CSCI4795 Spring 2020 Cloud Computing PA#2

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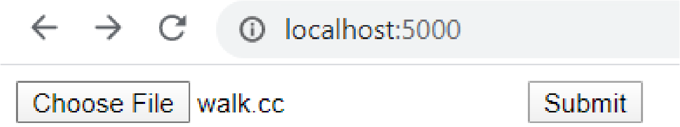
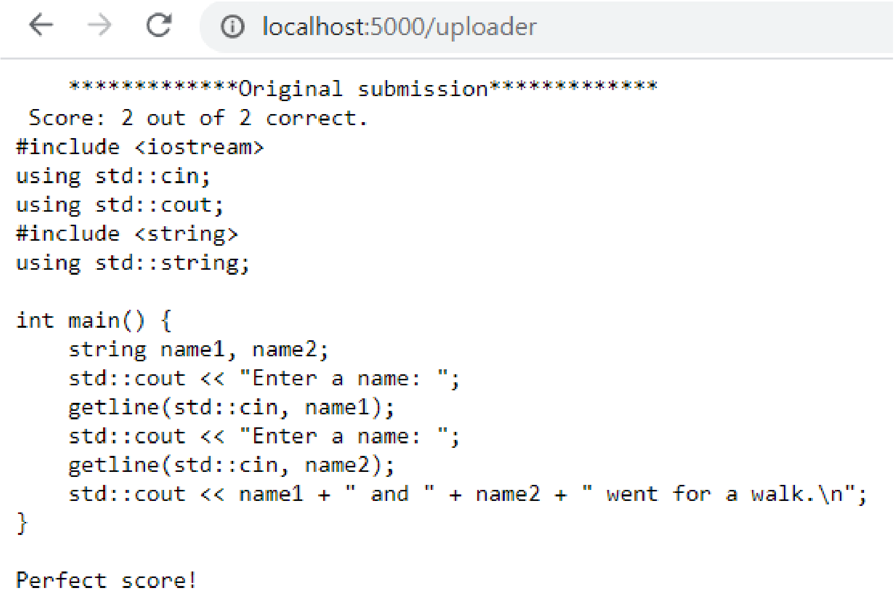
Instructions: Fill in your answers to the 3 questions and SUBMIT A PDF to eLC (along with your code)

1. After completing Part 2 ("Auto-grader basic system"), cut-and-paste three screenshots: [1] the web submission screen, [2] the results screen with correct submission (after your autograder has executed), and [3] the result screen with wrong submission. If you were unable to complete this part, explain how far you were able to get and describe the problem (you were unable to debug).



a.

b. Correct submission:

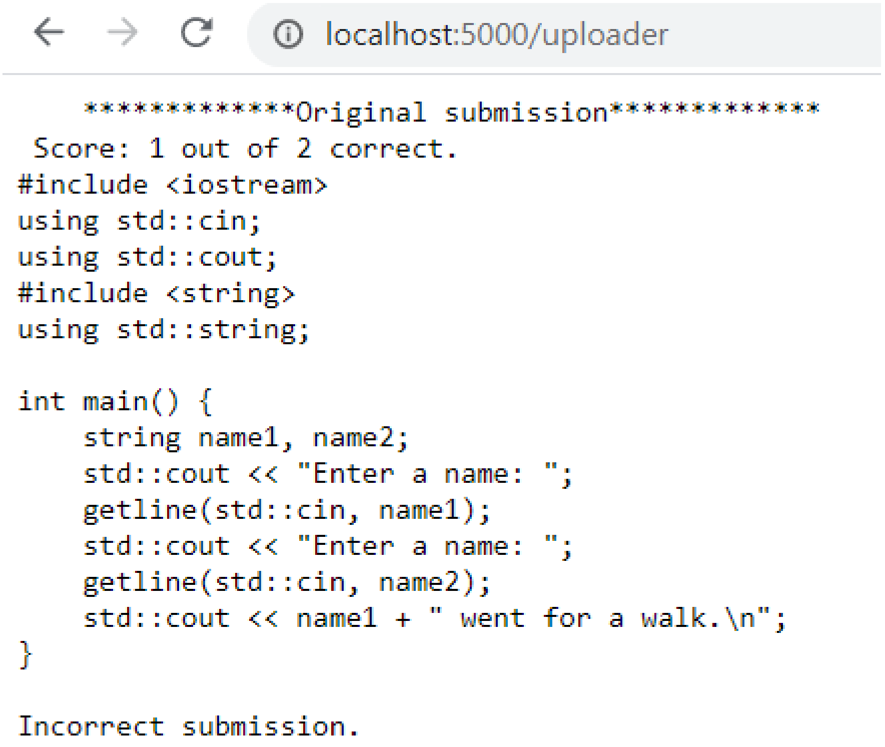


```
    *************Original submission*************
 Score: 2 out of 2 correct.
#include <iostream>
using std::cin;
using std::cout;
#include <string>
using std::string;

int main() {
    string name1, name2;
    std::cout << "Enter a name: ";
    getline(std::cin, name1);
    std::cout << "Enter a name: ";
    getline(std::cin, name2);
    std::cout << name1 + " and " + name2 + " went for a walk.\n";
}

Perfect score!
```

