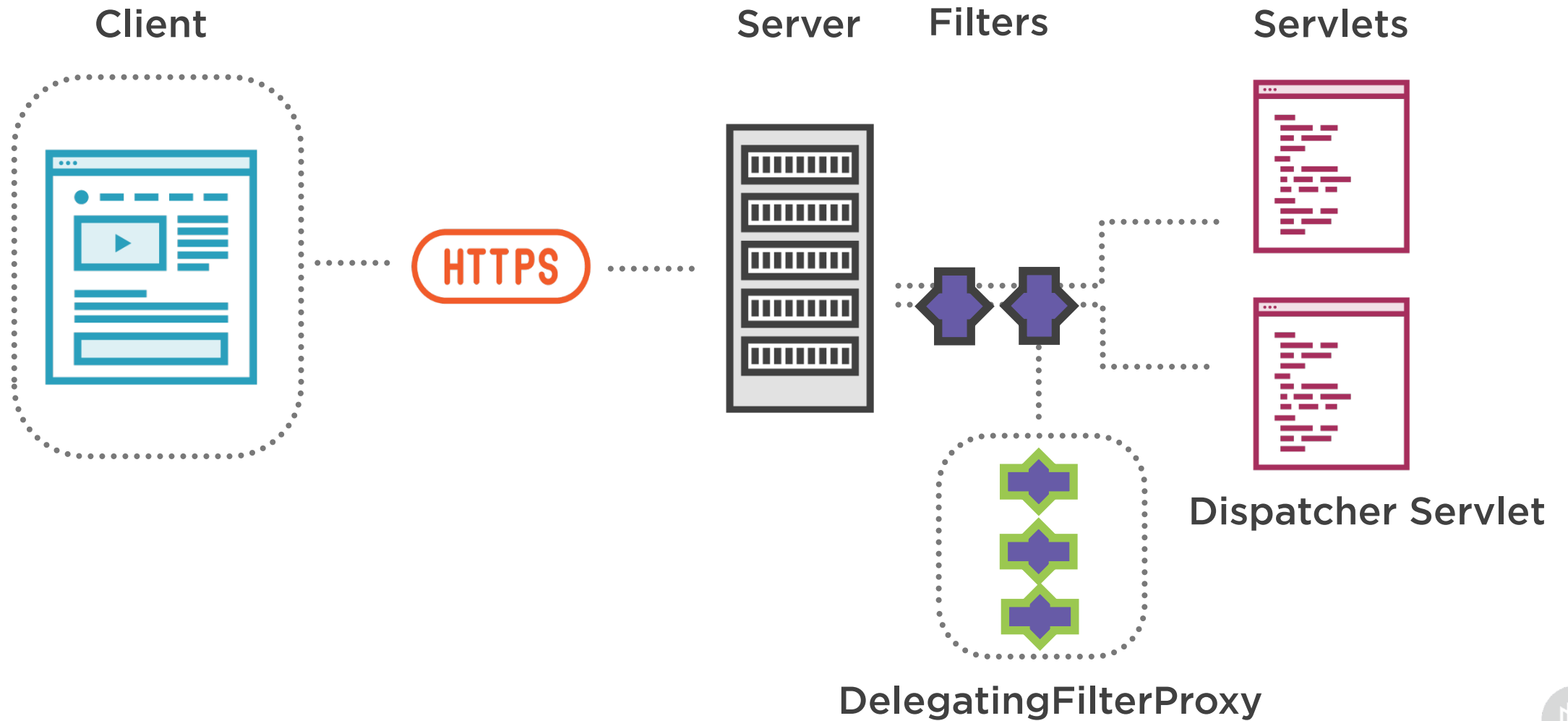
