

Test Dockerization

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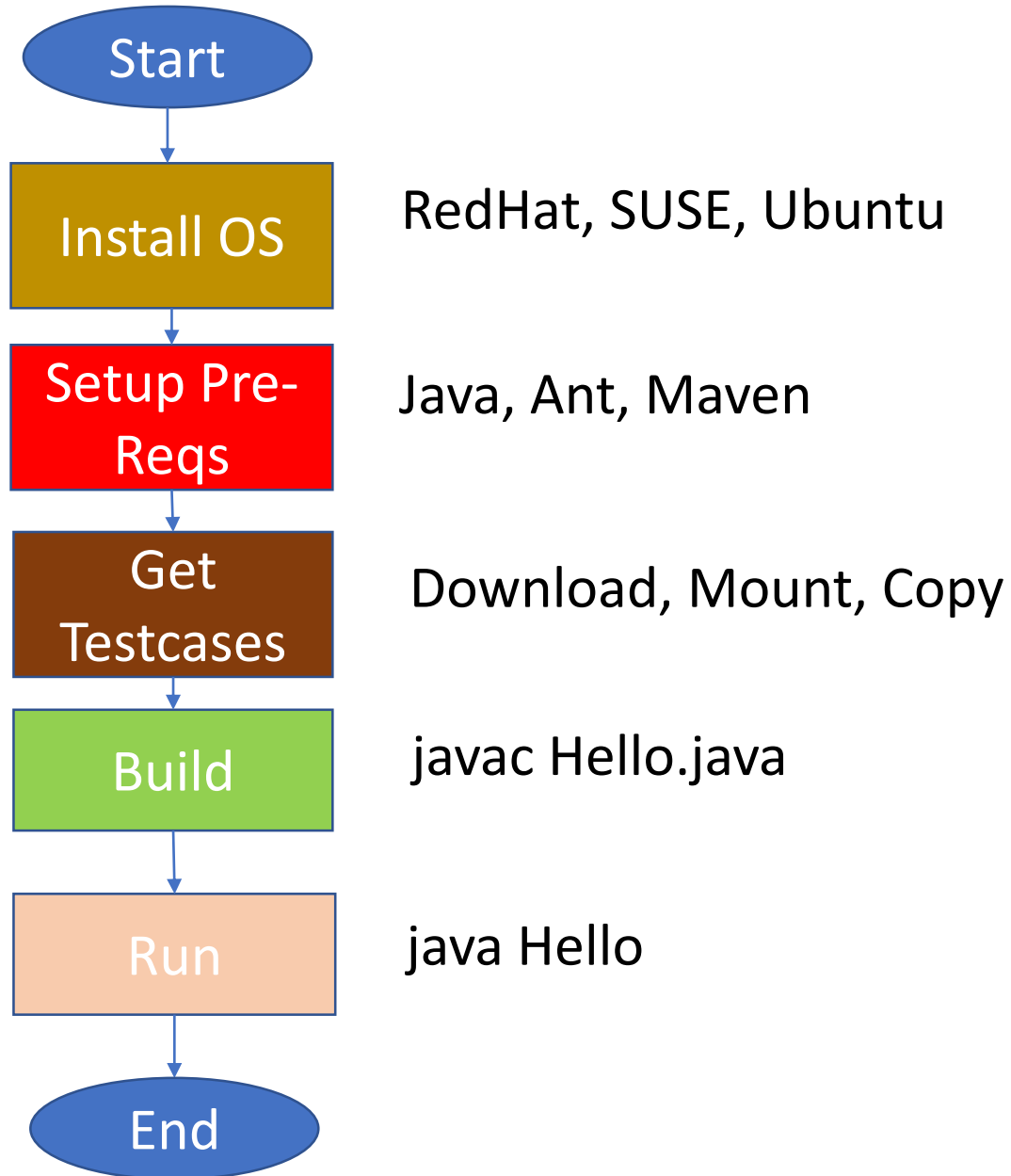
Agenda

- A glance at current test execution process
- Dockerization/Container based testing
- Demo
- Summary
- Q&A

