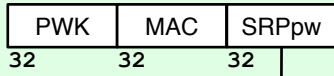


Browser



Storage Server



REQUEST

sessID

SRP

```
msg=UTF8(json(
["srp-1",
sessID, email, b64(A)]
))
```

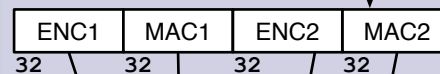
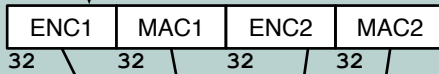
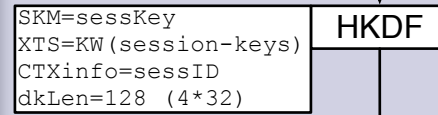
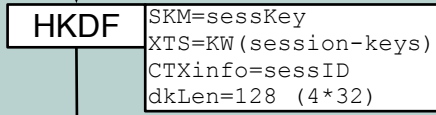
```
msg=UTF8(json(
["ok",
b64(s), b64(B)]
))
```

```
msg=UTF8(json(
["srp-2",
sessID, b64(M)]
))
```

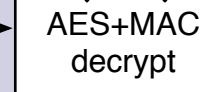
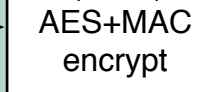
```
msg=UTF8(json(
["ok",
b64(HAMK)]
))
```

sessKey

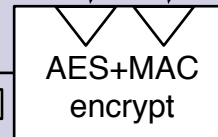
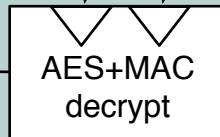
sessKey



```
msg=UTF8(json(
REQUEST
))
```



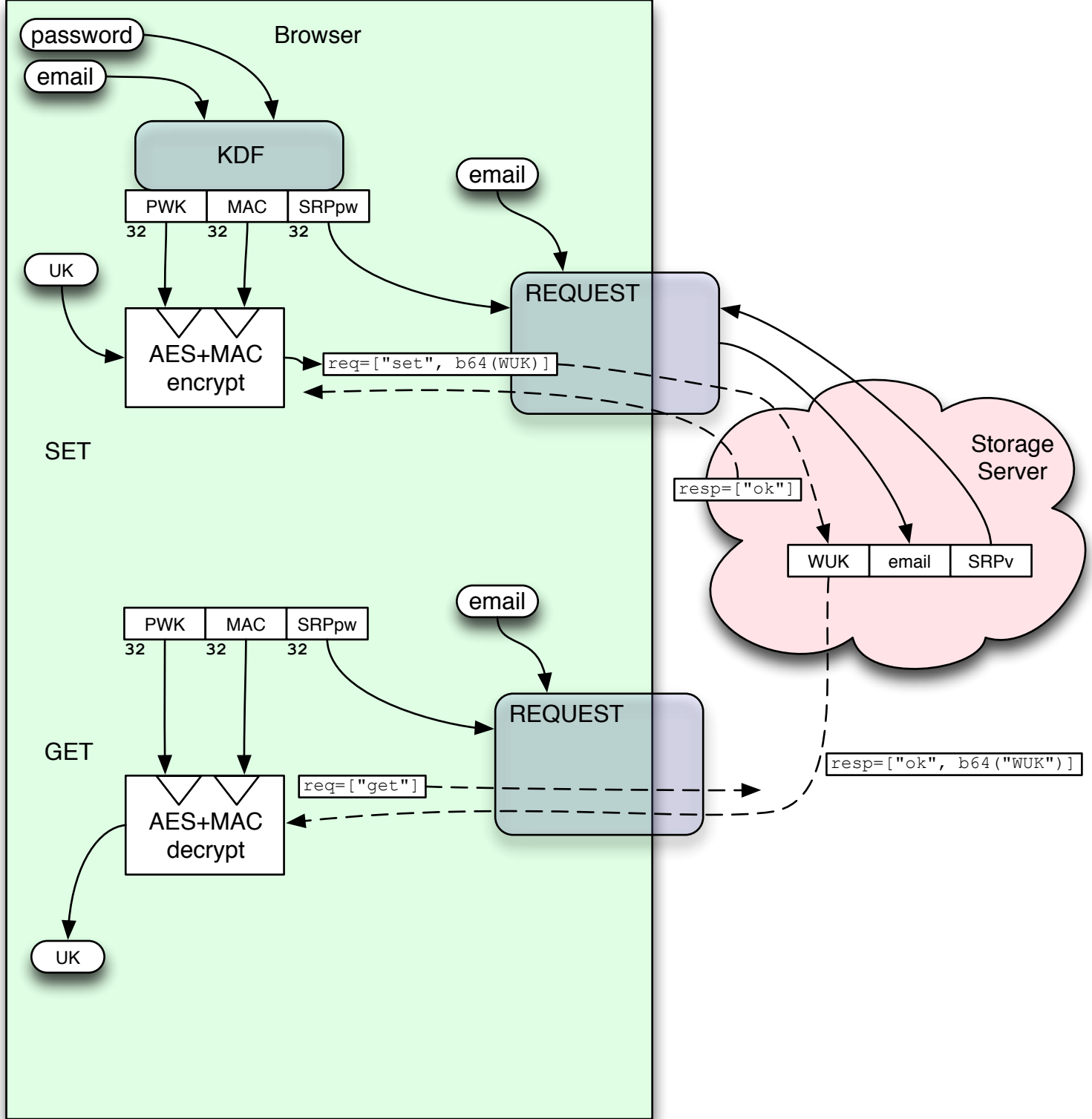
```
msg=UTF8(json(
"encrypted-request",
sessID, b64(enc_data),
))
```

