



ANGULAR
ARCHITECTS
INSIDE KNOWLEDGE

Login and Access Control in Angular

angular-architects.io

Roles

Authorization-Server

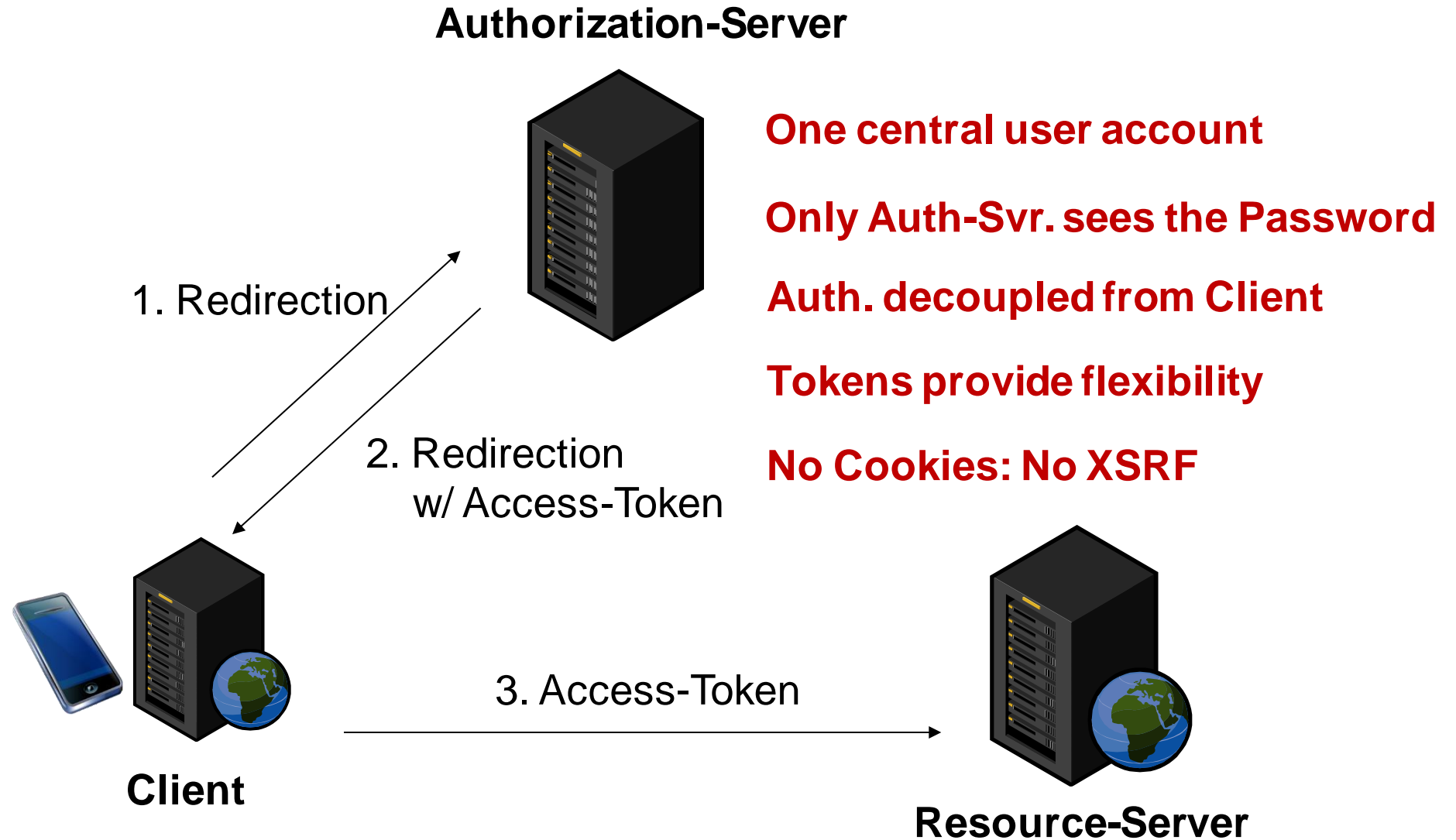


Client



Resource-Server

Flow



Lots of Auth Server out there ...

