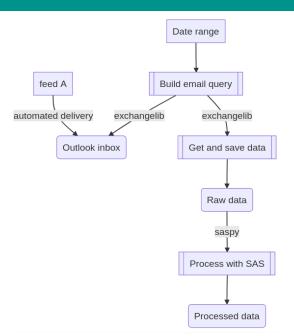
RAPping in the public sector: binding your legacy code into a pipeline with Python

Ministry of Transport (MOT)

Presented by Shrividya Ravi (Shriv)

Bind straggling scripts into pipelines



RAP your way to success - obtain and process

exchangelib obtain email data

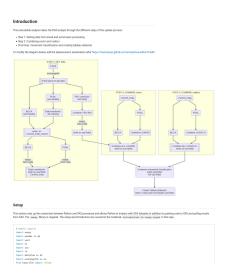
```
# Ouerv to get weekly automated emails from POAL
# start, end are pre-defined date ranges
weekly poal query = figs account.inbox.filter(
    datetime received range=(start, end),
    sender="BI-DWSupport@poal.co.nz",
    has attachments=True)
# Go through all results from email query
for i, email in enumerate(weekly poal query):
    # loop through all attachment
    for attachment in email.attachments:
        # if attachment, then save file
        if isinstance(attachment, ex.FileAttachment):
            # Filename and data path
            filename = "weekly poal data" + date.today() + ".zip"
            local path = os.path.join(data path, "zip files", filename)
            # Save attachment
            with open(local path, 'wb') as f:
                f.write(attachment.content)
```

saspy run sas code from python

```
# open list of new data filenames after downloading from Outlook
files_list = open('..\sas_code\combine\files_list.sas').read()
# open data processing code chunks
with open(r'..\sas_code\combine\poal_combine_sas.yaml') as file:
    sas_code = yaml.full_load(file)
# create code blocks by function
    preamble = sas_code\['preamble'\]
coarri_combine = sas_code\['coarri_combine'\]
codeco_combine = sas_code\['coarri_combine'\]
# create sas_query - concat code blocs
sas_query = \['r''(preamble\['files_list\]\{codeco_combine\}^*"
res = sas.submit(sas_query)
```

RAP your way to success - document

jupyter notebooks create and document pipelines



RAPping with others is fun - get in touch!

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