



ANGULAR
ARCHITECTS
INSIDE KNOWLEDGE

Login and Access Control in Angular

angular-architects.io

Roles

Authorization-Server

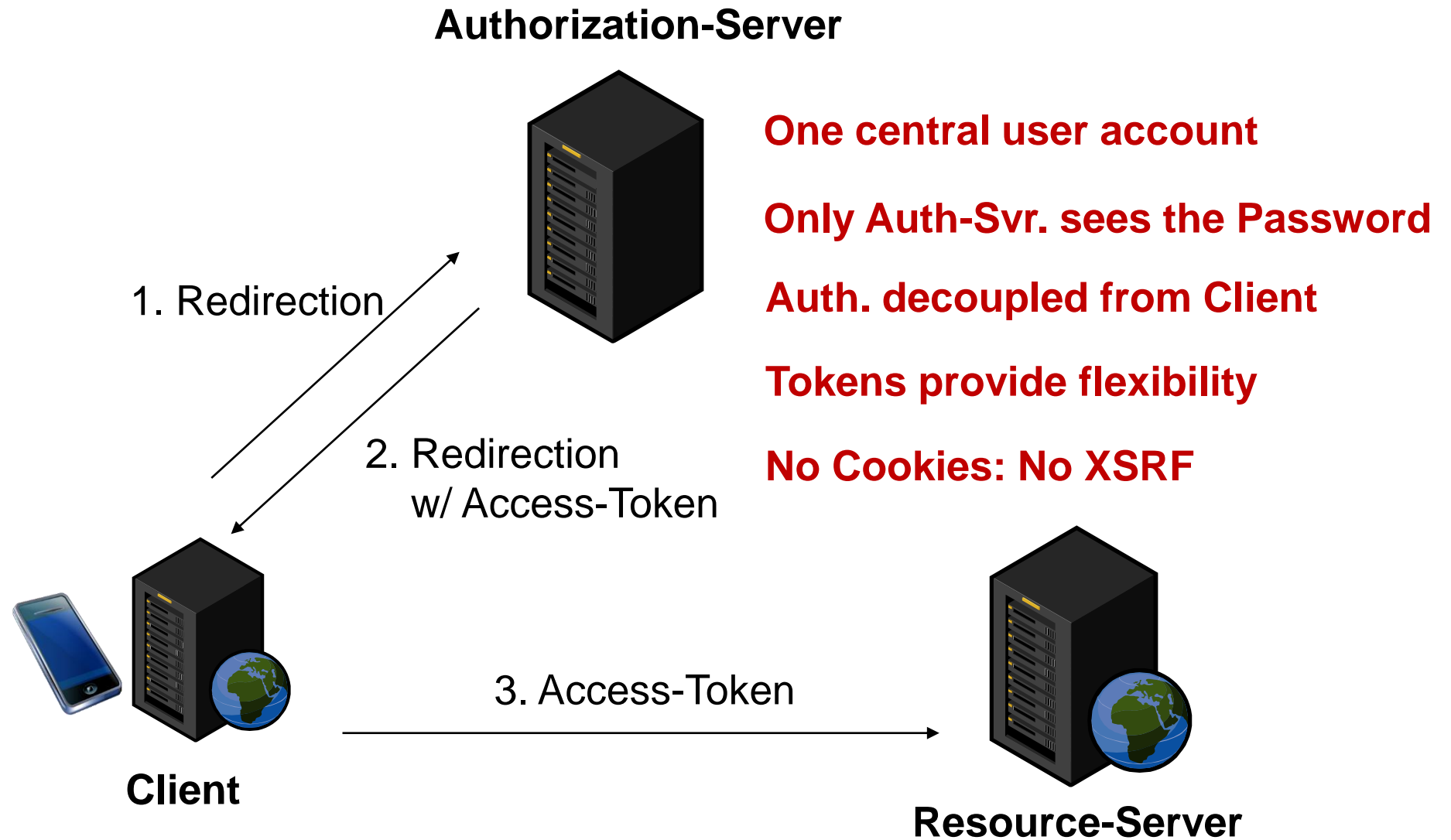


Client



Resource-Server

Flow



Lots of Auth Server out there ...

