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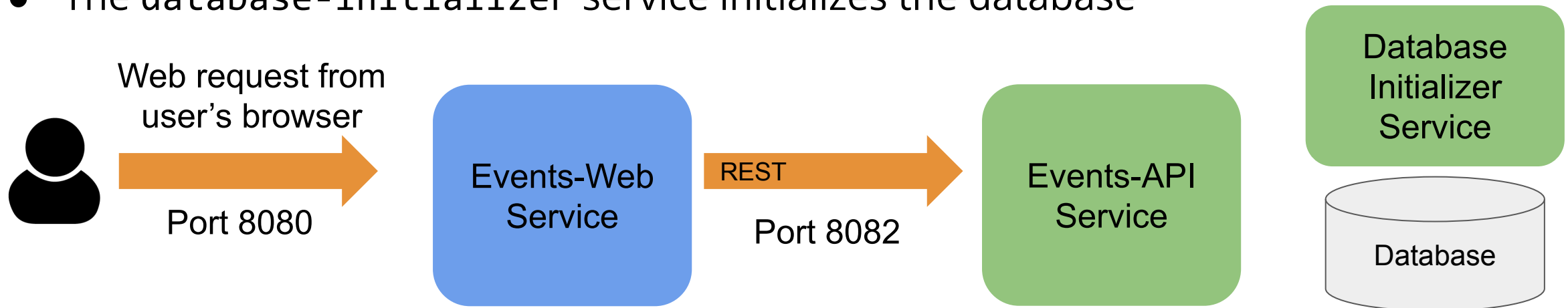
# Activity: Running the Case Study App

# The Case Study App

- The case study app is a simple app to store and view events
  - Provides the basis of a simple app a company could use to announce events, news, and important messages
  - Written in Node.js as three microservices
- This course focuses on containering the application and running it on Kubernetes
  - This course does not cover developing/coding the application

# About the Case Study App

- The Events App is comprised of three microservices
- The events-api service receives REST requests on port 8082
  - Saves the event data
  - And returns event data
- The events-website service is a web frontend
  - Displays JSON data from events-api using an HTML template
- The database-initializer service initializes the database



# A Database Will Be Added Later

- Currently, the app does not use a database
  - The database will be added later in the course
  - The database-initializer service will not be used until then
- For now, the events-api service just stores the events data in a local array
  - Which means the data is not persistent

# Download the Events App

- In Cloud Shell:
  - Make a new folder and change into it  
`mkdir eventsapp`  
`cd eventsapp`
  - Initialize the folder for Git and pull the Git repo with the case study  
`git init`  
`git pull https://github.com/stevelockwood/eventsappstart.git`
  - Verify several folders and a README now exist  
`ls`

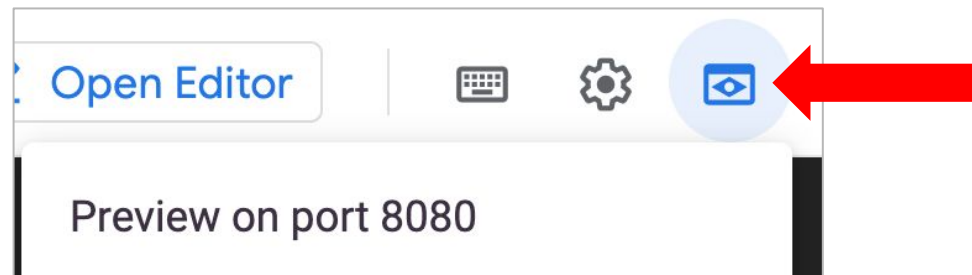
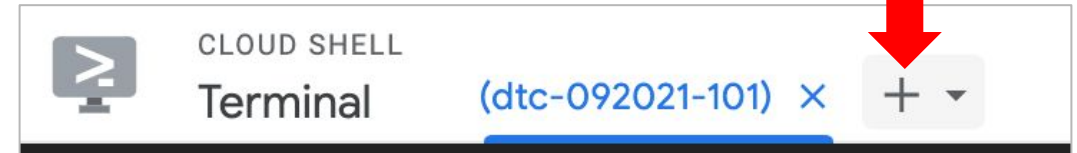
```
$ ls
database-initializer  events-api  events-website  HPA-demo  README.md  statefulset-demo
$
```

# Running the events-api Service

- In Cloud Shell:
  - Change into the events-api folder  
`cd events-api`
  - Run the following commands to install dependencies and run the service:  
`npm install`  
`node server.js`
- Leave the service running

# Running the events-website Service

- Open a new Cloud Shell tab (session) by clicking the + button
- In the new Cloud Shell tab:  
`cd ~/eventsapp/events-website/`  
`npm install`  
`npm start`
- Both services should now be running
- Once the app is running in Cloud Shell, it can be tested with the Preview on port 8080



# Testing the Events App

- The app has two sample events hard coded as shown below
- Use the **Add an event** button to add additional events

## [Your Name]'s Events App

Add an event

### Company Pet Show

Super-fun with furry friends!

When: November 6 at Noon  
Where: Reston Dog Park

👍  
Likes: 0  
2021-09-30:12:00

### Company Picnic

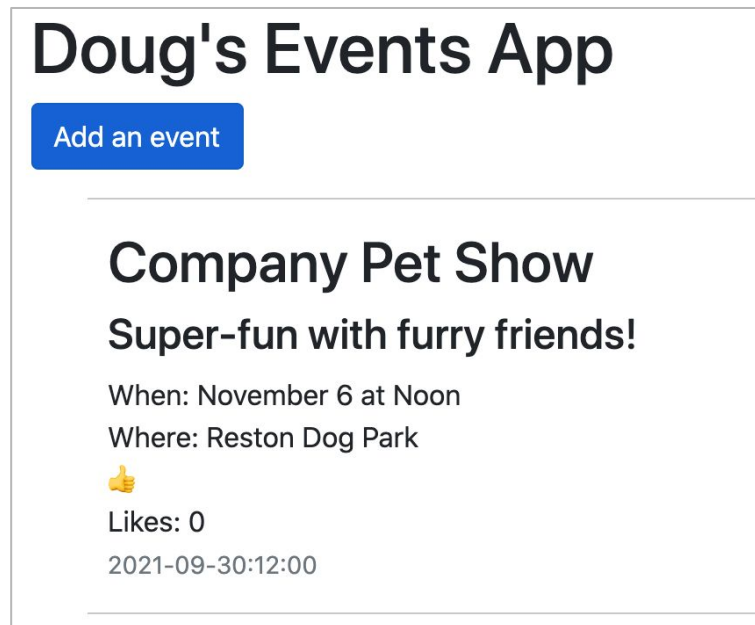
Come for free food and drinks.

When: July 4th at 10:00AM  
Where: Central park



# Customizing the events-website

- Using the Cloud Shell editor, edit the following file and change [Your Name] to your name in two places:  
</eventsapp/events-website/views/layouts/default.hbs>
- Reload the site or preview it again to verify the changes



# Stopping the App

- Stop the services by pressing **CTRL+C** in both Cloud Shell tabs
  - Don't worry if you see an error in the events-api terminal
  - That is because we are not using a database yet
- **Congratulations!** You have successfully downloaded and run the case study app