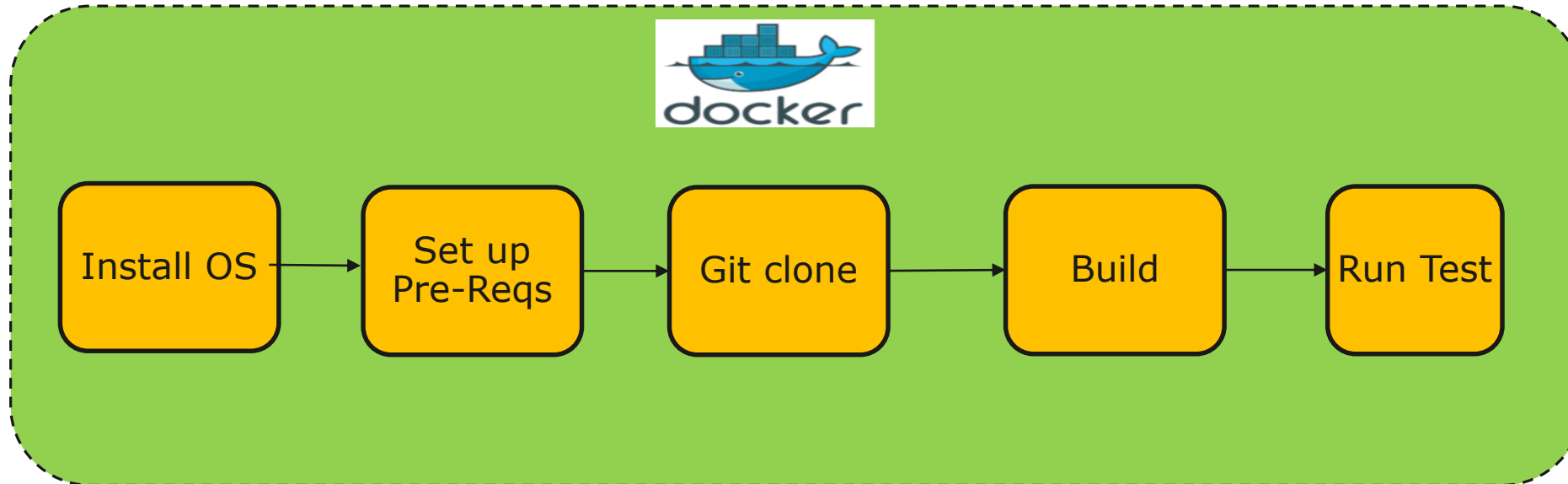
*“An Innovation is both about
doing different things
as well as
doing things differently”*

- Anonymous

Current Test Execution Process



Dockerization/Container based testing





Sample Dockerfile

```
ARG SDK=openjdk8
ARG IMAGE_NAME=adoptopenjdk/$SDK
ARG IMAGE_VERSION=latest

FROM $IMAGE_NAME:$IMAGE_VERSION

# Install test dependent executable files
RUN apt-get update \
    && apt-get -y install \
    apt-transport-https \
    ca-certificates \
    dirmngr \
    git

# This is the main script to run example tests. Replace this with the script for your
own test
COPY ./example-test.sh /example-test.sh

# Clone the repo where the tests reside.
WORKDIR /
RUN pwd
RUN git clone https://github.com/mamatha-jv/sample-testcase.git

ENTRYPOINT ["/bin/bash", "/example-test.sh"]
```

Sample shell script(.sh)

```
#Set up Java to be used by the the example-test or use default java
```

```
java -version
```

```
# For this example, we will simply compile and run the ExampleTest class
```

```
cd /sample-testcase
```

```
pwd
```

```
set -e
```

```
echo "Compile and execute Test1" && \
```

```
javac Test1.java && \
```

```
java Test1
```

```
set +e
```


Summary

- ✓ Consistent environment
- ✓ Simple and Faster Setup
- ✓ Isolation
- ✓ Easy to reproduce failure



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- 1 0 + 1

Q&A

Thank You