



# Training & Certification

## Lab 4.2 - Stream Some Content

The following code creates a stream with a built in delay when the `stream` function is called:

```
const { Readable, Transform } = require('stream')

function stream () {
  const readable = Readable.from([
    'this', 'is', 'a', 'stream', 'of', 'data'
  ]).map((s) => s + '<br>'))
  const delay = new Transform(({
    transform (chunk, enc, cb) {
      setTimeout(cb, 500, null, chunk)
    }
  }))
  return readable.pipe(delay)
}
```

Using either Fastify or Express, create a new route at path `/data` and send the data from this stream to the response when the `/data` route is requested.

The labs-2 folder contains a file named `validate.js`. Make sure the server that the `/data` route was added to is running in another terminal, then with the current working directory set to the `labs-2` folder, run the following to check the implementation:

```
node validate
```

If successful the following output should be the result of this command:

A terminal window with a dark background and light gray text. The window title bar shows three colored circles (red, yellow, green) on the left, the text 'zsh' in the center, and a window icon on the right. The terminal content shows a command 'labs-2 % node validate.js' followed by two lines of output, each preceded by a green checkmark icon. The first line says 'GET http://localhost:3000/data responded with 200 response' and the second says 'GET http://localhost:3000/data has expected delay between items in repsonse stream'. Below these is the word 'PASSED' and then a new prompt 'labs-2 %' followed by a white cursor bar.

```
labs-2 % node validate.js
✓ GET http://localhost:3000/data responded with 200 response
✓ GET http://localhost:3000/data has expected delay between items in repsonse stream

PASSED

labs-2 %
```