

## Part I:

**bash**

```
docker run -d infracloudio/csvserver:latest docker ps -a
```

Check logs if it's failing:

**bash**

```
docker logs container_id
```

Create **gencsv.sh**:

**\*\*bash**

```
#!/bin/bash** start=$1 end=$2 for i in $(seq $start $end); do echo "$i, $((RANDOM % 1000))" >>
inputFile done
```

Make it executable and run:

**Bash**

```
chmod +x gencsv.sh ./gencsv.sh 2 8
```

Run container with inputFile:

**bash**

```
docker run -d -v $(pwd)/inputFile:/csvserver/inputdata infracloudio/csvserver:latest
```

Access shell and find port:

**bash**

```
docker exec -it container_id /bin/bash netstat -tuln
```

Note the port, then exit and stop the container.

Run with correct port and environment variable:

**bash**

```
docker run -d -p 9393:9300 -v $(pwd)/inputFile:/csvserver/inputdata -e CSVSERVER_BORDER=Orange
infracloudio/csvserver:latest
```

Generate output:

**Bash**

```
curl -o ./part-1-output http://localhost:9393/raw
```

Generate logs:

**bash**

```
docker logs container_name > & part-1-logs
```

Commit and push changes to GitHub.

## Part II:

Stop and remove all containers:

**bash**

```
docker stop $(docker ps -aq) && docker rm $(docker ps -aq)
```

**Create docker-compose.yaml:**

```
version: '3' services: csvserver: image: infraclaudio/csvserver:latest ports: - "9393:9300" volumes: - ./inputFile:/csvserver/inputdata env_file: - csvserver.env
```

**Create csvserver.env:**

```
CSVSERVER_BORDER=Orange
```

Test with:

**bash**

```
docker-compose up -d
```

Commit and push changes.

## Part III:

Stop containers:

**bash**

```
docker-compose down
```

**Update docker-compose.yaml:**

```
version: '3' services: csvserver: image: infraclaudio/csvserver:latest ports: - "9393:9300" volumes: - ./inputFile:/csvserver/inputdata env_file: - csvserver.env
```

```
prometheus: image: prom/prometheus:v2.45.2 ports: - "9090:9090" volumes: - ./prometheus.yml:/etc/prometheus/prometheus.yml
```

**Create prometheus.yml:**

```
global: scrape_interval: 15s
```

**scrape\_configs:**

- job\_name: 'csvserver' static\_configs:
  - targets: 'csvserver:9300'

**Start services:**

**bash**

```
docker-compose up -d
```

Prometheus at <http://localhost:9090>