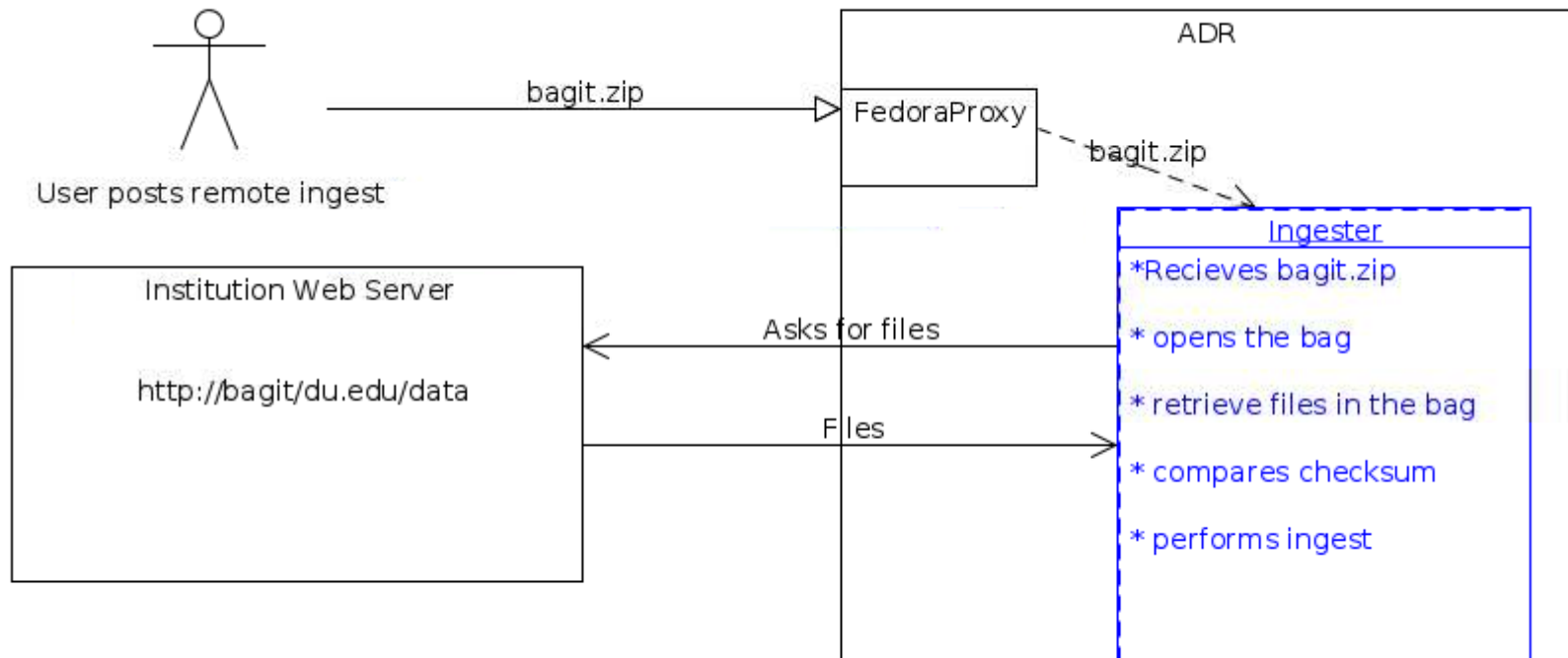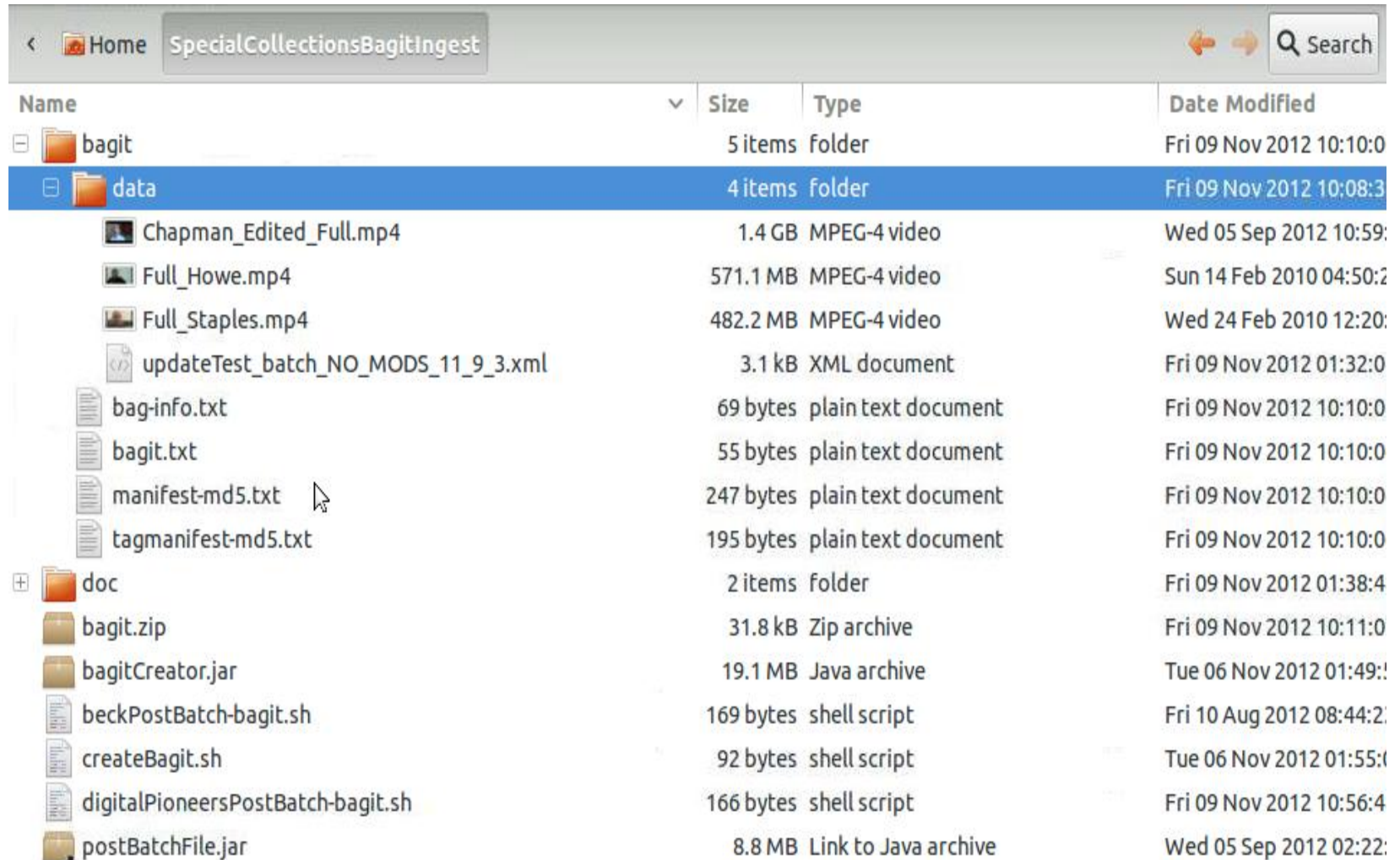# DU