c. Wrong submission:



```
    *************Original submission*************
 Score: 1 out of 2 correct.
#include <iostream>
using std::cin;
using std::cout;
#include <string>
using std::string;

int main() {
    string name1, name2;
    std::cout << "Enter a name: ";
    getline(std::cin, name1);
    std::cout << "Enter a name: ";
    getline(std::cin, name2);
    std::cout << name1 + " went for a walk.\n";
}

Incorrect submission.
```

2. After completing Part 3 ("Docker-based Auto-Grader"), choose one:

_____X_____ I **was able** to successfully complete Part 3, "Docker-based Auto-Grader"

___________ I **was unable** to successfully complete Part 3, "Docker-based Auto-Grader". Here's what I got stuck on or here's why I could not complete it (explain, 5 sentences or less):

ALSO attach this source code file to your eLC submission (ZIP format).

3. After completing Part 4 ("Docker in AWS: Elastic Beanstalk"), choose one:

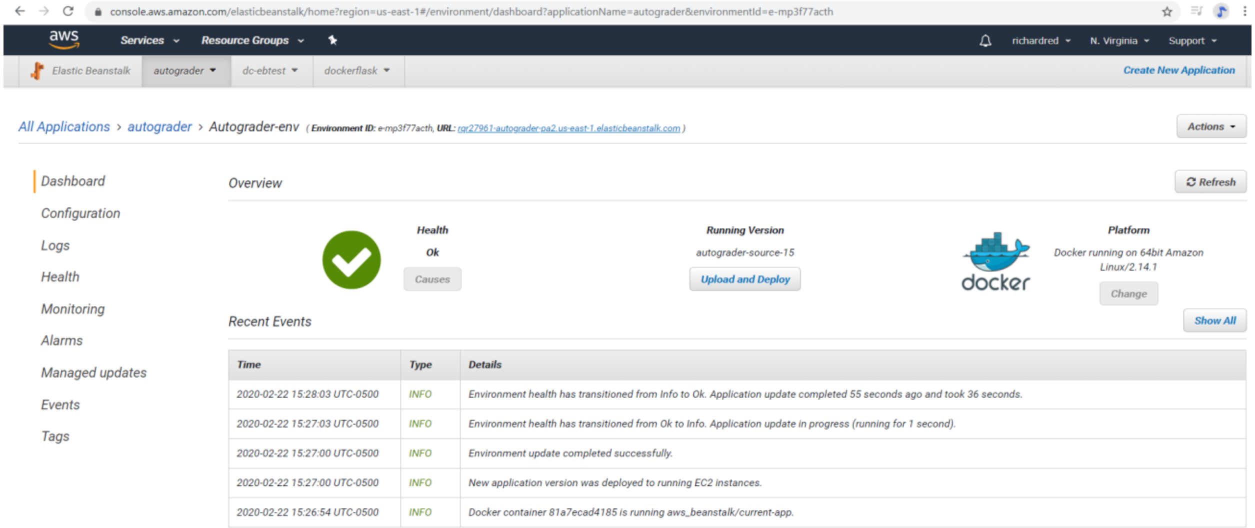
_____X_____ I **was able** to successfully complete Part 4, "Docker in AWS: Elastic Beanstalk"