Active Directory
Federation
Services

Identity Server
(.NET)

Redhat Keycloak
(Java)

Okta

Auth0

Firebase

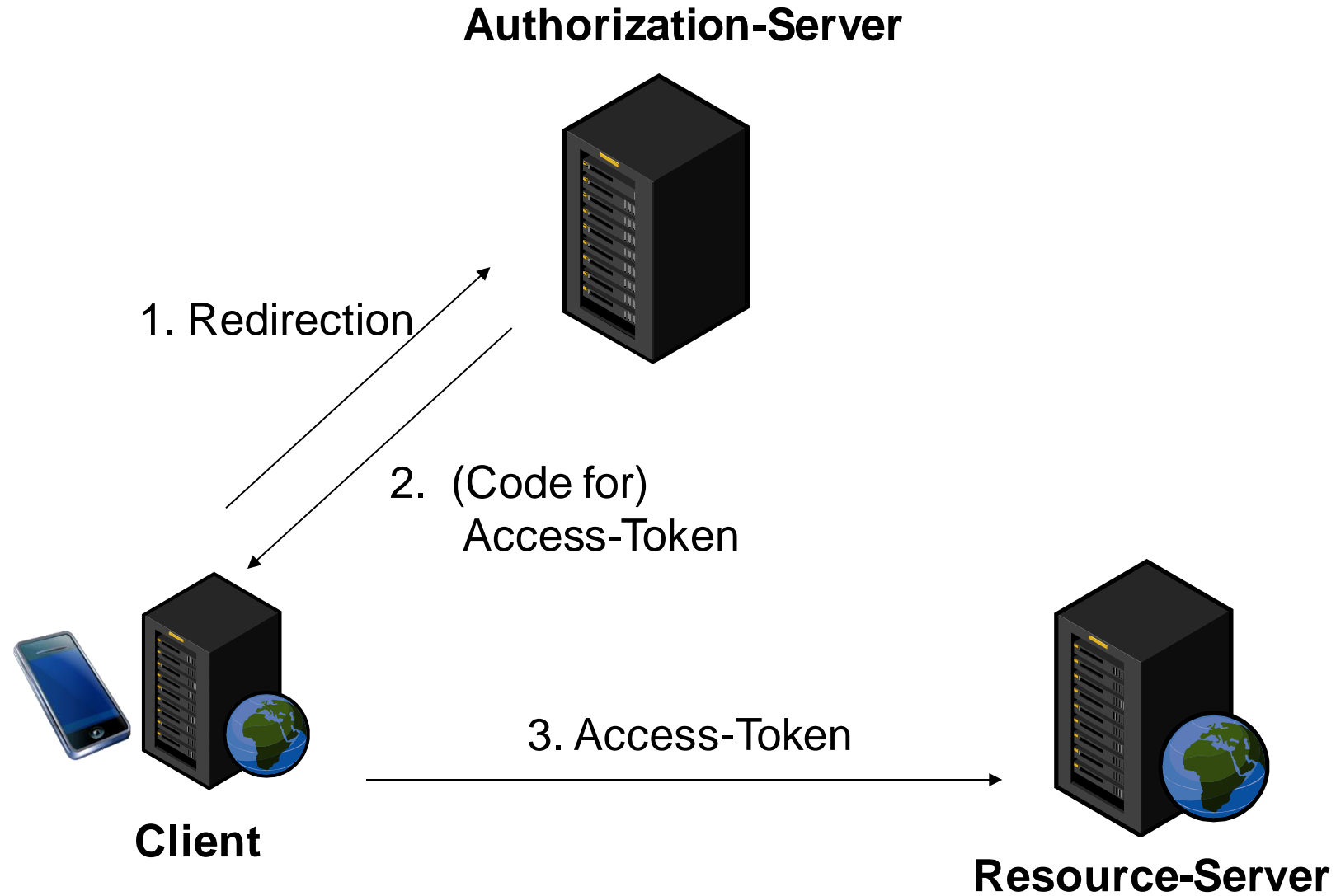
Azure Active
Directory

...