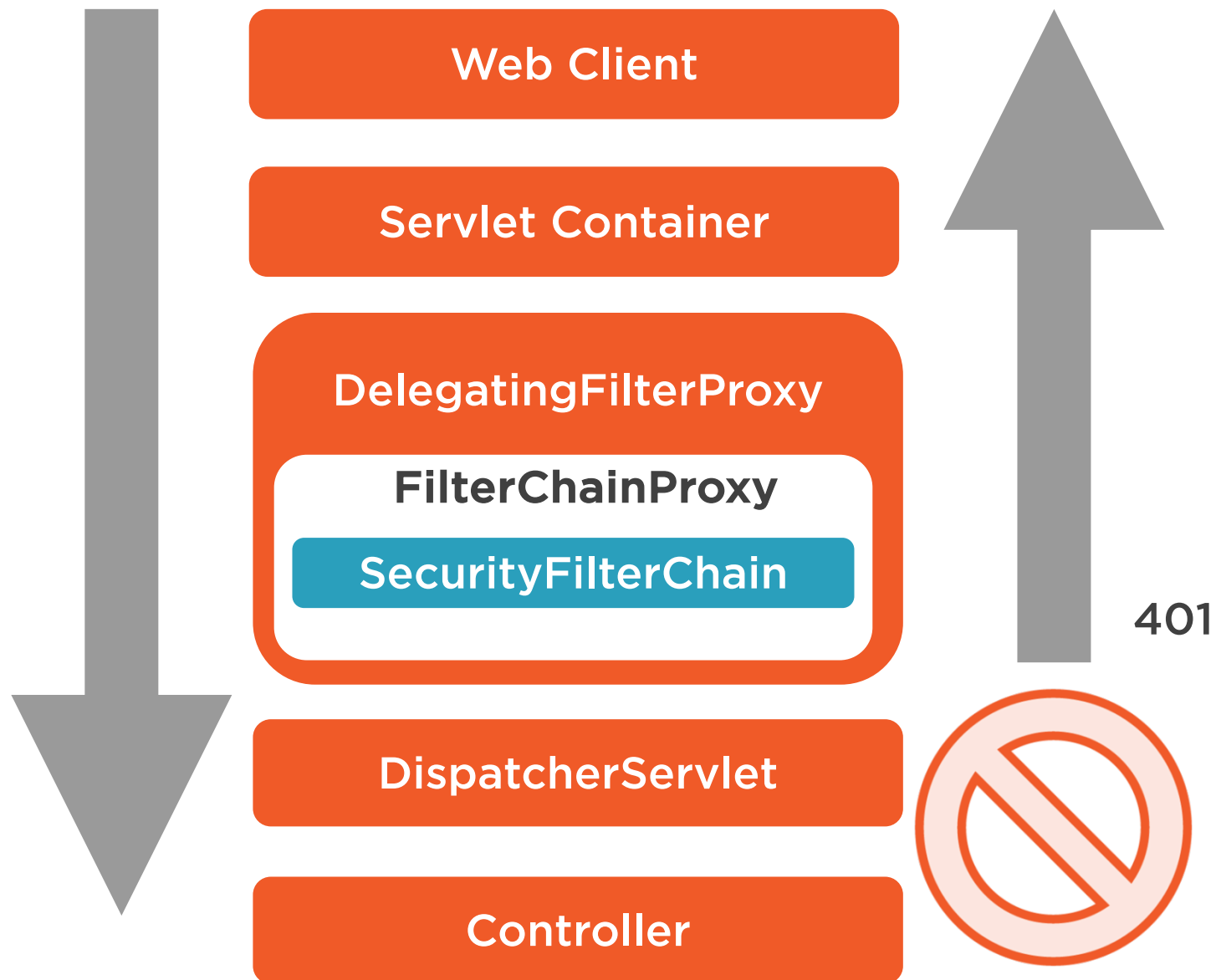


