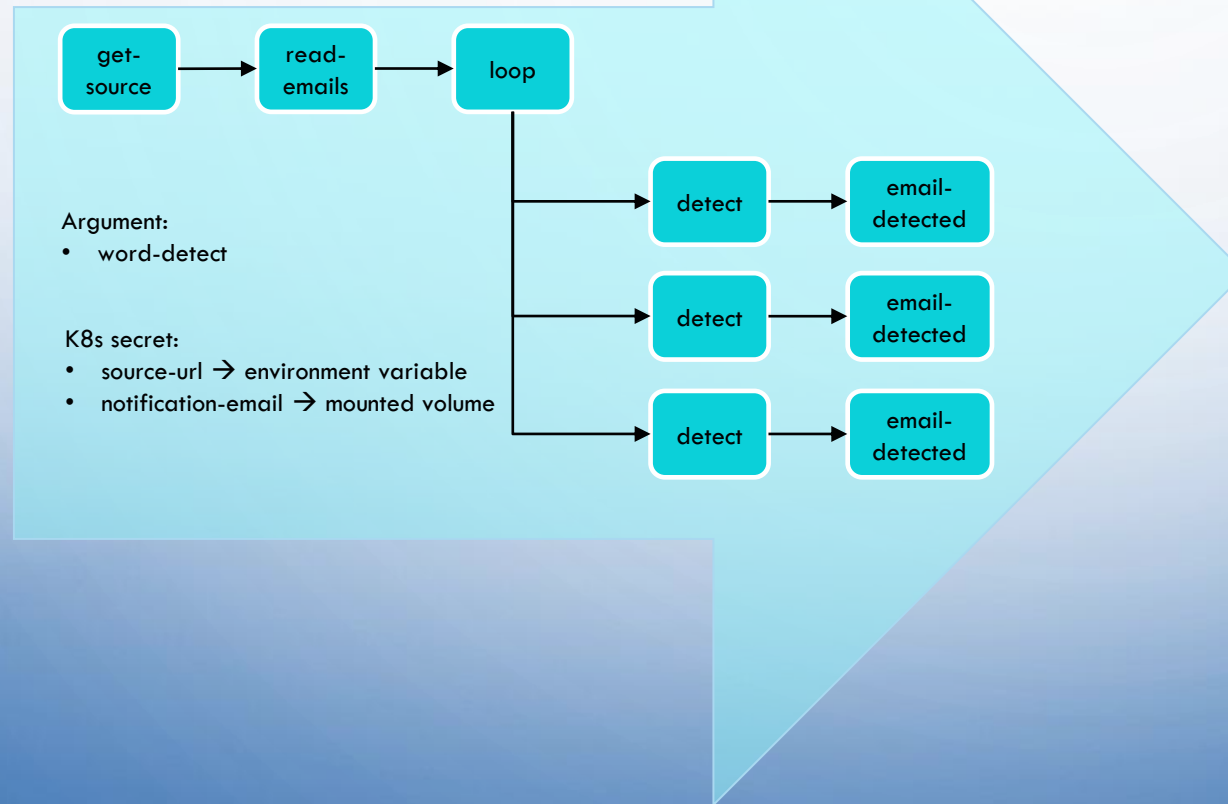


ARGO WORKFLOWS



EXERCISE 2

EXERCISE 2



- **get-source:**
reading emails.csv from S3 and output as artifact on MinIO
- **read-emails:**
take emails.csv from MinIO and print to stdout in list format as json for each entry ([{"text": "...", "sender": "...", {"text": "..."}])
- **loop:**
loop over output from read-emails
- **detect:**
If the email contains the argument word-detect print „DETECTED“ to stdout.
Otherwise print „OK“
- **email-detected:**
print out that email was sent to notification email + sender + text and output the email as artifact to MinIO only if task *detect* detected the word-detect

EXERCISE 2 HINTS

- **get-source:**

image → ubuntu:20.04

sh commands → apt-get update; apt-get install -y curl; mkdir source-file;
cd source-file; curl &SOURCE_URL -o emails.csv

environment variable → SOURCE_URL from secret

artifact output → emails.csv

- **read-emails:**

image → python:3.8-slim

python commands → import json; import sys; with open("/tmp/text", "r") as f;
lines = f.readlines(); lines = [x.strip().split(";") for x in lines];
json.dump([{"lines[0][0]: i[0].strip('\"')", "lines[0][1]: i[1]"} for i in lines[1:]], sys.stdout)

artifact input → emails.csv

EXERCISE 2 HINTS

- **loop:**
template → DAG
- **detect:**
image → python:3.8-slim
python command →

```
if "{{inputs.parameters.word-detect}}" in "{{inputs.parameters.text}}": print("DETECTED")  
else: print("OK")
```
- **email-detected:**
image → python:3.8-slim
python command →

```
with open("/secrets/notification_email", "r") as f: notification_email = f.read()  
3 x print("...")  
f = open("/tmp/email_detected.txt", "w")  
2 x f.write("Sender: {{inputs.parameters.sender}}")  
f.close()
```


input parameters → text, sender
mounted volume → notification-email
artifact output → email-detected

GOOD LUCK!



docker



kubernetes

argo