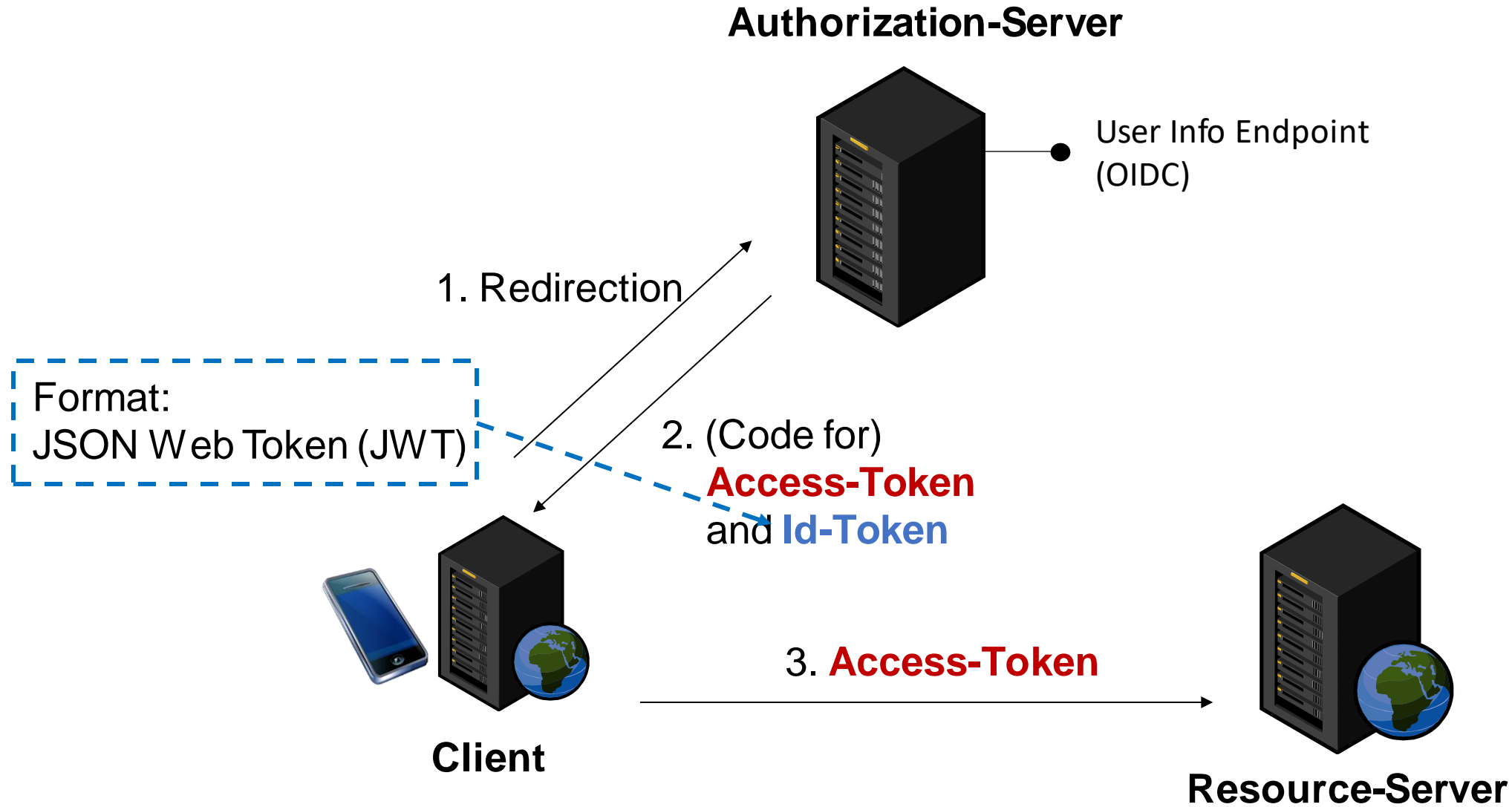


OAuth 2 and OpenId Connect

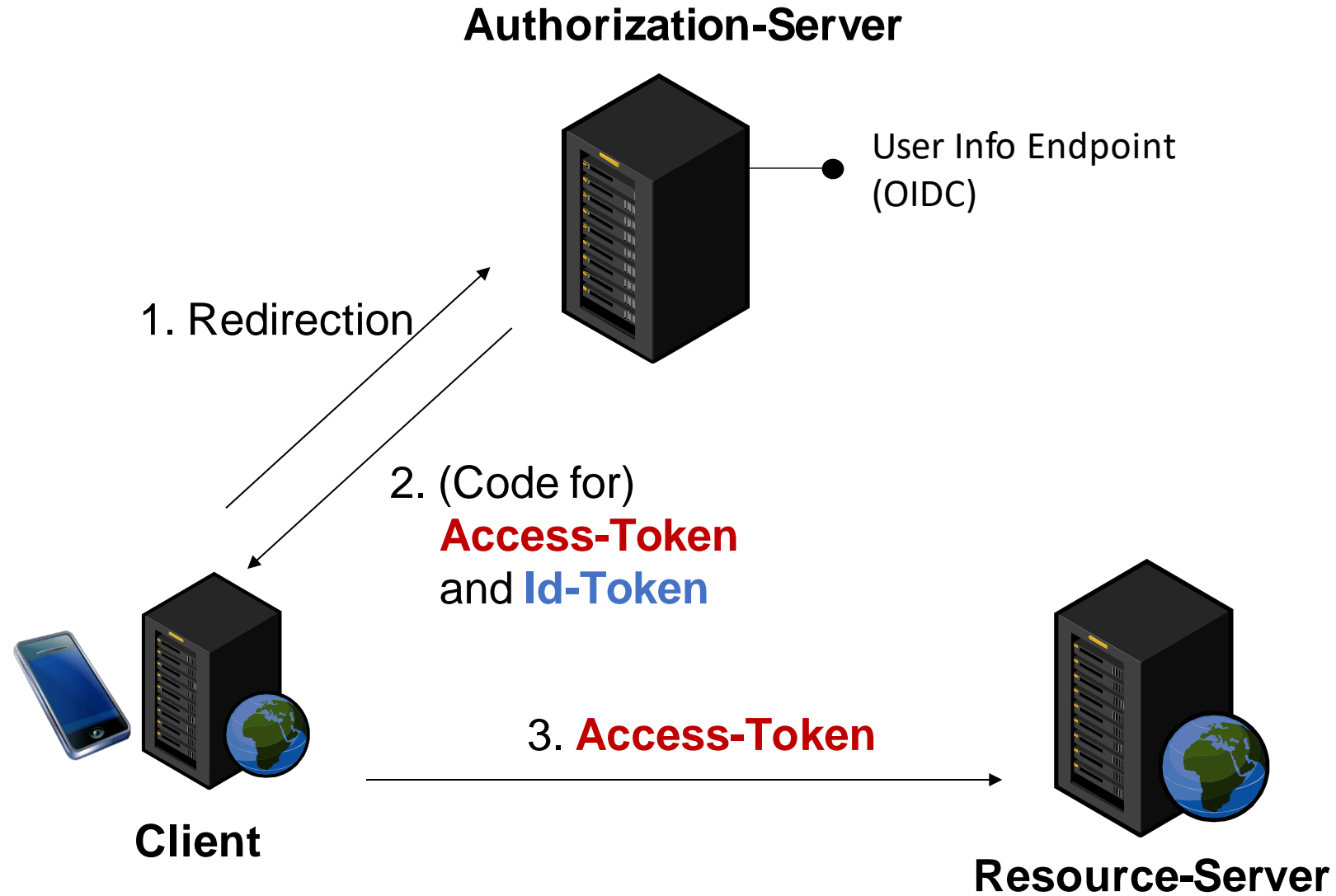
OAuth2



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 - npm



<https://www.npmjs.com/package/angular-oauth2-oidc>



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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...](https://github.com/manfredsteyer/angular-oauth2-oidc)

