

Homework 2 - Serverless Infrastructure Report

1. What is the command to invoke the slack-request function (4 pts)?
 - a. Via Curl
 - curl 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? (2 pts)
 - {"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://avatars.githubusercontent.com/u/56777804?s=400&v=4", "author_name": "Prajwal Bellignur", "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? (4 pts)
 - a. Via curl
 - curl localhost:8080/function/slack-interactive -d '{"name\\":\\"Prajwal\\", "message\\":\\"This is sample message for COEN 241\\"}'
 - b. Via faas-cli
 - echo '{"name\\":\\"Prajwal\\", "message\\":\\"This is sample message for COEN 241\\"}' | faas-cli invoke slack-interactive
4. What is the output you see when you invoke the slack-interactive function? (2 pts)
 - {"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/Prajwal-Bellignur/COEN-241.git", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name":

```
"Prajwal Bellignur", "title_link": "https://www.scu.edu/engineering/academic-
programs/department-of-computer-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-computer-
engineering/graduate/course-descriptions/", "author_icon":
"https://avatars.githubusercontent.com/u/56777804?s=400&v=4"}]}
```

5. How would you pass different arguments to the functions? (4 pts)
 - To pass in different arguments to the functions using the curl command, we can use the -d flag or we can use query params to pass in any arguments for the functions.
 - To pass in different arguments to the functions using the faas-cli we would use the echo command to pass in the argument and then the | followed by the faas-cli command to invoke the function. For this, it is important to change the code in a way that it takes in certain arguments when invoking the functions.
6. How would you change the slack-interactive function to react to different inputs? (4 pts)
 - We would change the function to take in different query parameters (for example) through the curl command using query params. We can then change the function to handle different inputs and do different things based on those inputs. For example, based on which query command is passed in, we can have the slack-interactive function do different things.