

# **px: PEAX Command Line Client**

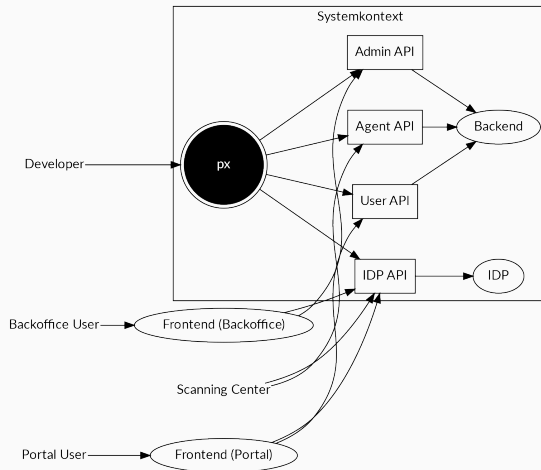
Wirtschaftsprojekt (Herbstsemester 2019)

---

Patrick Bucher

27.01.2020

1. Systemkontext
2. Problemstellung
3. Lösungsansatz: Swiss Army Knife & Unix-Philosophie
4. Teststrategie
5. Umsetzung
6. Programmiersprache Go
7. Live-Demo



**Abbildung 1:** Kontextdiagramm

# Problemstellung

```
curl -X POST -H "Cache-Control: no-cache" \  
  -H "Content-Type: application/x-www-form-urlencoded" \  
  --data "grant_type=password&client_id=peax.portal& ↵  
  username=683.4839.1914.79&password=Geheim" \  
  https://sv-idp-keycloak-test.osapps.peax.ch/auth/ ↵  
  realms/peax-id-test/protocol/openid-connect/token \  
  | jq -r .access_token > access_token  
curl -X POST -H "Authorization: Bearer $(cat access_token)" \  
  -H "Content-Type: multipart/form-data; charset=UTF-8" \  
  -F "document=@document.pdf;type=application/pdf" \  
  -F "@meta.json;type=application/json" \  
  https://sv-oauth-proxy-test.osapps.peax.ch/document/ ↵  
  api/v3/account/683.4839.1914.79/collection/upload
```

```
px login -e test -u patrick.bucher@stud.hslu.ch  
px upload document.pdf -meta metadata.json
```

Git:

```
git status
```

```
git add *.sh
```

```
git commit -m 'added shell scripts'
```

px:

```
px login -e test -u john.doe@foobar.com -p topsecret1337
```

```
px upload document.pdf
```

```
px logout -a
```

Verwendung als interaktiver Befehl:

```
px upload document.pdf
```

Verwendung im “Skript”:

```
px upload document.pdf | jq -r '.documentId' >> documentIds.txt
```

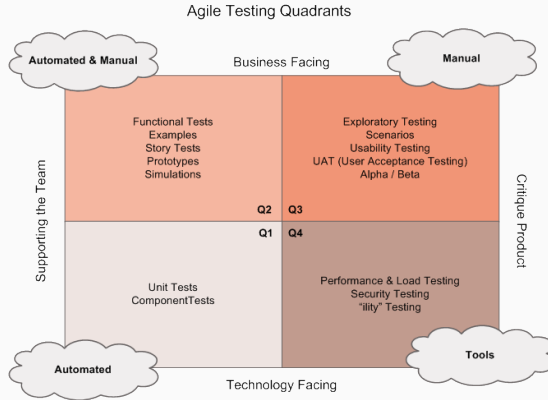
“hardcore”:

```
for doc in $(find /home/joe/docs -type f | grep -i '\.pdf$')  
do  
    px upload "$doc" | jq -r '.documentId' >> documentIds.txt  
done
```

“casual”:

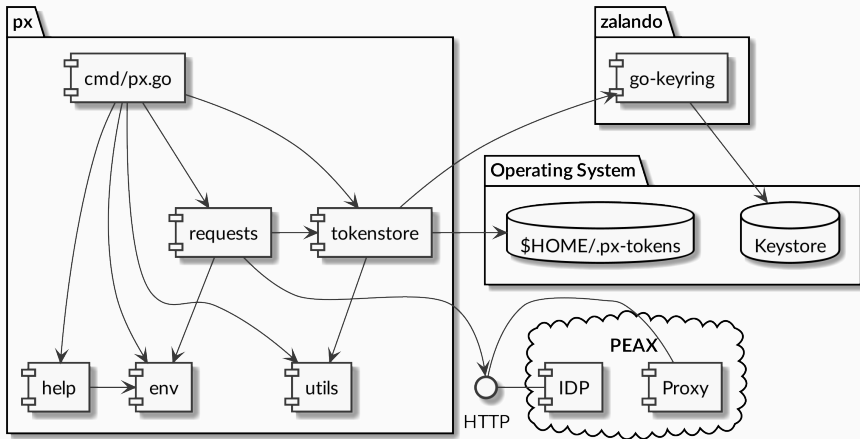
```
px upload -r /home/joe/docs > report.json
```



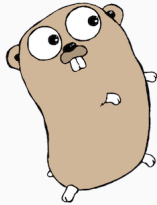


**Abbildung 2:** Agile Testing Quadrants

(<https://lisacrispin.com/2011/11/08/using-the-agile-testing-quadrants/>)



**Abbildung 3:** Komponentendiagramm zu px



**Abbildung 4:** Go Gopher (<https://blog.golang.org/gopher>)



**Abbildung 5:** Dennis Ritchie (links) und Ken Thompson (rechts)  
(<http://genius.cat-v.org/ken-thompson/photos/ken-and-dennis-with-pdp11.jpg>)