REMOTE

Bagit Ingest

Nov 2012

Diagram of a bagit ingest

Steps to perform a remote ingest

- Copy files to be ingested into the bagit data directory (data directory is assessable with http://bagit.du.edu/data)

- Create the bagit.zip file

- Post the bagit.zip file to the ADR server

Copy files into the bagit data directory

Create the bagit.zip file

chet@lib-ram:

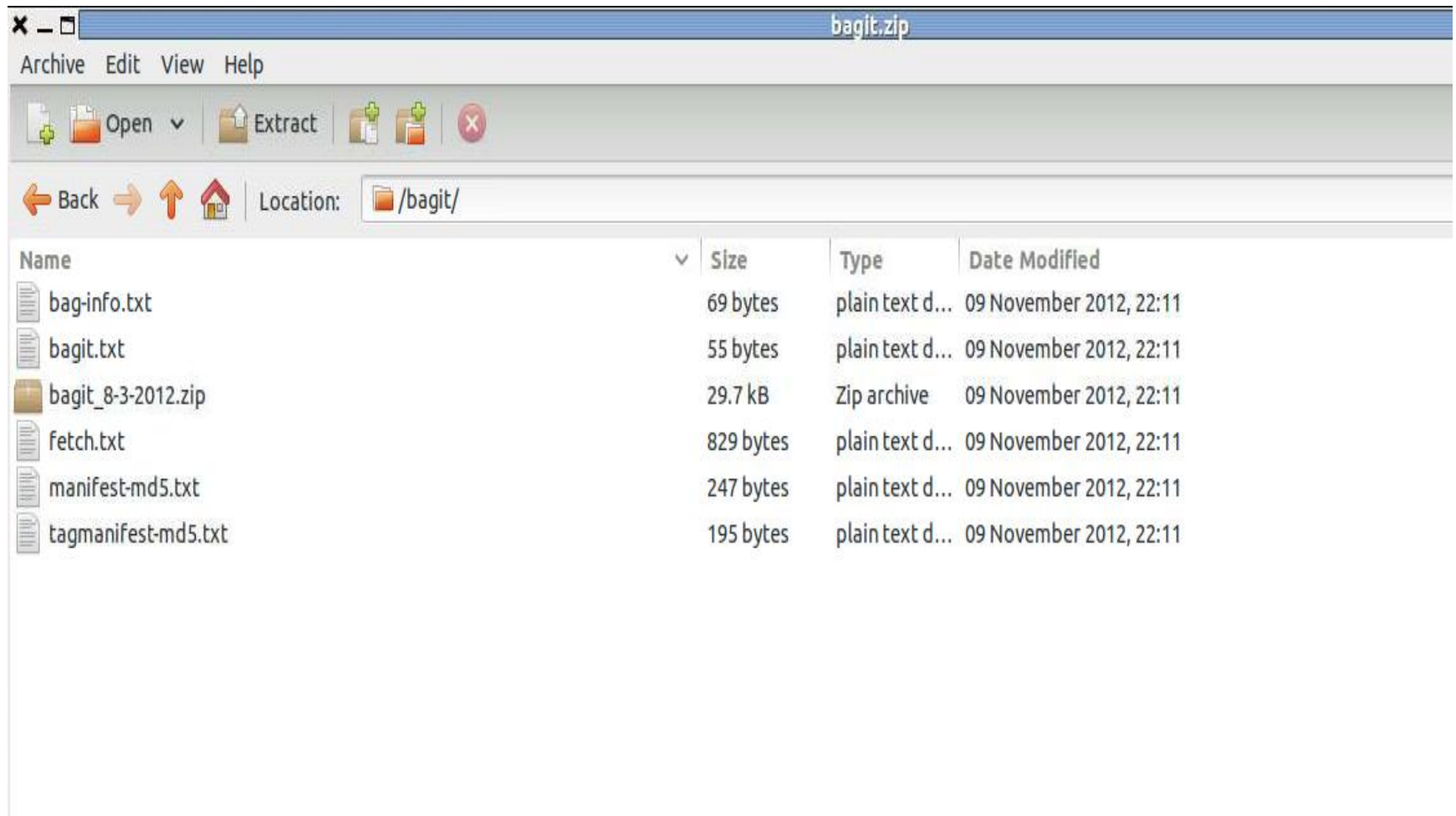## cd SpecialCollectionsBagitIngest/

./createBagit.sh
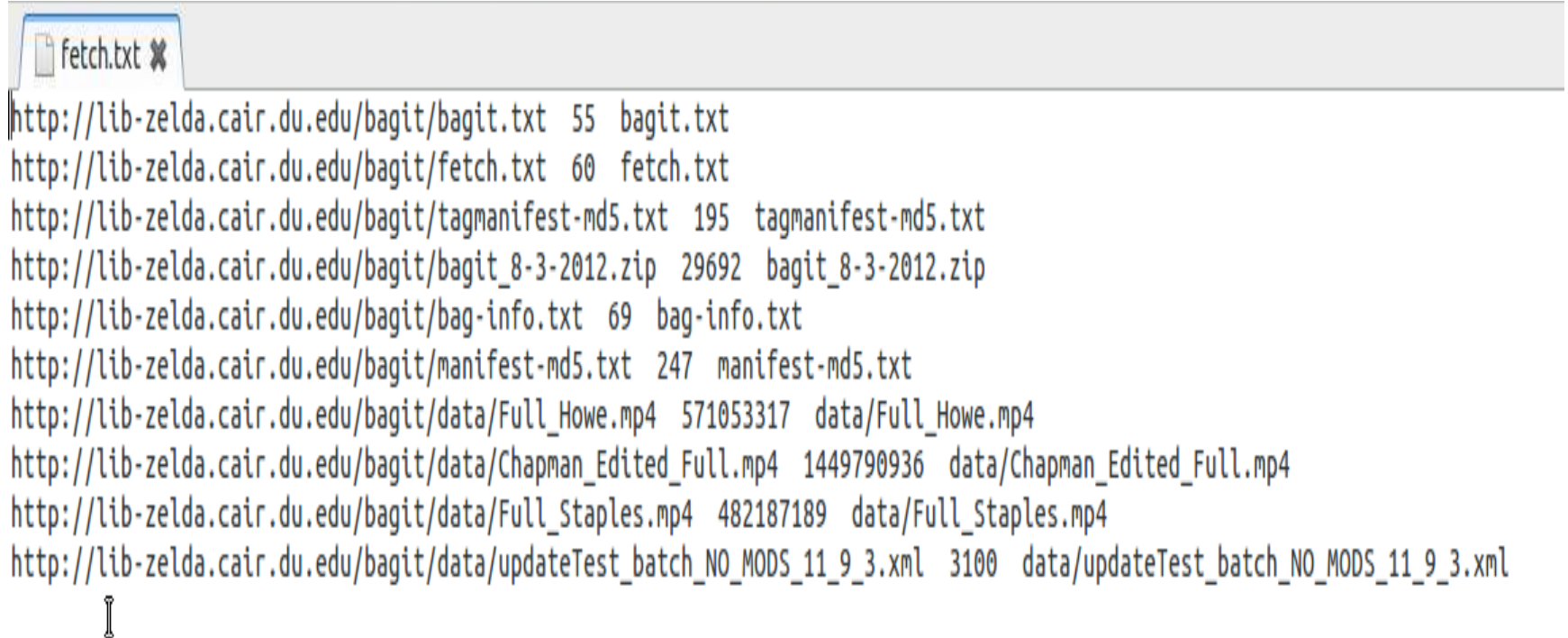
[INFO,DefaultBag,main] gov.loc.repository.bagger.bag.impl.DefaultBag: DefaultBag.init file: null, version: 0.96
[INFO,PreBagImpl,main] Making a bag in place at ./bagit
[INFO,FileSystemWriter,main] Writing bag
[INFO,HolePuncherImpl,main] Making bag holey
[INFO,FetchTxtImpl,main] Creating new fetch.txt.
[INFO,CompleteVerifierImpl,main] Completed verification that bag is complete.
[INFO,CompleteVerifierImpl,main] Note that this a verification of completeness, not validity. A bag may be complete without being valid, though a valid bag must be complete.
