

Distroless Container Images

Overview

"Distroless" images contain only your application and its runtime dependencies. They do not contain package managers, shells or any other programs you would expect to find in a standard Linux distribution.

Default Users

Users	id	group
root	0	0
nonroot	65532	65532

To define the nonroot user in a kubernetes pod/deployment you will need to set the securityContext as defined below:

```
spec:
  template:
    spec:
      securityContext:
        runAsUser: 65532
        fsGroup: 65532
```

Example Creating a Docker Image for Go Application

```
# Start by building the application.
FROM golang:1.18 as build

WORKDIR /go/src/app
COPY . .

RUN go mod download
RUN CGO_ENABLED=0 go build -o /go/bin/app

# Now copy it into our base image.
FROM gcr.io/distroless/static-debian11
COPY --from=build /go/bin/app /
CMD ["/app"]
```

References

Reference	URL
"Distroless" Container Images	https://github.com/GoogleContainerTools/distroless
How to add a directory where non-root user can write #427	https://github.com/GoogleContainerTools/distroless/issues/427