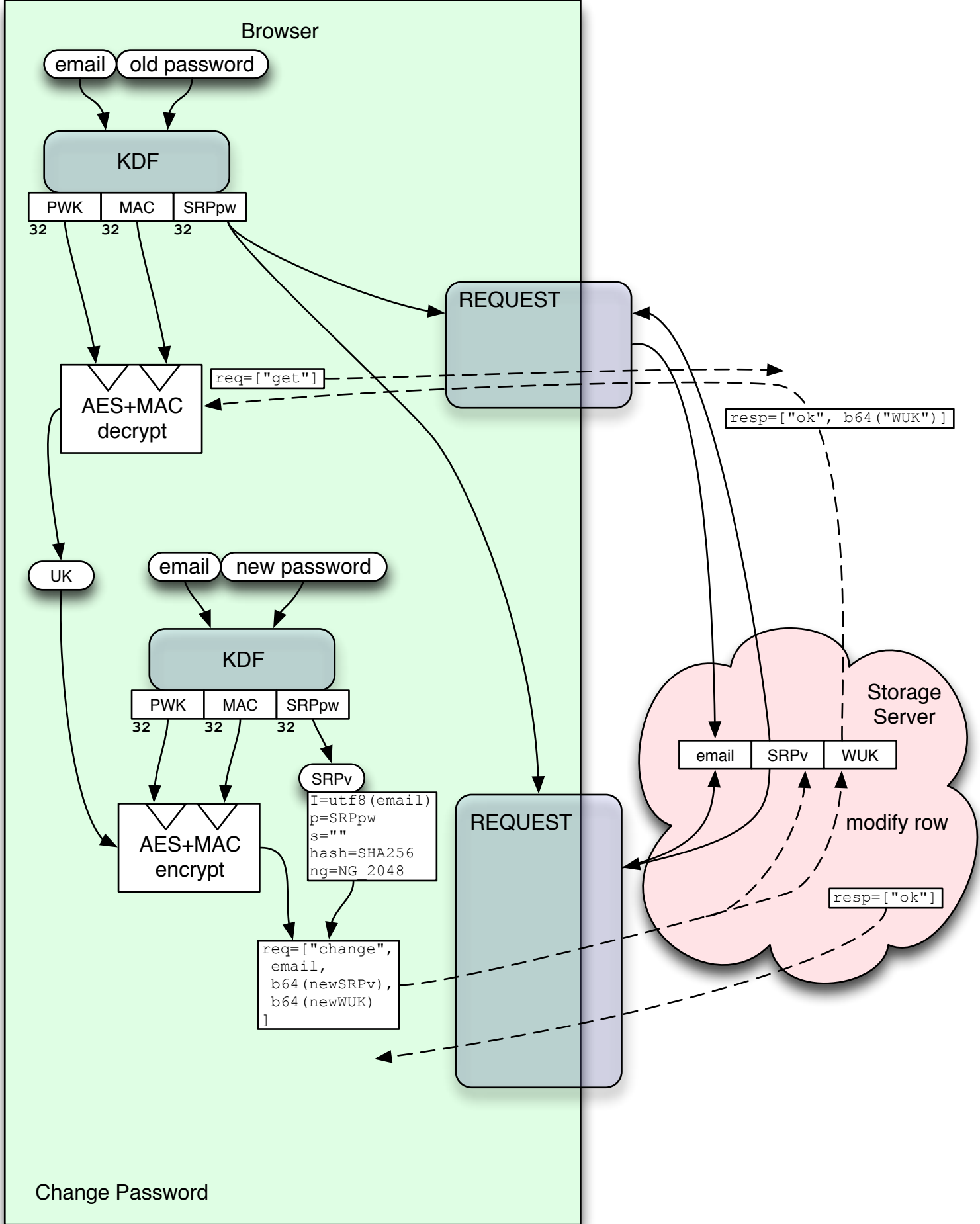


```
msg=UTF8(json(
RESPONSE
))
```

msg=b64(enc_data)

sessID = b64(256-bit random string)
different for each request





Browser

email old password

KDF

PWK 32 MAC 32 SRPpw 32

REQUEST

req=["get"]

