

Simple Time Service

A simple Flask-based web service that returns the current timestamp and the requester's IP address in JSON format.

The application is containerized using Docker and runs on Gunicorn.

Features

- Returns current timestamp and IP address of the requester
- Properly handles X-Forwarded-For header for Load Balancer / Proxy scenarios
- Production-ready deployment with Gunicorn
- Built for running in Docker and Kubernetes

Prerequisites

- Docker
- Python 3.9+ (optional for local runs)

Build & Run Locally with Docker

1. Clone the Repository

```
git clone https://github.com/your-username/simple-time-service.git  
cd simple-time-service
```

2. Build Docker Image

```
docker build -t service-app1:latest .
```

3. Run the Container

```
docker run -d -p 5000:5000 -e PORT=5000 service-app1:latest
```

4. Access the Service

Open your browser or use curl:

`http://localhost:5000/`

Sample Response:

```
{  
  "timestamp": "2025-07-10T12:12:30.123456",  
  "ip": "127.0.0.1"  
}
```

Environment Variables

Variable	Default	Description
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PORT	5000	Port the app listens on inside Docker
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Running in AWS / Kubernetes / EKS

When deploying behind an AWS Load Balancer, the app automatically extracts the correct IP from the X-Forwarded-For header.

Authentication for Terraform / AWS (if applicable)

If you're provisioning AWS infrastructure (e.g., with Terraform), authenticate using the AWS CLI:

```
aws configure
```

OR export credentials:

```
export AWS_ACCESS_KEY_ID=your-access-key
```

```
export AWS_SECRET_ACCESS_KEY=your-secret-key
```

```
export AWS_DEFAULT_REGION=ap-south-1
```

Do NOT commit AWS credentials into your repository.

License

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