Homepage

[github.com/manfredsteyer/angular-oa...](https://github.com/manfredsteyer/angular-oauth2-oidc)

Weekly Downloads

119.863



Version

13.0.1

License

MIT



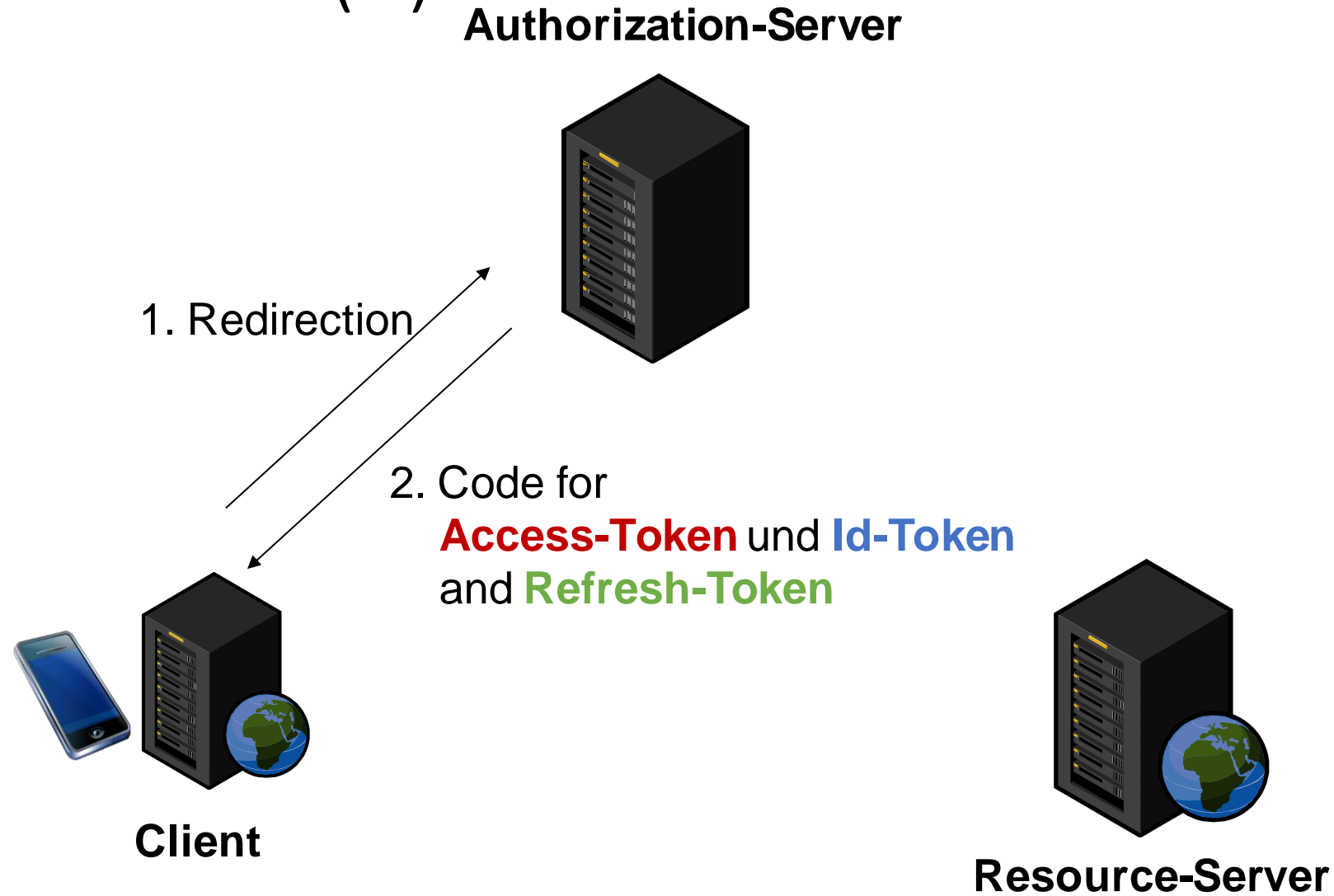
Token Refresh

Why Token Refresh?

