Containerize Go Apps

Cloud Native Ninja

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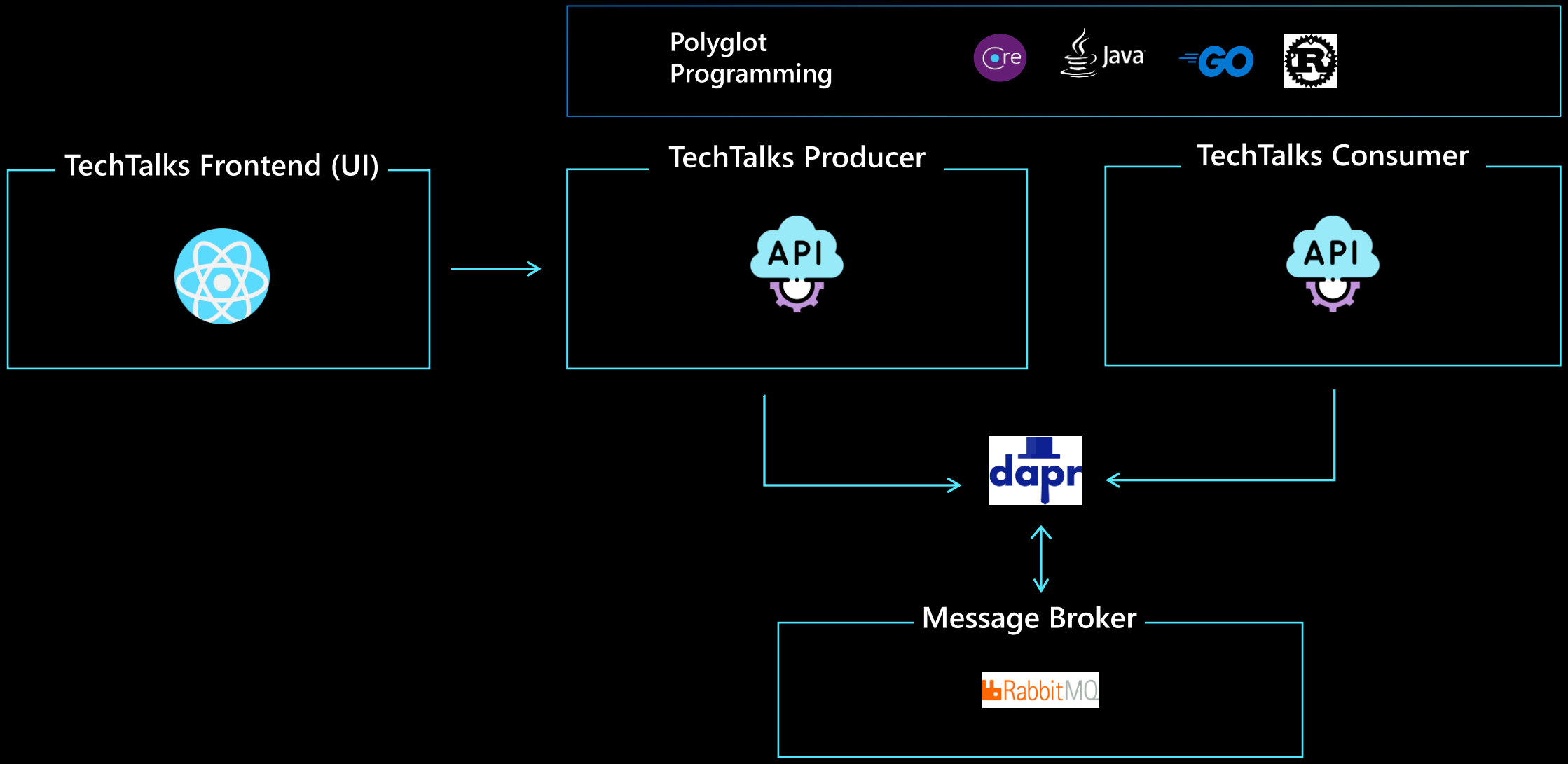
docker

GO

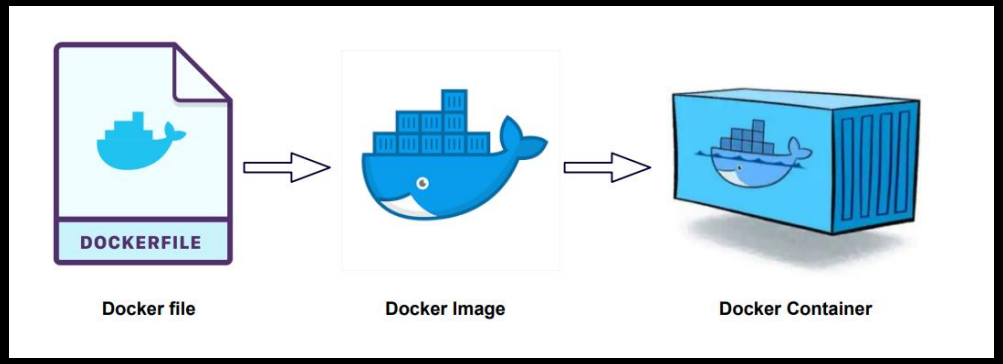
TechTalks Application Architecture

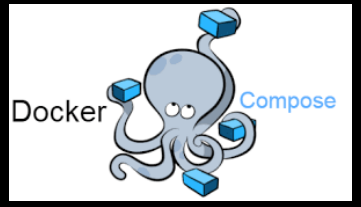


Multistage Docker file

```
# builder image
FROM golang:1.20-alpine as builder
RUN mkdir /build

COPY . /build/
WORKDIR /build

RUN --mount=type=cache,id=gobuild,target=/root/.cache/go-build \
    CGO_ENABLED=0 GOOS=linux go build -a -o producer .

# generate clean, final image for end users
FROM alpine:3.17
COPY --from=builder /build/producer .

# executable
ENTRYPOINT [ "./producer" ]
```

Summary





- ✓ **Build :** Built Go app using Go build tools
- ✓ **Base images**: Used **Alpine based** base image for Go lang
- ✓ **Multistage Docker build**:
  - ✓ separate build and run stages using different base images
  - ✓ cache build dependencies using the mount cache feature
- ✓ **Docker Hub**: Publish container images

Containerize Apps Resources

Cloud Native Ninja GitHub repo: https://github.com/NileshGule/cloud-native-ninja

Slides

Slideshare: https://www.slideshare.net/nileshgule/

Speaker Deck: https://speakerdeck.com/nileshgule/