



Week 5: Security

Unit 2: Deploying the Application Router for Authentication

Deploying the Application Router for Authentication

Set up authentication – Configure application router

Application router provides URL rewriting (can be downloaded from [SAP NPM Registry](#))

Content of ./approuter/xs-app.json

```
{  "routes": [{    "source": "^/ads",    "target": "/",    "destination": "ads-destination"  ]}]
```

Additional content of manifest.yml

```
- name:approuter  env:    TENANT_HOST_PATTERN: "^(.*)-bulletinboard-ads.cfapps.sap.hana.ondemand.com"    destinations: >      [{        "name": "ads-destination",        "url": "https://bulletinboard-ads.cfapps.sap.hana.ondemand.com",        "forwardAuthToken": true      }]    services:      - uaa-bulletinboard
```

Deploying the Application Router for Authentication

Addendum: JSON Web Token (JWT)

Represents claims securely between two parties

```
{
  "client_id": "sb-bulletinboard-p2000113766!t1928",
  "iss": "http://p2000113766trial.localhost:8080/uaa/oauth/token",
  "exp": 1453498324,
  "scope": [
    "bulletinboard-p2000113766!t1928.Display"
  ],
  "user_name": "anyUser@email.com",
  "user_id": "8f47e33f-e704-4080-84cf-aae788162837",
  "zid": "a09a3440-1da8-4082-a89c-3cce186a9b6c"
}
```

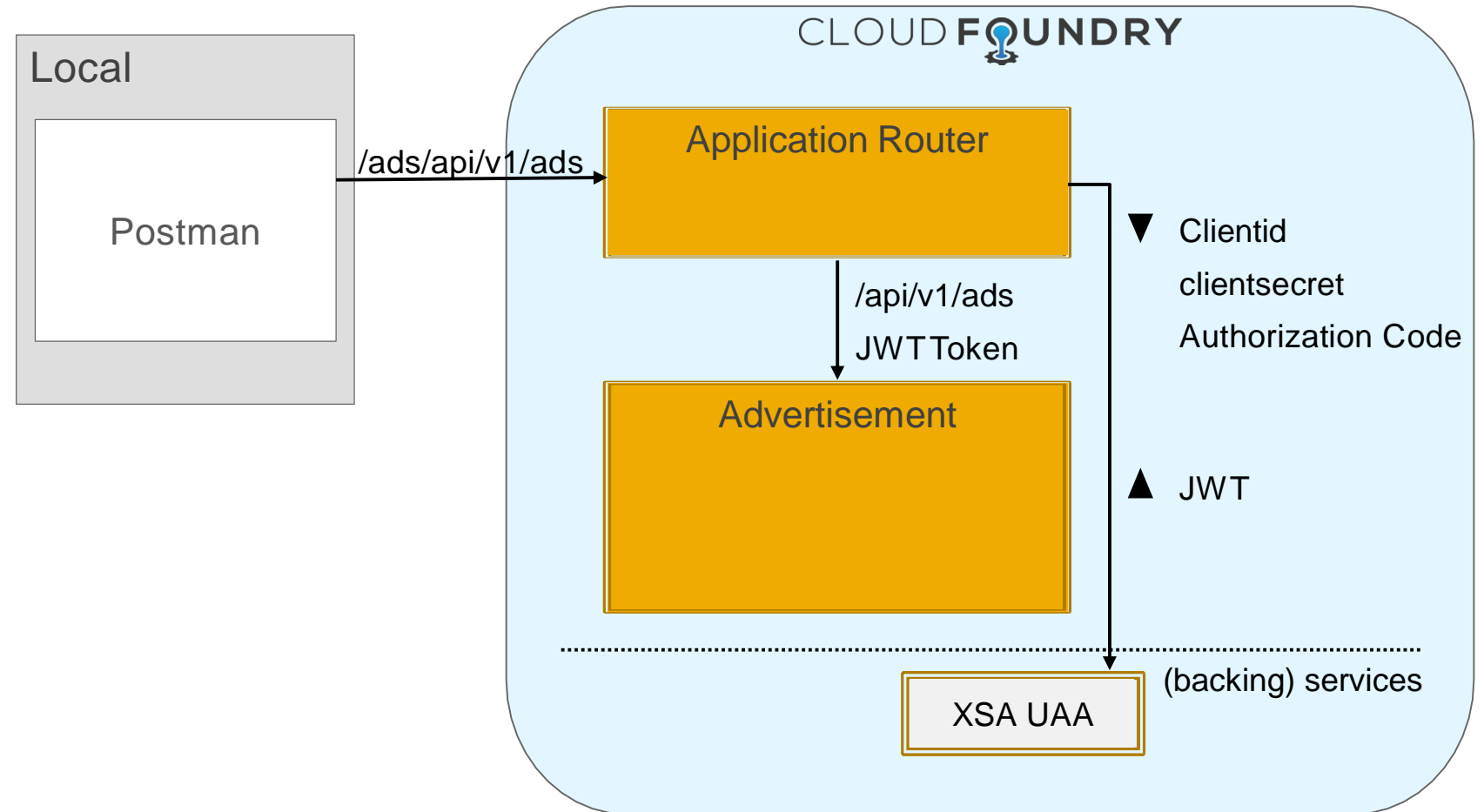
- Token has a maximum size (~16 KB) – don't make app's authorization model too complex!
- UAA service signs token with private key; public key is provided as part of VCAP_SERVICES (verificationkey)
- Unique tenant GUID is provided in zid (identity zone ID)