[INFO,CompleteVerifierImpl,main] Result of verification that complete: Result is true. missingAndInvalidFiles: []
[INFO,ValidVerifierImpl,main] Completed verification that bag is valid.
[INFO,ValidVerifierImpl,main] Validity check: Result is true. missingAndInvalidFiles: []
[INFO,DefaultBag,main] Bag-Info to write: {Bag-Size=2.3 GB, Bagging-Date=2012-11-09, Payload-Oxum=2503034542.4}
[INFO,ZipWriter,main] Writing bag
[INFO,FetchTxtImpl,main] Creating fetch.txt.
[INFO,DefaultBag,main] gov.loc.repository.bagger.bag.impl.DefaultBag: DefaultBag.init file: ./bagit, version: 0.96
[INFO,CompleteVerifierImpl,main] Completed verification that bag is complete.
[INFO,CompleteVerifierImpl,main] Note that this a verification of completeness, not validity. A bag may be complete without being valid, though a valid bag must be complete.
[INFO,CompleteVerifierImpl,main] Result of verification that complete: Result is true. missingAndInvalidFiles: []
[INFO,ValidVerifierImpl,main] Completed verification that bag is valid.
[INFO,ValidVerifierImpl,main] Validity check: Result is true. missingAndInvalidFiles: []