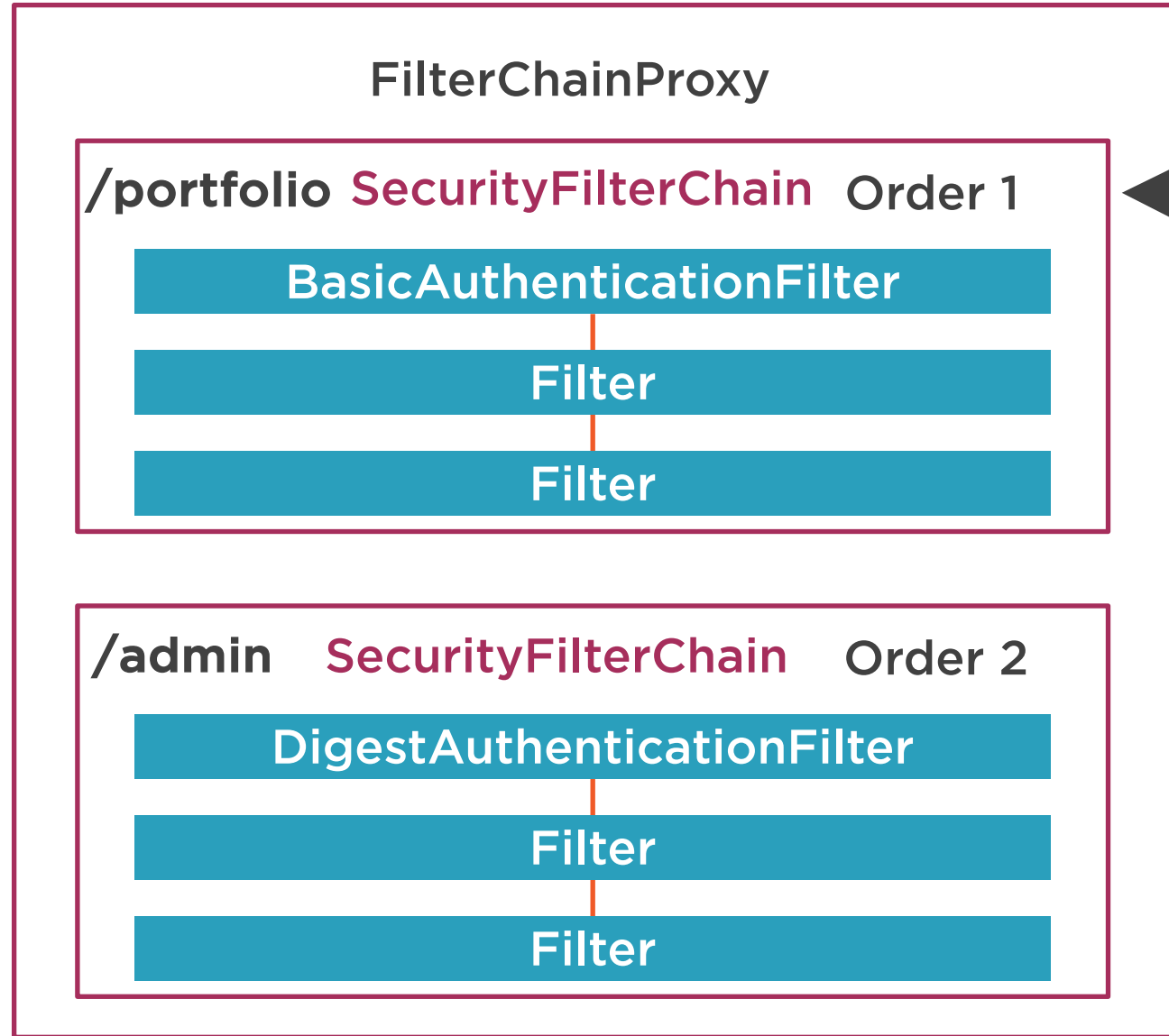
Servlets and Filters



Request

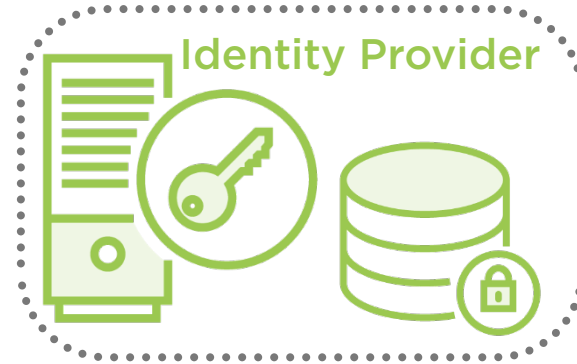


https://acme/admin





Sign-in



/oauth2/authorization/<registrationId>



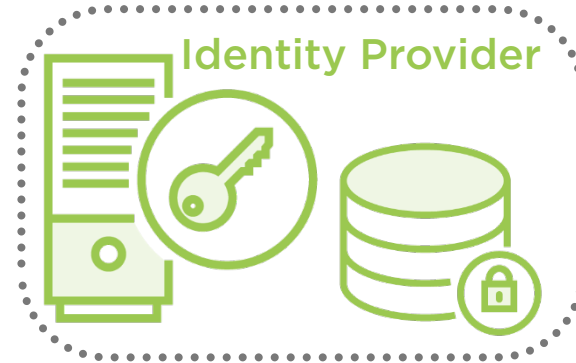
Redirect

`/?client_id=CLIENT_ID&redirect_uri=REDIRECT_URL&
scope=openid&response_type=code&state=STATE_TOKEN`

Client

OAuth2AuthorizationRequestRedirectFilter





REDIRECT_URI/login/oauth2/code/<registrationId>
/

?code=AUTH_CODE&state=STATE_TOKEN

Client

OAuth2LoginAuthenticationFilter



Authorization Response

/login/oauth2/code/<registrationId>/

?code=AUTH_CODE&state=STATE_TOKEN

OAuth2LoginAuthenticationFilter

OAuth2LoginAuthenticationToken

delegate

AuthenticationManager

authenticate

<< Authentication Provider >>

OidcAuthorizationCodeAuthenticationProvider

OAuth2LoginAuthenticationProvider

SecurityContextHolder

Security Context

OAuth2AuthenticationToken

OAuth2AuthorizedClientRepository

saveAuthorizedClient

OAuth2AuthorizedClientService

OAuth2AuthorizedClient

Authorization
code

Access token

Identity Provider



Interface OAuth2AuthorizedClientService

```
<T extends OAuth2AuthorizedClient> T loadAuthorizedClient(String  
clientRegistrationId, String principalName);
```

```
void saveAuthorizedClient(OAuth2AuthorizedClient authorizedClient,  
Authentication principal);
```

```
void removeAuthorizedClient(String clientRegistrationId, String  
principalName);
```