Active Directory
Federation
Services

Identity Server
(.NET)

Redhat Keycloak
(Java)

Okta

Auth0

Firebase

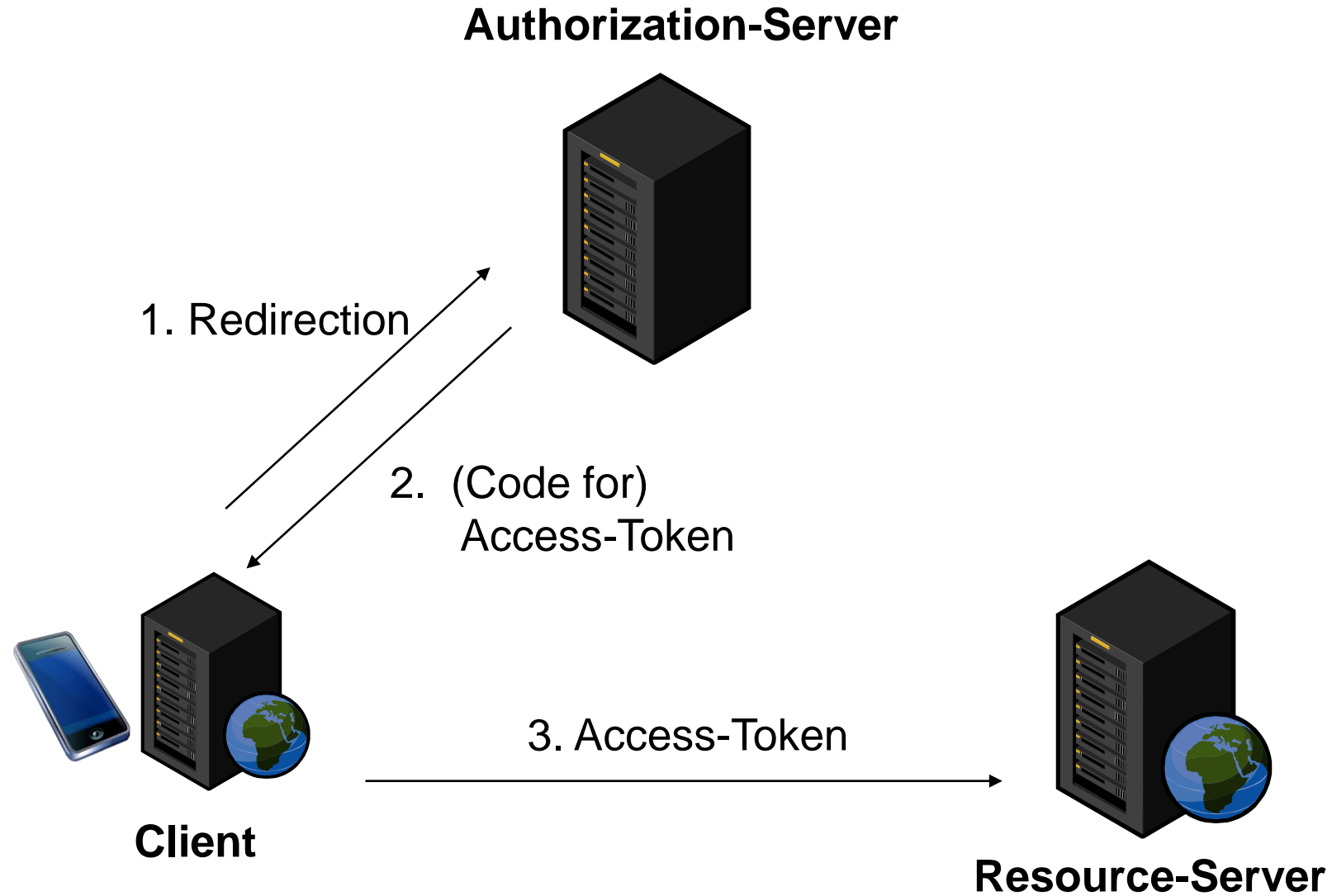
Azure Active
Directory

...