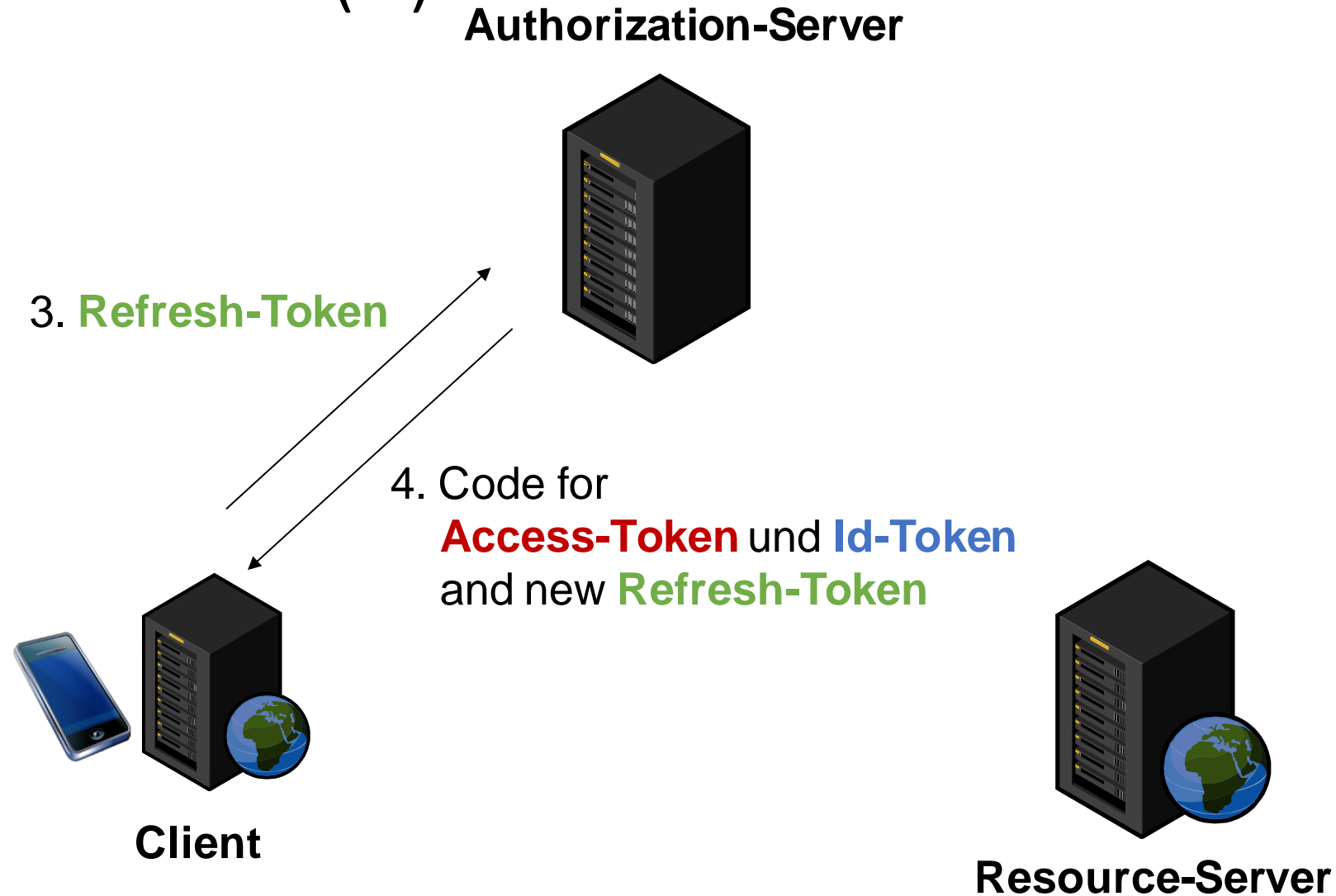
Short living Tokens
increase Security

Users don't want to
login over and over
again

Refresh Token (1)