___________ I **was unable** to successfully complete Part 4, "Docker in AWS: Elastic Beanstalk". Here's what I got stuck on or here's why I could not complete it (explain, 5 sentences or less):

ALSO attach autograder_beanstalk_config.txt to eLC submission (ASCII format)

If you successfully completed, cut-and-paste [a] the AWS screen of your Elastic Beanstalk “autograde” application screen, [b] the browser page to your Elastic Beanstalk-based student submission portal, and [c] the browser page to your Elastic Beanstalk-based results page (after a student submission has been auto-graded). To receive full credit, URL must be shown in the screenshots.

a. AWS screen of Elastic Beanstalk autograde application screen:



console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/environment/dashboard?applicationName=autograder&environmentId=e-mp3f77acth

All Applications > autograder > Autograder-env (**Environment ID:** e-mp3f77acth, **URL:** rqr27961-autograder-pa2.us-east-1.elasticbeanstalk.com)

Overview

Health
Ok

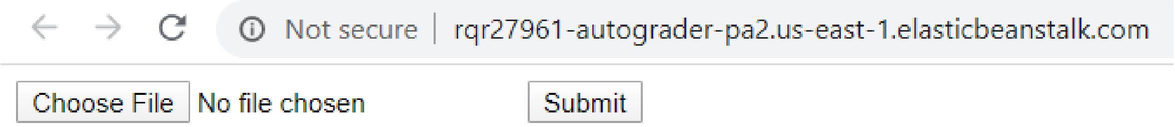
Running Version
autograder-source-15

Platform
Docker running on 64bit Amazon Linux/2.14.1

Recent Events

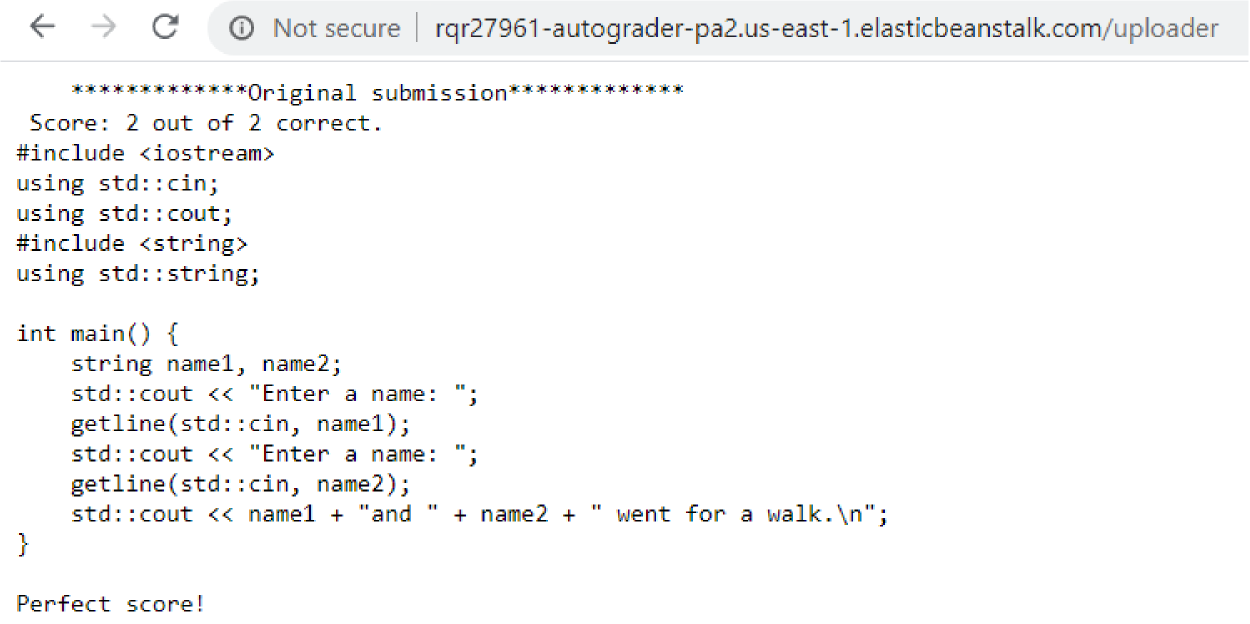
Time	Type	Details
2020-02-22 15:28:03 UTC-0500	INFO	Environment health has transitioned from Info to Ok. Application update completed 55 seconds ago and took 36 seconds.
2020-02-22 15:27:03 UTC-0500	INFO	Environment health has transitioned from Ok to Info. Application update in progress (running for 1 second).
2020-02-22 15:27:00 UTC-0500	INFO	Environment update completed successfully.
2020-02-22 15:27:00 UTC-0500	INFO	New application version was deployed to running EC2 instances.
2020-02-22 15:26:54 UTC-0500	INFO	Docker container 81a7ecad4185 is running aws_beanstalk/current-app.