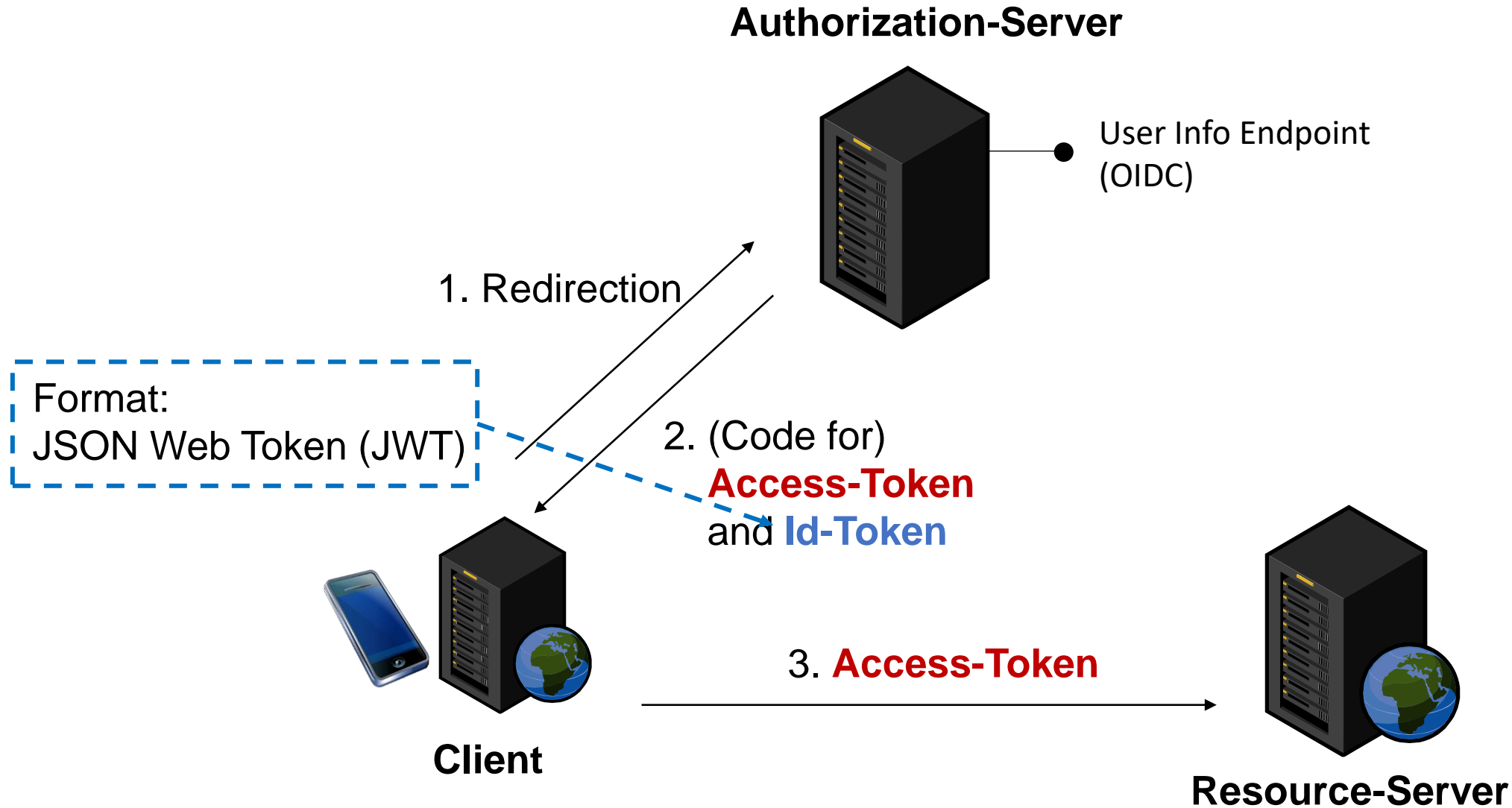


OAuth 2 and OpenId Connect

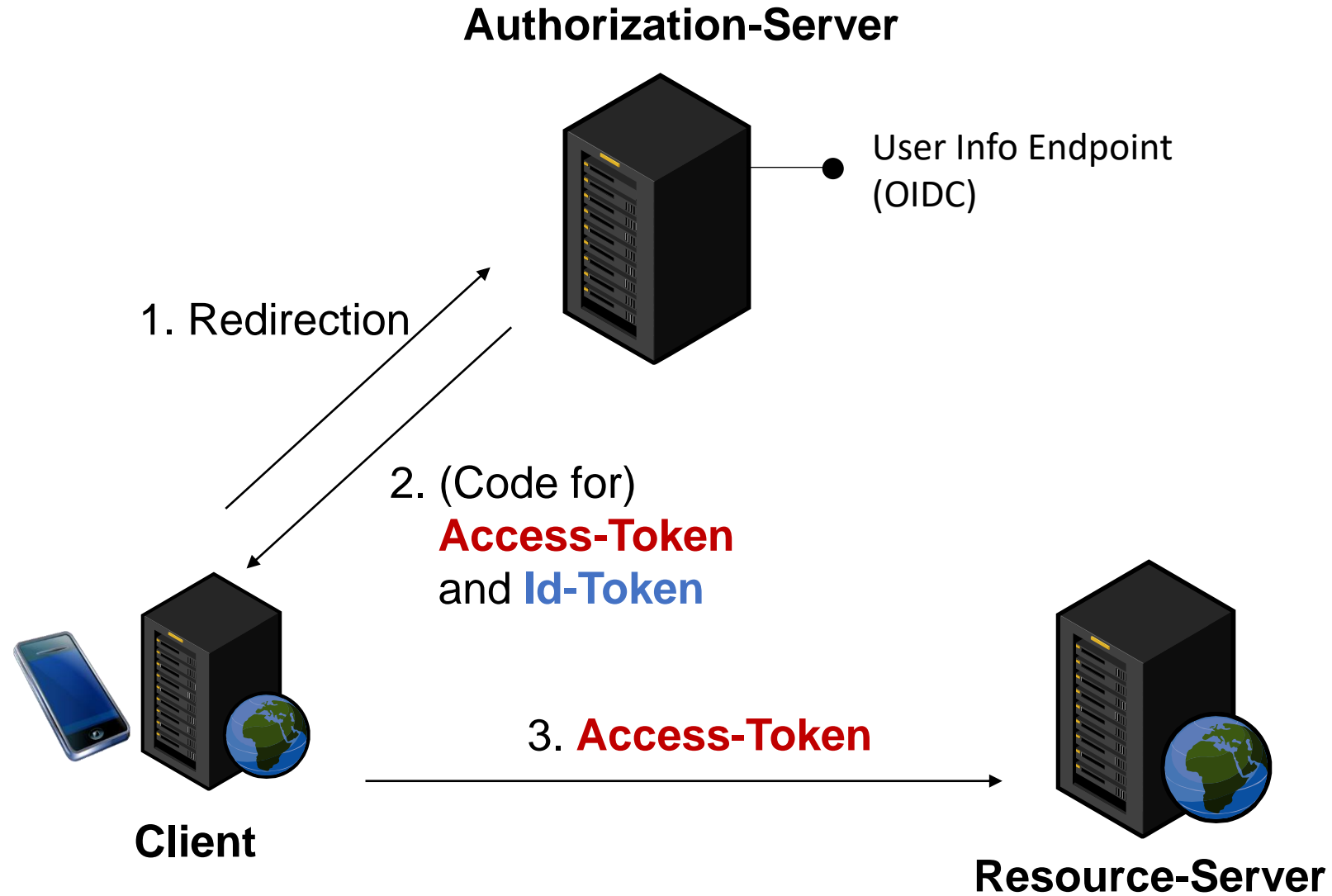
OAuth2



OpenId Connect



OpenId Connect



Flows for SPA

- Implicit Flow
 - originally for SPA,
 - Deprecated with OAuth 2.1
 - Tokens in URL
- Code Flow + PKCE
 - now recommended!

angular-oauth2-oidc TS

13.0.1 • Public • Published a month ago

Readme

Explore BETA

2 Dependencies

346 Dependents

85 Versions

angular-oauth2-oidc

Support for OAuth 2 and OpenId Connect (OIDC) in Angular. Already prepared for the upcoming OAuth 2.1.



Install

```
> npm i angular-oauth2-oidc
```

Repository

github.com/manfredsteyer/angular-oa...

Homepage

github.com/manfredsteyer/angular-oa...