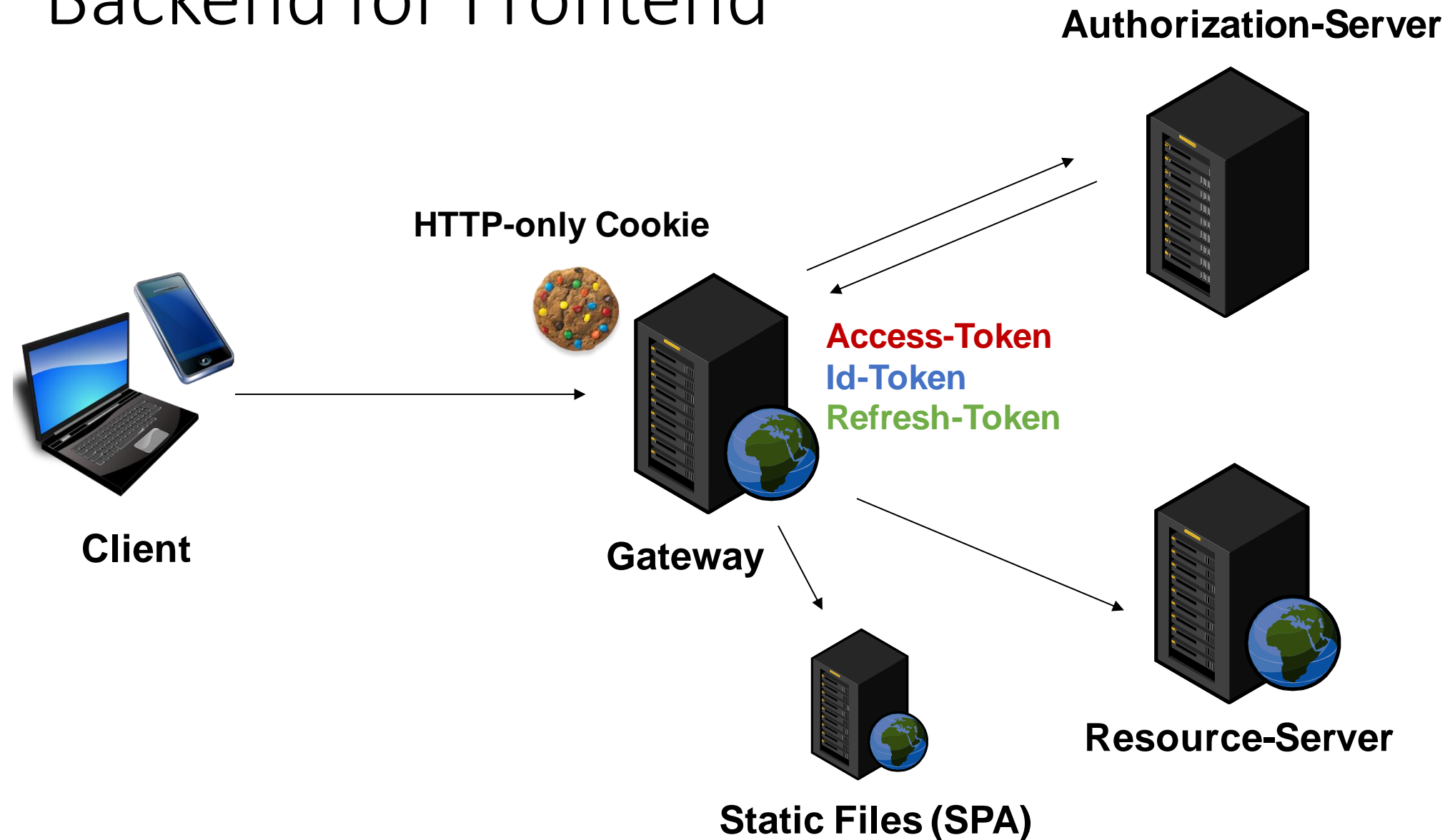
Refresh Token (2)



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