AES+MAC decrypt

UK

email new password

KDF

PWK 32 MAC 32 SRPpw 32

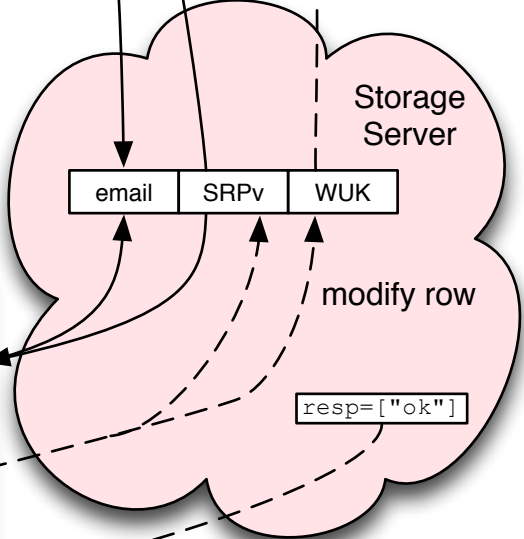
SRPv

I=utf8(email)
p=SRPpw
s=""
hash=SHA256
ng=NG_2048

AES+MAC encrypt

REQUEST

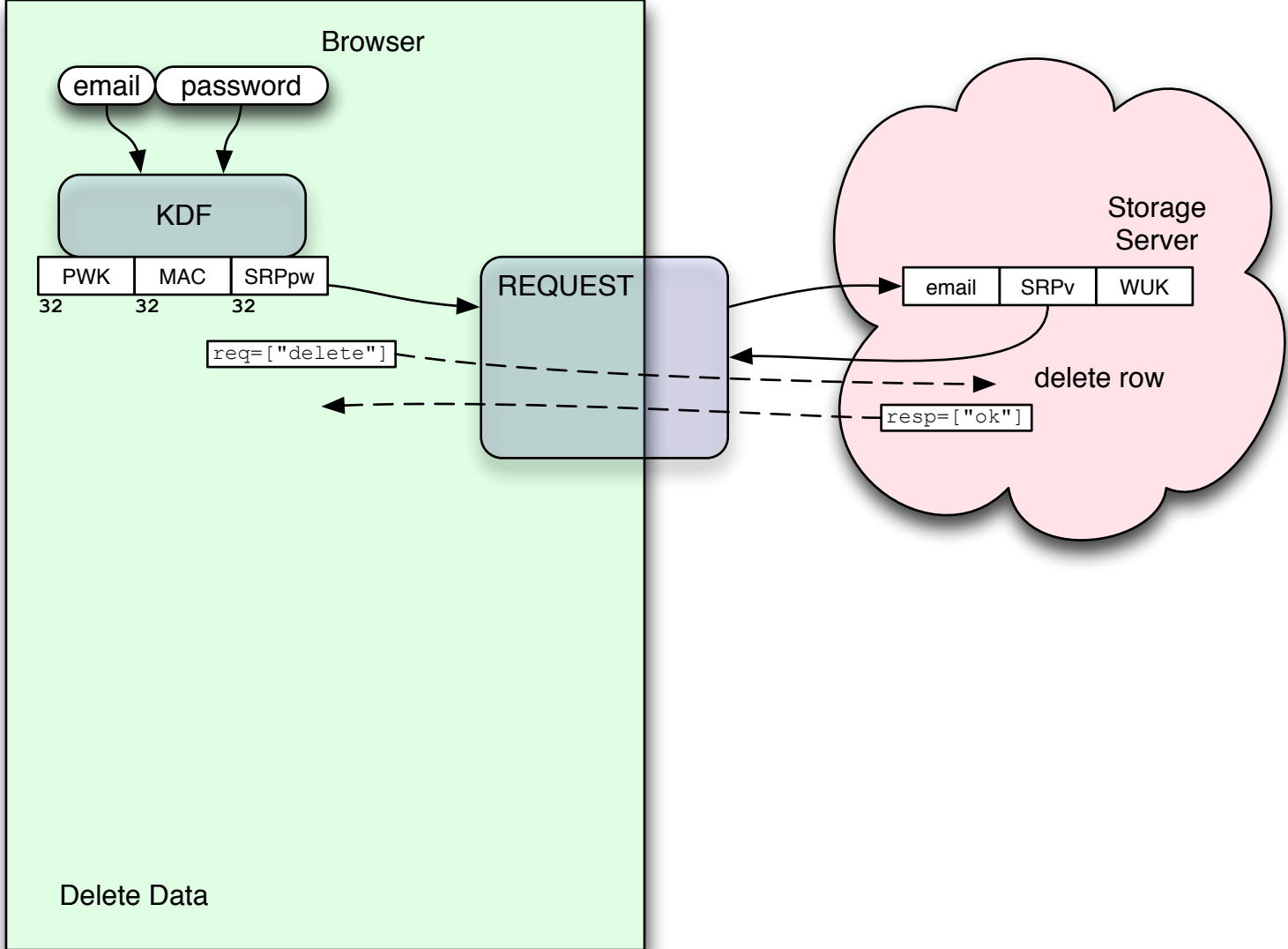
req=["change",
email,
b64(newSRPv),
b64(newWUK)
]