Weekly Downloads



Version	License
13.0.1	MIT



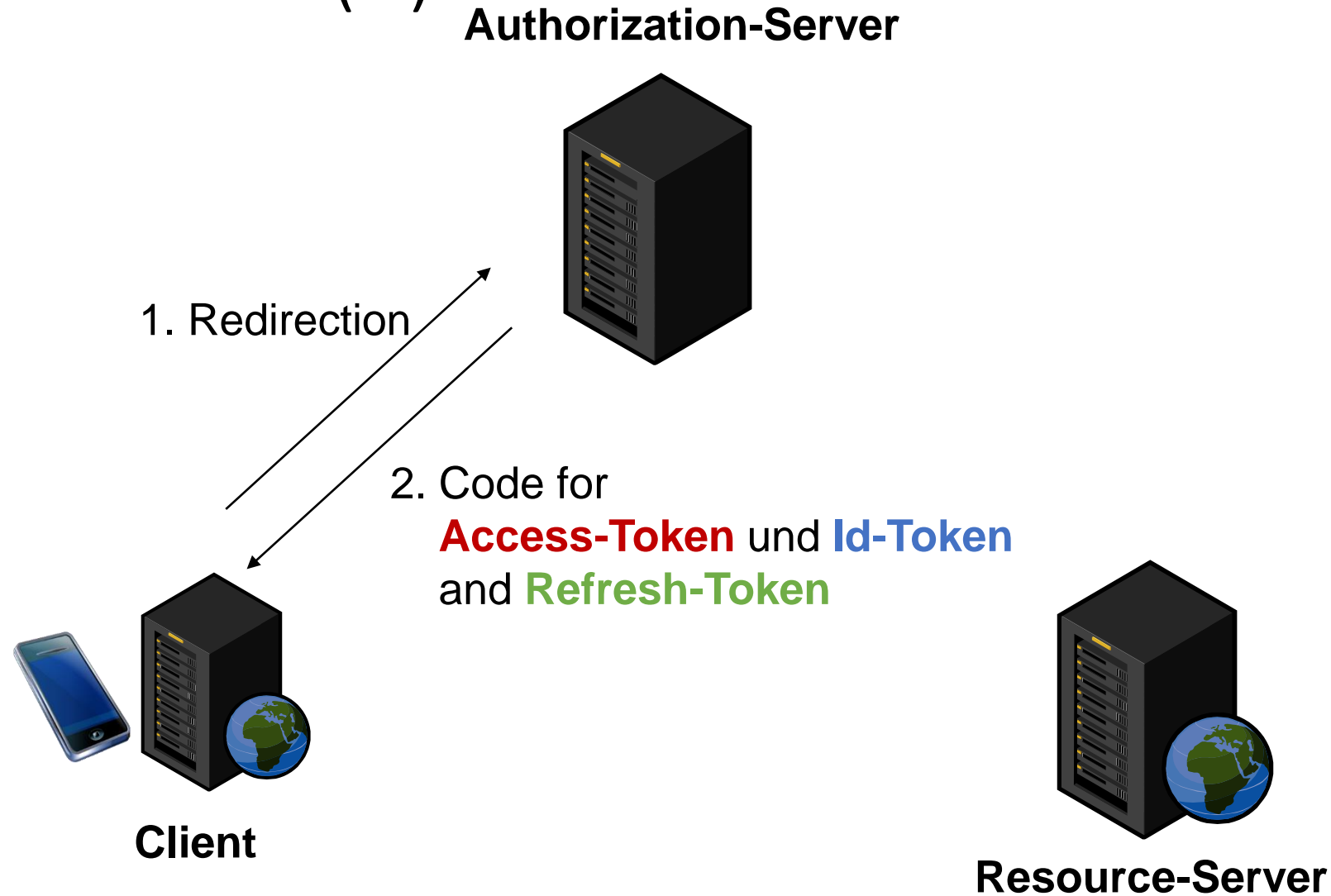
Token Refresh

Why Token Refresh?

