

Hands-On

Seeing Fedora 4 Firsthand

Learning Objectives

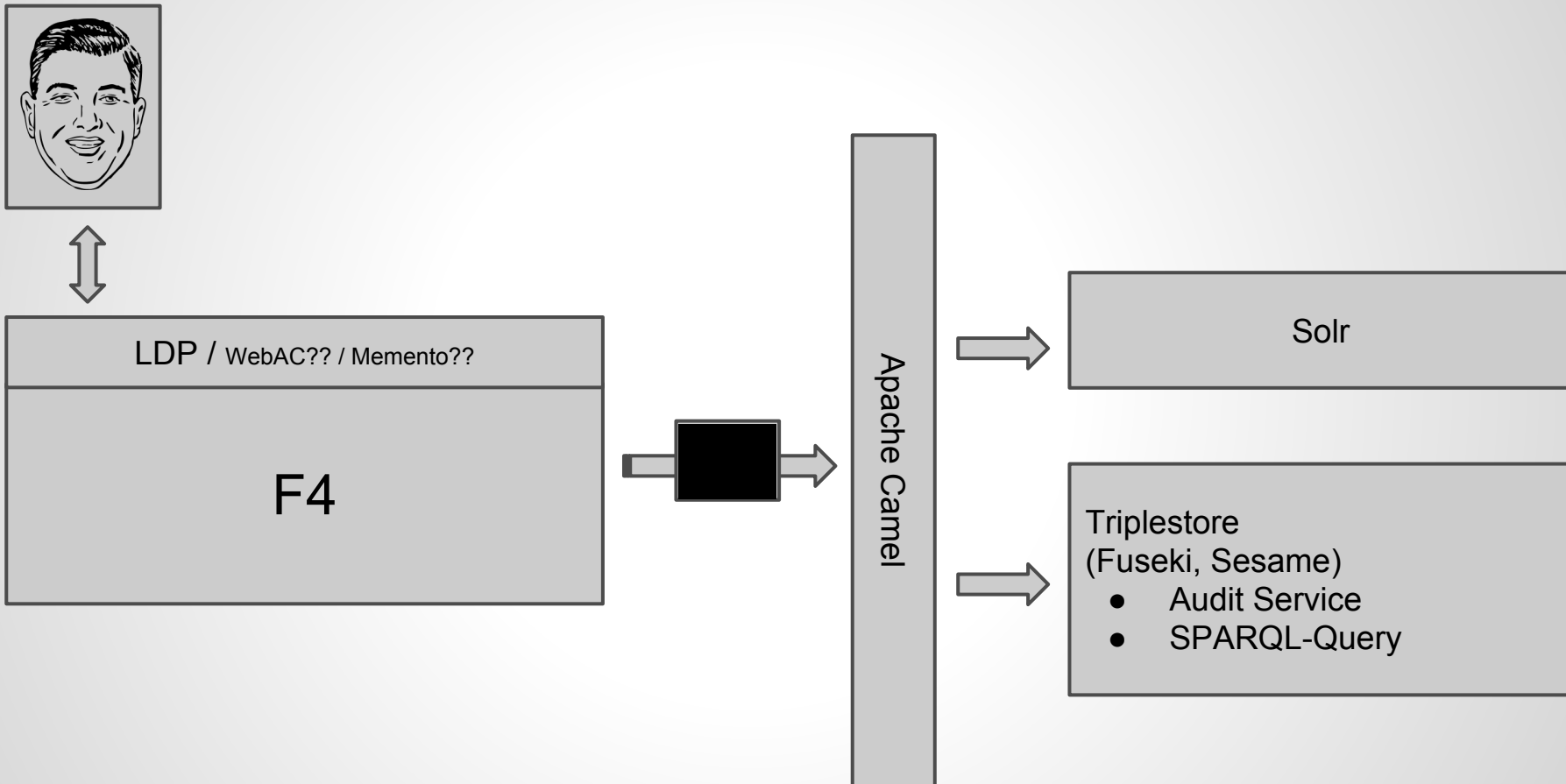
Explore core and external features

Explore Fedora HTML UI

Gain insight into content modeling (PCDM)

Gain insight into interaction models (LDP)

Fedora Vagrant Components



Final result (structure)

- objects/

- cover/

- files/

- cover.jpg
 - cover.tiff

- book/

- members/

- coverProxy

} ** Bonus **

Final result (relationships)

<cover> pcdm:hasFile <cover.jpg>

<cover> pcdm:hasFile <cover.tiff>

<book> pcdm:hasMember <cover>

Create an “objects” Container

Per PCDM

- top-level container for first-class resources

Create a “cover” Container

...contained inside “objects”

PUT vs. POST

Make “cover” a pcdm:Object

```
PREFIX pcdm: <http://pcdm.org/models#>
```

```
INSERT { <> a pcdm:Object }
```

```
WHERE { }
```


Create “files” Container

...contained inside “cover”

Make “files” an ldp:DirectContainer

```
PREFIX ldp: <http://www.w3.org/ns/ldp#>
```

```
PREFIX pcdm: <http://pcdm.org/models#>
```

```
INSERT {
```

```
  <> a ldp:DirectContainer, pcdm:Object ;
```

```
    ldp:membershipResource </fcrepo/rest/objects/cover/> ;
```

```
    ldp:hasMemberRelation pcdm:hasFile .
```

```
}
```

```
WHERE { }
```

Create some cover images

...contained inside “files”

cover.jpg

cover.tiff

- * See auto-generated relationship on “cover”
- * Fixity

Bonus Round

Create a “book” Container

...contained inside “objects”

Make “book” a pcdm:Object

```
PREFIX pcdm: <http://pcdm.org/models#>
```

```
INSERT { <> a pcdm:Object }
```

```
WHERE { }
```

Create a “members” Container

...contained inside “book”

Make “members” an Idp:IndirectContainer

PREFIX Idp: <http://www.w3.org/ns/ldp#>

PREFIX pcdm: <http://pcdm.org/models#>

PREFIX ore: <http://www.openarchives.org/ore/terms/>

INSERT {

<> a Idp:IndirectContainer, pcdm:Object ;

Idp:membershipResource </fcrepo/rest/objects/book/> ;

Idp:hasMemberRelation pcdm:hasMember ;

Idp:insertedContentRelation ore:proxyFor .

}

WHERE { }

Create a “coverProxy” Container

...contained inside “members”

Make “coverProxy” proxy for...

PREFIX pcdm: <http://pcdm.org/models#>

PREFIX ore: <http://www.openarchives.org/ore/terms/>

INSERT {

<> a pcdm:Object ;

ore:proxyFor </fcrepo/rest/objects/cover/> ;

ore:proxyIn </fcrepo/rest/objects/book/> .

}

WHERE { }

Other Features

- * Versioning
- * Transactions
- * Transform
- * Authorization

F4 / LDP / PCDM in action

[LDP-PCDM-F4+In+Action](#)