CONFIGURATION GUIDES › KUBERNETES

Deploy Go auto instrumentation in Kubernetes

Applicare 10.0 · Updated April 1, 2025 · kubernetes, go, opentelemetry · **Pending technical review**

Step 1: Create an **autoinstrument.yaml** file with the following content.

```yaml
spec:
template:
spec:
shareProcessNamespace: true
containers:
- name: autoinstrumentation-go
image: otel/autoinstrumentation-go
imagePullPolicy: IfNotPresent
env:
- name: OTEL_GO_AUTO_TARGET_EXE
value: /<File_executable_path>
- name: OTEL_EXPORTER_OTLP_ENDPOINT
value: "http://<Applicare_ip>:<Applicare_collector_port>"
- name: OTEL_SERVICE_NAME
value: "<service_name>"
securityContext:
runAsUser: 0
privileged: true
```

It is important to change the following values in the above file.

<File_executable_path>= Directory for starting the Go application

<Applicare_ip>= IP address of the machine running Applicare

<Applicare_collector_port>= Port of the machine running Applicare

<Service_Name>= The name of the agent as shown in the Applicare console.

Step 2: Go to the directory with the YAML file and run the command below

```bash
kubectl patch deployment <deployment_name> --patch "$(cat autoinstrument.yaml )"
```

It is important to change the below values in the above command.

<deployment_name>= Go Application Deployment Name

Step 3: This will restart your pods in the Kubernetes deployment.

The following document outlines how to access Go application data in Applicare after configuration.

Go application data in Kubernetes Monitoring