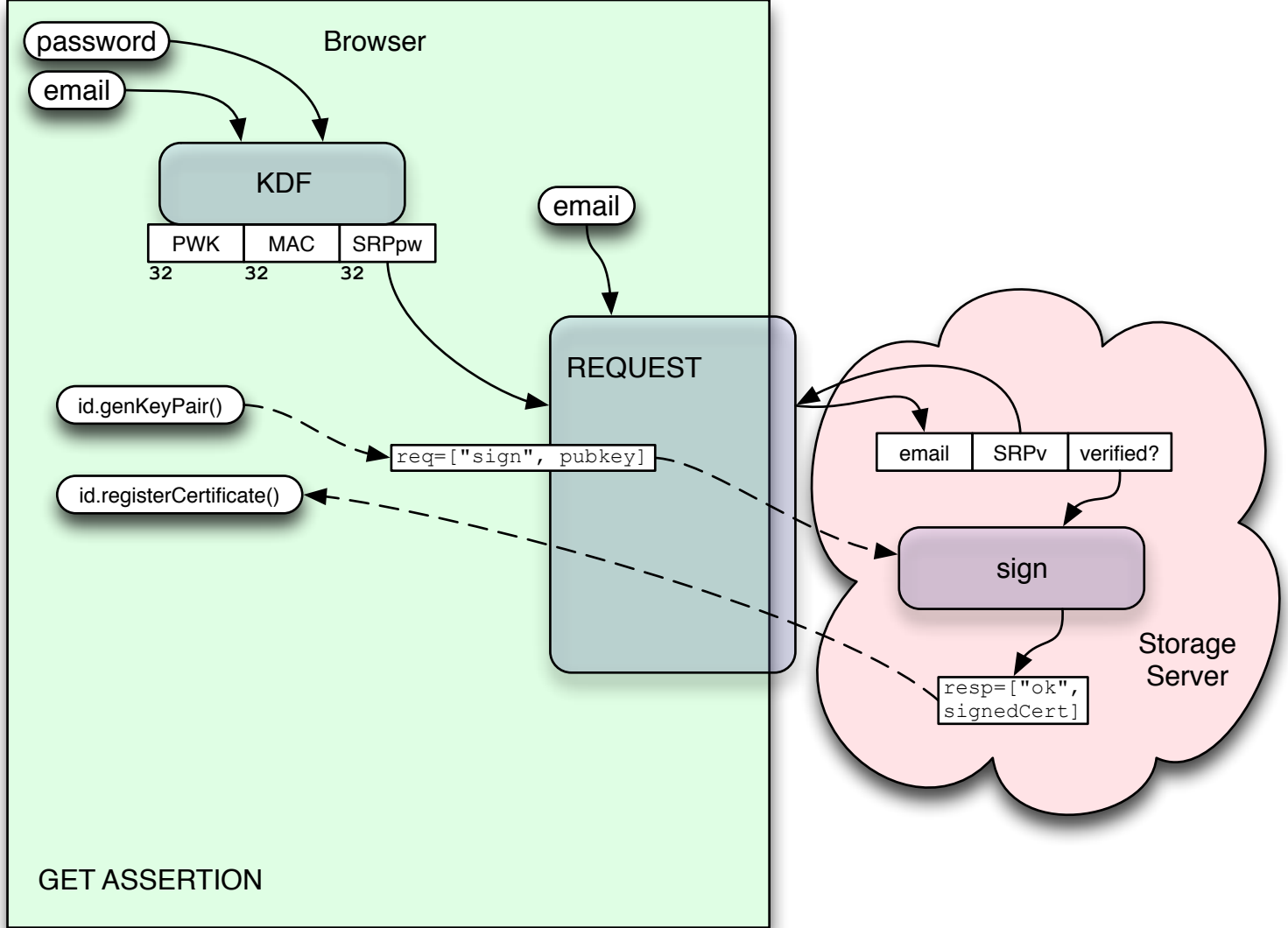


resp=["ok", b64("WUK")]

resp=["ok"]

Change Password





```
pubkey = JWK(alg, fields)
signedCert = JWT(exp, iss, public-key, principal)
```