UW Research Study – #00016658

Addressing Serverless Computing Vendor Lock-In through Cloud Service Abstraction

Di Mo dimo@uw.edu
Fall 2022
School of Engineering and Technology
Masters in Computer Science and Systems program

UNIVERSITY *of* WASHINGTON

What is this study about?

In the study we will investigate code migration from the Amazon Lambda Function-as-a-Service (FaaS) platform to the Google Cloud Functions FaaS platform.

This study will be conducted as a timed tutorial activity.

All students in Fall 2022 TCSS 462/562 will be assigned the code migration tutorial.

Full credit will be awarded for participation in the activity regardless of correctness or outcome.

Study Participation

Only students who consent to participate in the study will have their data/artifacts considered in the evaluation

Only students who successfully complete Tutorial 4 and 5 by November 23rd are eligible to participate in the study

> **Minor issues okay**

If consenting to participate, you will be asked to:

> **Pre-trial survey, 1-3 minutes**
> **Multiple-choice survey to assess Java programming experience/familiarity, 10 to 20 minutes**
> **Code Migration activity (Assignment for the classes).**
>   – **Location: Onsite (BHS 104) or Online option**
>   – **Time: December 1st, starting at 5:50 pm**
> **Post-trial Survey, 1-3 minutes**

Onsite Participation – December 1st

Code migration activity: hosted as a 'Hackathon' style event in BHS 104 on Thursday Dec 1st starting at 5:50p

*Individuals should provide their own computer with ready-to-use development environment *(looking into lab)*

Pizza will be provided

The activity will start at 6pm. Space available until ~9pm. Researchers will be available to answer questions.

Remote Participation – December 1st

Code migration activity: hosted as a 'Hackathon' style event. The activity be co-hosted via zoom starting at 6pm.

Individuals should provide their own computer with ready-to-use development environment

Researchers will be available to answer questions through Zoom

Pizza unavailable via Zoom

Completing Tutorial 8 – if not in the study

Tutorial 8 must be completed by December 9th

Instructor available for questions

Submit code via Canvas

Full credit will be awarded for participation in the activity regardless of correctness or outcome.

Benefits

If you participate in study,

you will be awarded $~20* Amazon gift Card.

Pizza will be provided for in-person participants in BHS 104 on December 1st (RSVP req'd)

* - actual value dependent on number of study participants
$10 is minimum expected award

How to participate?

You will receive a email with consent form and instructions.

Sign and return the consent form, or instead of signing the form respond to the email and give consent

     State in your email response:

     'I give the researchers consent to use my data in the code migration study.'

What will happen to the information you provide?

The information you provide will be kept confidential. Only our study team will have access to your code and survey answers.

Dropping out of the study

You can terminate your participation in the study at any time by providing written notification.

You will not be rewarded a gift card.

The tutorial (#8) should still be attempted for TCSS 462/562 credit.

W

For questions or more information

Contact the study team.
Di Mo : dimo@uw.edu
Wes Lloyd: wlloyd@uw.edu

Talk to someone else. If you want to talk with someone who is not part of the study team about the study, your rights as a research subject, or to report problems or complaints about the study, contact the UW Human Subjects Division at hsdinfo@uw.edu or 206-543-0098.

W