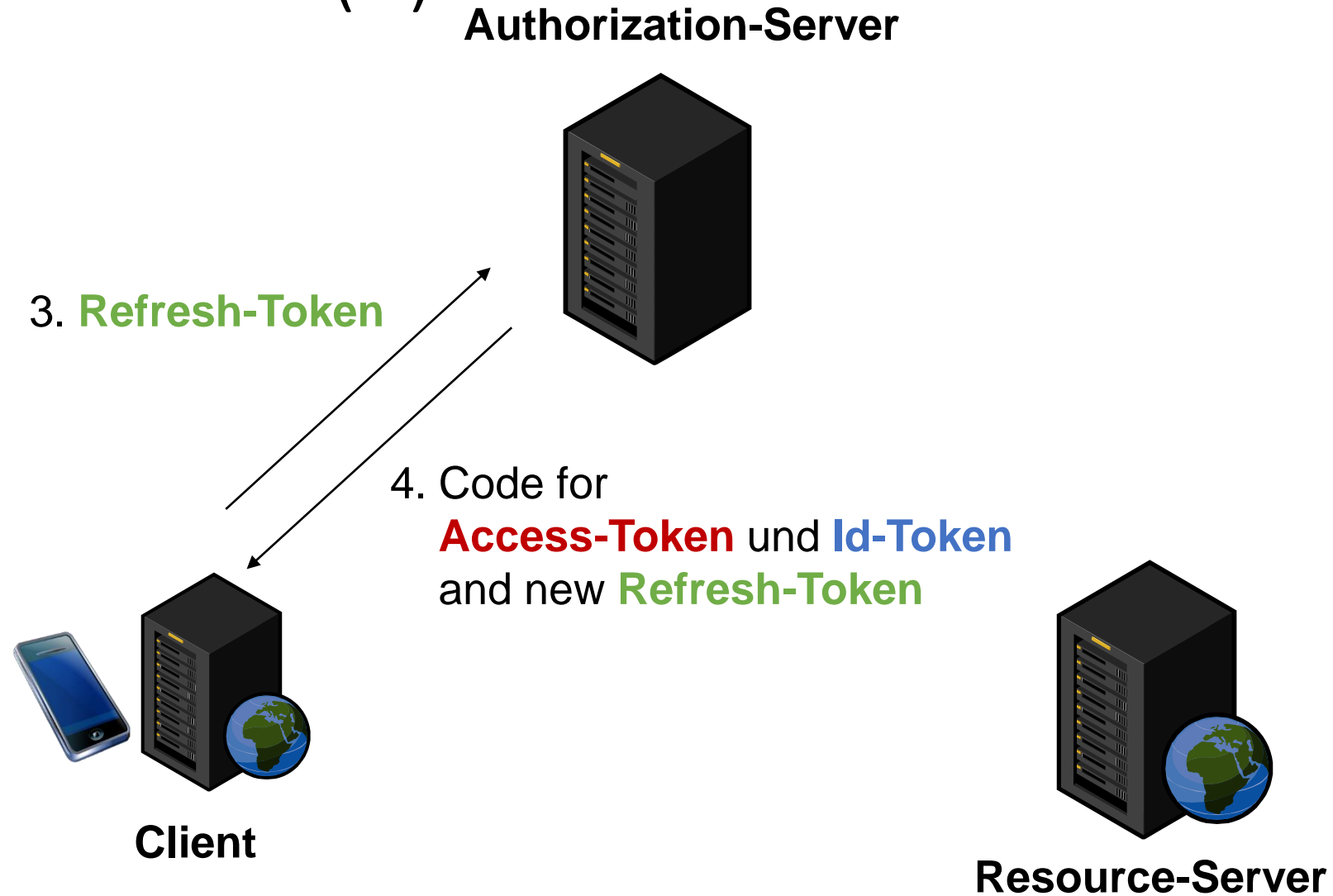
Short living Tokens
increase Security

Users don't want to
login over and over
again

Refresh Token (1)