Deploying the Application Router for Authentication

Exercise 22

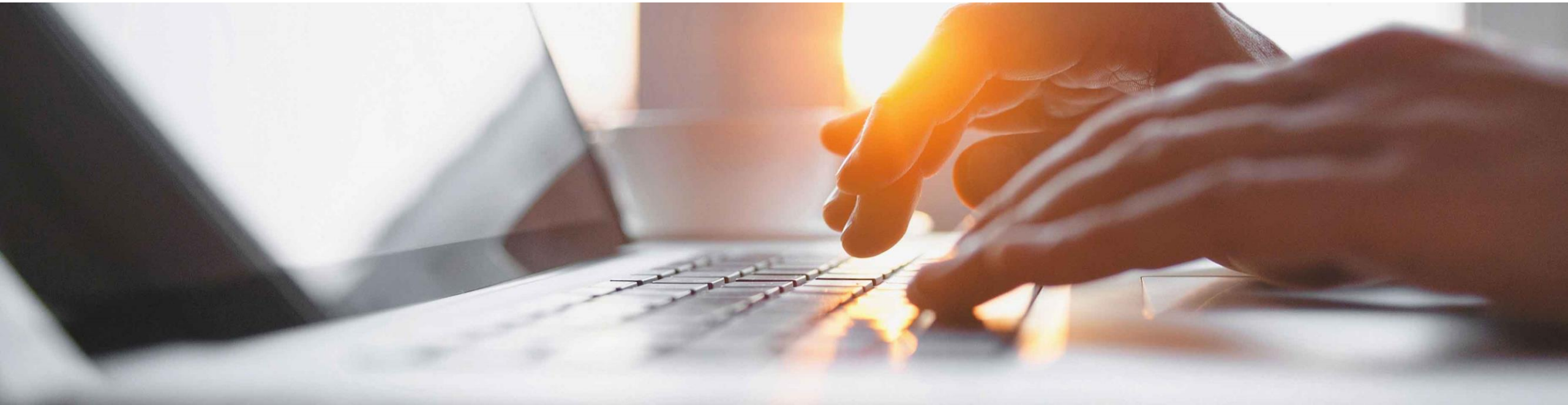


Exercise 22: Deploy Application Router and Set Up Authentication



Deploying the Application Router for Authentication

Review of sample solution



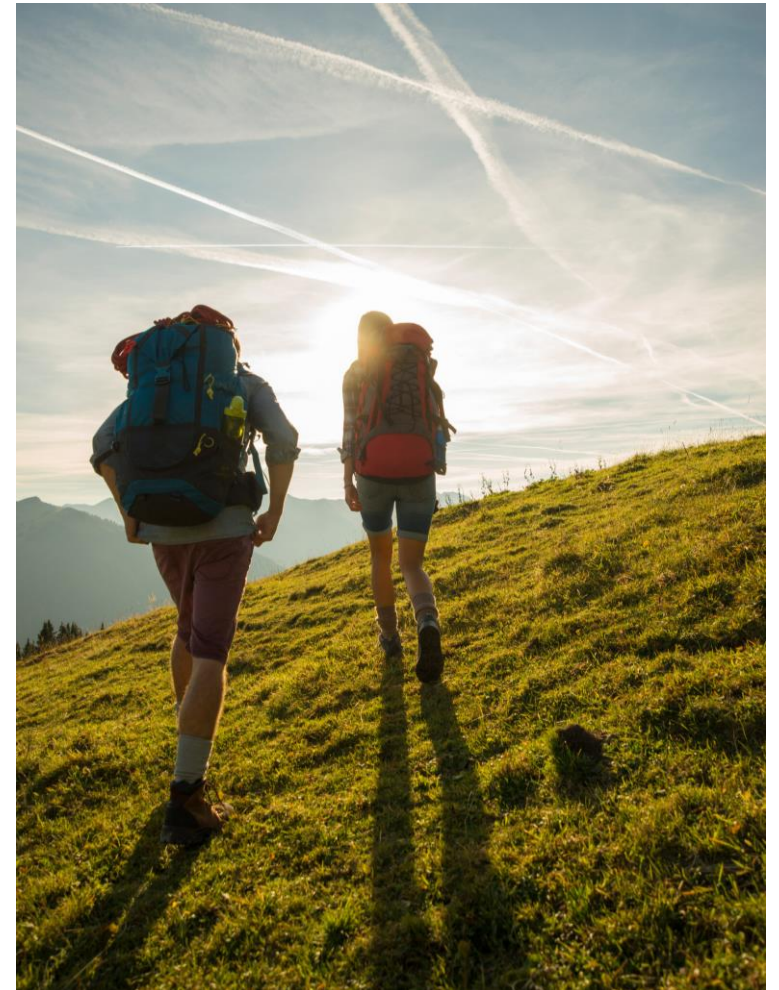
Deploying the Application Router for Authentication

Further reading



Additional Material

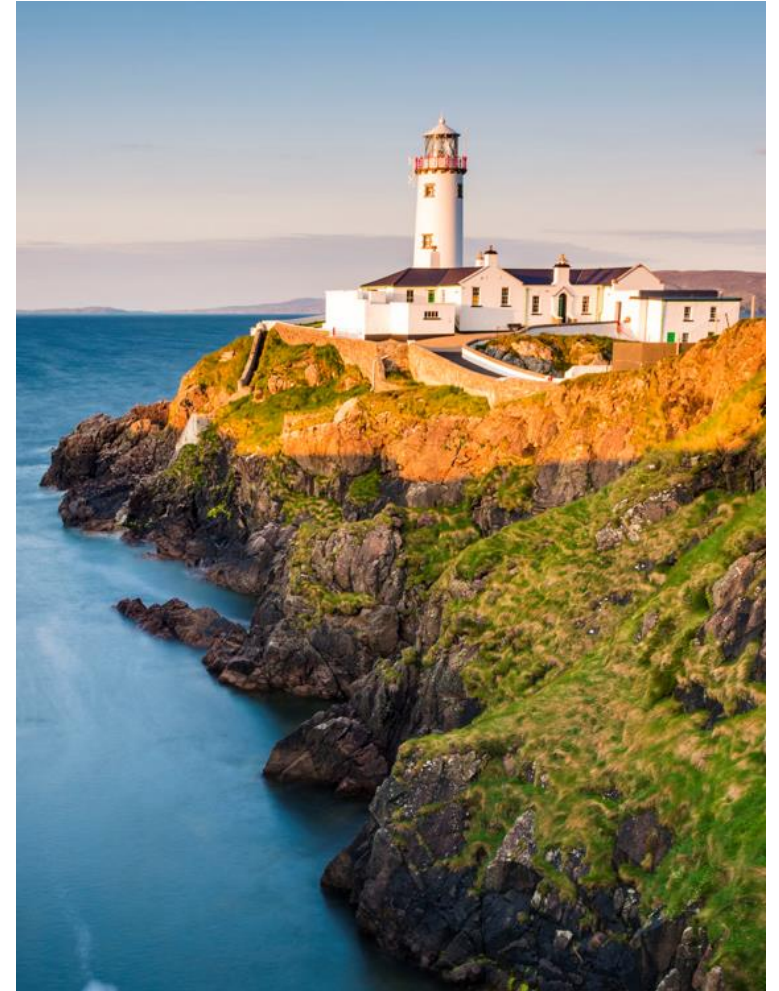
- [Introduction to JSON Web Tokens \(JWTs\)](#)
- SAP NPM Registry: <https://npm.sap.com/> (to be consumed by NPM)
- [SAP NPM Registry launched: Making the lives of Node.js developers easier](#)



Deploying the Application Router for Authentication

What you've learned in this unit

- How to set up authentication by configuring the application router
- JSON Web Tokens (JWTs)
 - What they are
 - Why we use them
 - How to use them
- How to deploy the application router and set up authentication



Thank you.

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