b. Beanstalk based student submission portal:



rqr27961-autograder-pa2.us-east-1.elasticbeanstalk.com

c. Beanstalk based results page:



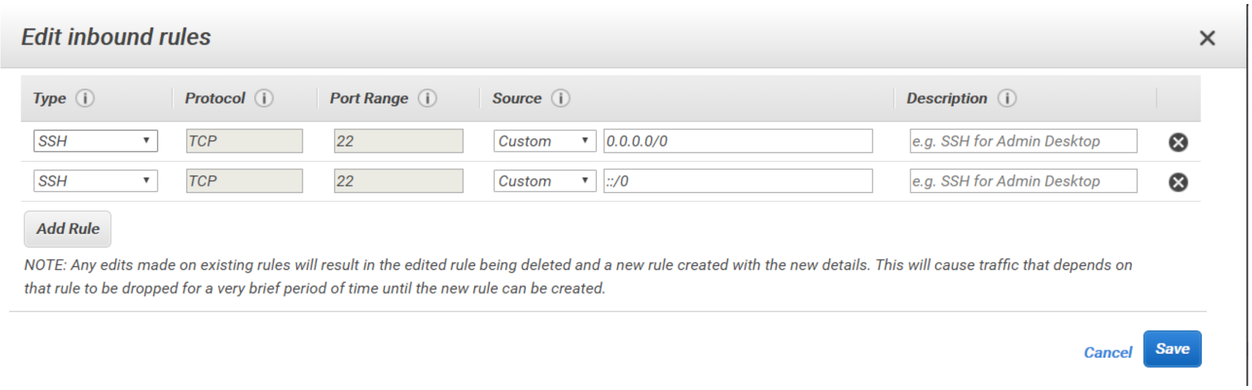
rqr27961-autograder-pa2.us-east-1.elasticbeanstalk.com/uploader

```
    *************Original submission*************
 Score: 2 out of 2 correct.
#include <iostream>
using std::cin;
using std::cout;
#include <string>
using std::string;

int main() {
    string name1, name2;
    std::cout << "Enter a name: ";
    getline(std::cin, name1);
    std::cout << "Enter a name: ";
    getline(std::cin, name2);
    std::cout << name1 + "and " + name2 + " went for a walk.\n";
}

Perfect score!
```

4. Go to AWS console, on the left top of the console page, please select "Service" → "EC2" → "Security Groups on left menu". Then check the security group used in PA2, click "action (top)" → "edit inbound rules", and then cut-and-paste a snapshot of the inbound rules.

   a. 

Edit inbound rules

Type	Protocol	Port Range	Source		Description
SSH	TCP	22	Custom	0.0.0.0/0	e.g. SSH for Admin Desktop
SSH	TCP	22	Custom	::/0	e.g. SSH for Admin Desktop

Add Rule

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

After this question, delete AWS beanstalk application after terminating environment.