
4.What is the output you see when you invoke the slack-interactive function?
```
{
  "attachments": [
    {
```

        "footer": "Slack Apps built on OpenFaas",
        "author_link": "https://github.com/abhi-srivathsa",
        "color": "#36a64f",
        "text": "Head over to COEN 241",
        "title": "COEN 241",
        "ts": 123456789,
        "author_name": "Abhilash Harish Srivathsa",
        "title_link":
"https://www.scu.edu/engineering/academic-programs/department-of-comp
uter-engineering/graduate/course-descriptions/",
        "image_url":
"https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity
-amp-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png
",
        "response_type": "ephemeral",
        "replace_original": true,
        "footer_icon":
"https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash
_256.png",
        "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!",
        "fallback": "Required plain-text summary of the attachment.",
        "thumb_url":
"https://www.scu.edu/engineering/academic-programs/department-of-comp
uter-engineering/graduate/course-descriptions/",
        "author_icon": "https://avatars.githubusercontent.com/u/17161929?v=4"
    }
  ]
}

5.How would you pass different arguments to the functions?

In the YAML file, we can specify build options, build-args, Environmental variables, Secure secrets, Constraints, and other configurations under each function.

We can also pass json objects as request objects either using echo, -d option or stdin while invoking them.

6.How would you change the slack-interactive function to react to different inputs?

We can use a Dictionary data structure (key-value pairs) to retrieve and react to different inputs to the slack-interactive function.