Authorization Response



OAuth2AuthorizationRequestRedirectFilter

OAuth2LoginAuthenticationFilter



AuthenticationManager



<< Authentication Provider >>

OpenIDAuthenticationProvider

OAuth2LoginAuthenticationProvider



SecurityContextHolder

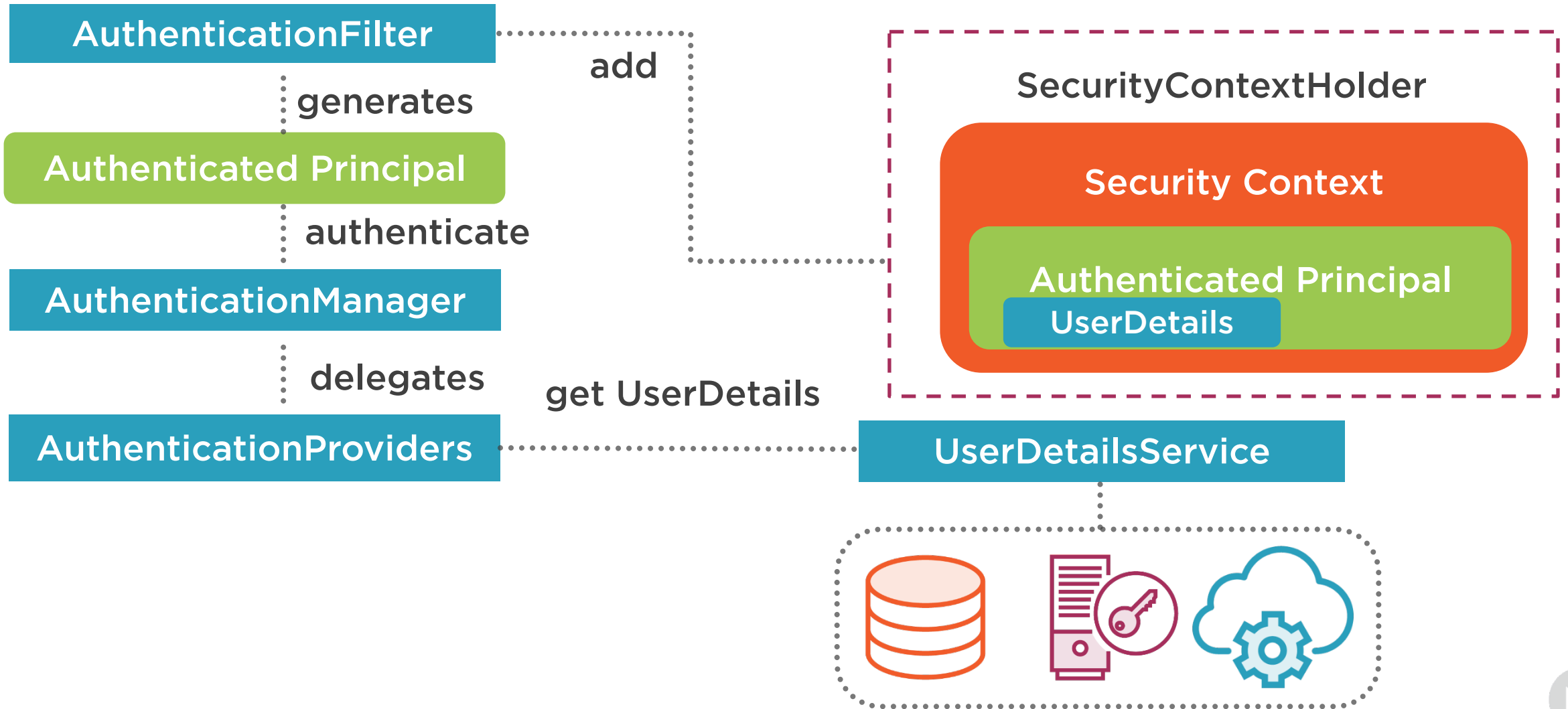
Security Context

Authenticated Principal

Identity Provider



Form Authentication



Subject



Human

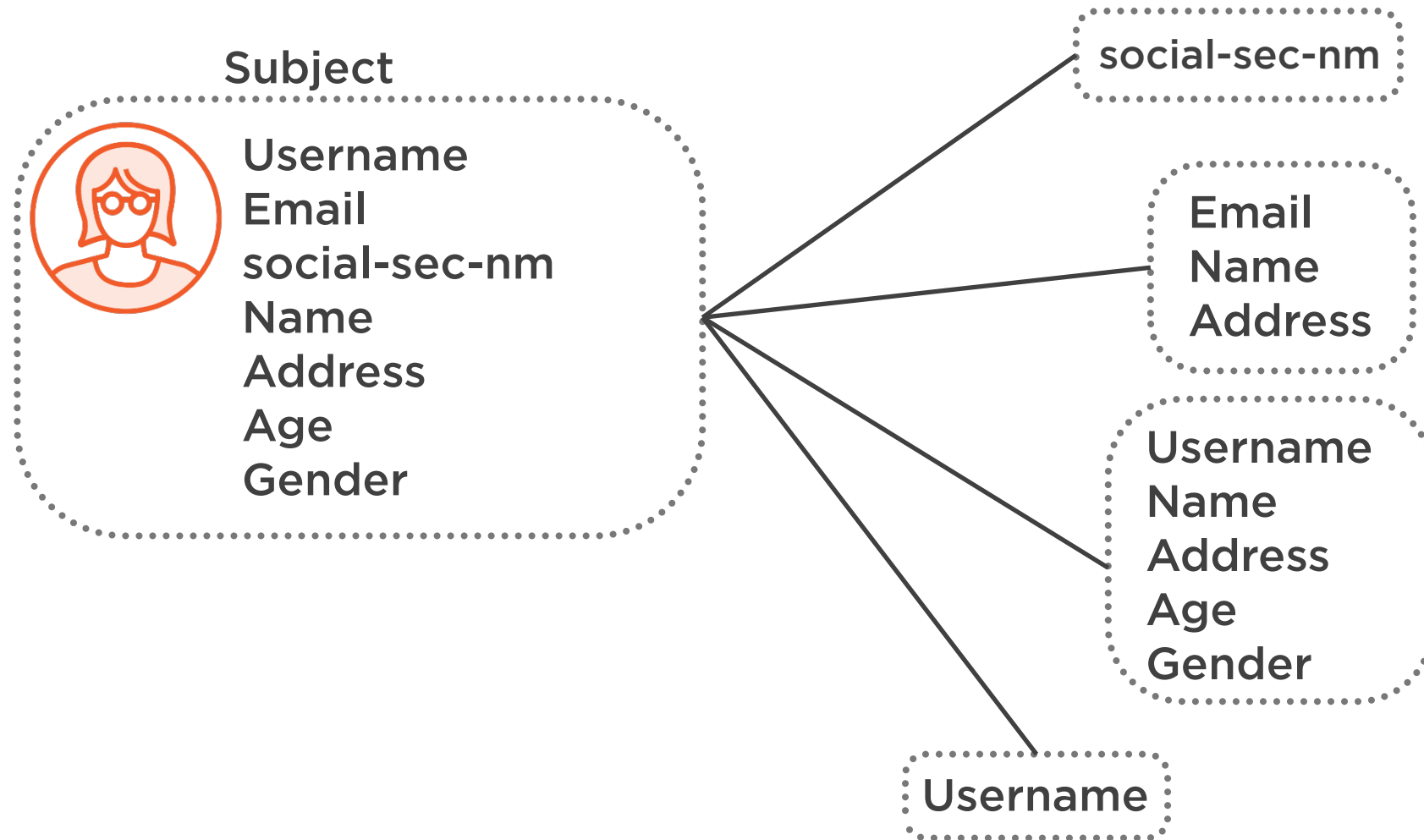


Server



Service

Principal





- Roles are prefixed with: **ROLE_**
- Scopes are prefixed with: **SCOPE_**
- Authorities are not prefixed

Roles and Authorities

ROLES



AUTHORITIES



getPrincipal()

Form Login