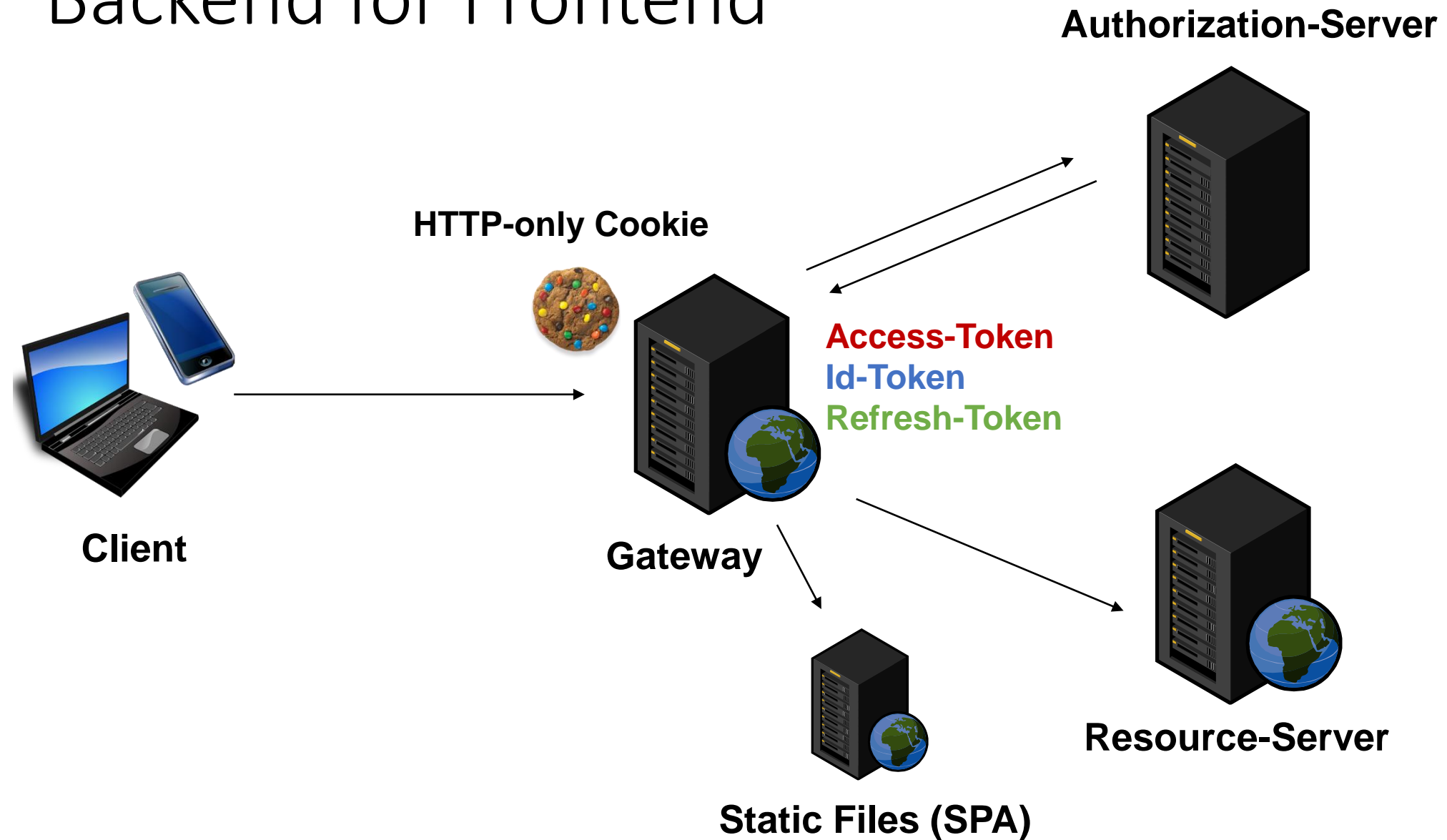
Refresh Token (2)



Refresh-Token and Browsers

- [OAuth 2.0 Security Best Current Practice](#) allows it under specific circumstances
- Security Audit (XSS!)
- Refresh Token needs to be one-time token
- After Refresh: Client gets new refresh token
- If used by several users: log out both

"Backend for Frontend"



Possible Solutions

Kong API
Gateway

Traefik API
Gateway

Amazon API
Gateway

Azure API
Management

...

Demo

- SPA:
<https://purple-flower-021fa1b03.azurestaticapps.net/home>
- SPA behind Security Gateway:
<https://demo-auth-gateway.azurewebsites.net/home>
- Source Code for Gateway:
<https://github.com/manfredsteyer/yarp-auth-proxy>
- Source Code for Auth in SPA:
<https://github.com/manfredsteyer/auth-gateway-client/>

Conclusion

Token:
Flexibility,
Cross Origin ...

OAuth 2:
Access to
Service

OpenId
Connect:
SSO at Client

Implicit Flow

Code Flow +
PKCE