🌟 AWS Cloud Guard

Setup Guide 🚀🔐🌍

System Requirements ✅⚙️💻

Ensure your system meets the following requirements before running the application:

- Windows 10/11 or Linux/macOS
- Python 3.8 or above
- AWS CLI installed
- Internet connection

Step 1: Install Required Dependencies 📦🔧⚡

Windows (Command Prompt / PowerShell):

```
pip install boto3 flask fastapi uvicorn requests python-dotenv pyinstaller awscli
```

Linux/Mac (Terminal):

```
pip3 install boto3 flask fastapi uvicorn requests python-dotenv pyinstaller awscli
```

Step 2: Configure AWS Credentials 🔑☁️🌍

Run the following command in your terminal or command prompt:

```
aws configure
```

Enter the following details when prompted:

- **AWS Access Key ID**: (Provided by Admin)

- **AWS Secret Access Key**: (Provided by Admin)

- **Default region name**: us-east-1 (or as per your AWS setup)

- **Default output format**: json

Alternatively, set credentials manually in environment variables:

Windows (CMD/PowerShell):

```
set AWS_ACCESS_KEY_ID=your-access-key
set AWS_SECRET_ACCESS_KEY=your-secret-key
set AWS_REGION=us-east-1
```

Linux/Mac (Terminal):

```
export AWS_ACCESS_KEY_ID=your-access-key
export AWS_SECRET_ACCESS_KEY=your-secret-key
export AWS_REGION=us-east-1
```

Step 3: Verify AWS Configuration ✅🔍📡

To check if AWS CLI is configured correctly, run:

```
aws s3 ls
```

If it returns a list of S3 buckets (or an access denied error), AWS is set up correctly.

Step 4: Running the Application 🚀💻⚙️

Navigate to the application folder and execute:

```
./app.exe  # (For Windows)
./app  # (For Linux/Mac)
```

If you encounter issues, ensure:

- AWS credentials and region are configured

- All dependencies are installed

- Internet connection is stable

Troubleshooting 🛠️❗📣

Error: 'botocore.exceptions.NoRegionError'

Solution: Set the region manually as shown in Step 2.

Error: 'AWS CLI not recognized'

Solution: Install AWS CLI from https://aws.amazon.com/cli/

Error: 'ModuleNotFoundError'

Solution: Run `pip install -r requirements.txt` to install missing packages.