UserDetails

Oauth2

DefaultOAuth2User

OIDC

DefaultOidcUser



CustomUserTypesOAuth2UserService



Authorization Response



OAuth2AuthorizationRequestRedirectFilter

OAuth2LoginAuthenticationFilter



AuthenticationManager



<< Authentication Provider >>

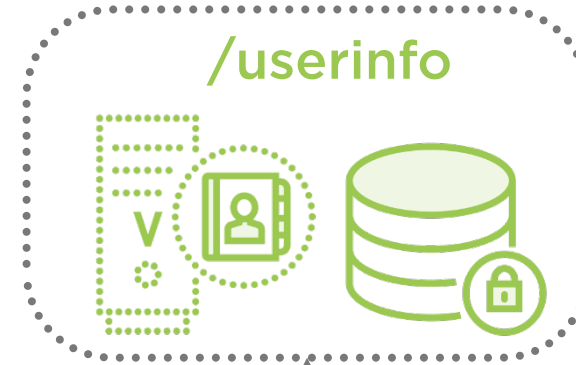
OpenIDAuthenticationProvider

OAuth2LoginAuthenticationProvider

OAuth2User

OAuth2UserService

OidcUserService



Summary



Current state:

- Google and Facebook sign-in
- Simplified user registration

Current vulnerabilities:

- Handles user passwords
- Maintains secrets
- Stores user's sensitive data

Future improvements:

- Build an Authorization Server