valid bag

Contents of the bag

Contents of the fetch.txt file


```
fetch.txt ✖

http://lib-zelda.cair.du.edu/bagit/bagit.txt  55  bagit.txt
http://lib-zelda.cair.du.edu/bagit/fetch.txt  60  fetch.txt
http://lib-zelda.cair.du.edu/bagit/tagmanifest-md5.txt  195  tagmanifest-md5.txt
http://lib-zelda.cair.du.edu/bagit/bagit_8-3-2012.zip  29692  bagit_8-3-2012.zip
http://lib-zelda.cair.du.edu/bagit/bag-info.txt  69  bag-info.txt
http://lib-zelda.cair.du.edu/bagit/manifest-md5.txt  247  manifest-md5.txt
http://lib-zelda.cair.du.edu/bagit/data/Full_Howe.mp4  571053317  data/Full_Howe.mp4
http://lib-zelda.cair.du.edu/bagit/data/Chapman_Edited_Full.mp4  1449790936  data/Chapman_Edited_Full.mp4
http://lib-zelda.cair.du.edu/bagit/data/Full_Staples.mp4  482187189  data/Full_Staples.mp4
http://lib-zelda.cair.du.edu/bagit/data/updateTest_batch_NO_MODS_11_9_3.xml  3100  data/updateTest_batch_NO_MODS_11_9_3.xml
```

Send the bag to the ADR

chet@lib-ram:

./digitalPioneersPostBatch-bagit.sh

ADR receives bag
and extracts its contents

Fedora Ingest Client 1.60

Home   **Ingest Tasks (manual, _REMOTE and background _TASK)** *5 Second Refresh*

BatchSetName	Institution	BatchSet	Status
demo_fedoraAppDemoCollection_REMOTE	demo	fedoraAppDemoCollection	Exctacting bag batch_bagit_REMOTE.zip
codu_mixed_TASK	codu	mixed	Checking to see if there is anything to ingest

ADR reads the contents of fetch.txt and fetches all needed files from the Institutions server

Ingest retries until unable to retrieve files

Retrieving Files

Validating the complete bagit.zip which is now at the ADR

The Ingest is ready to start

The ingest is complete, objects are now if Fedora and an email of results is sent

Fedora Batch Ingest - Mozilla Firefox

File   Edit   View   History   Bookmarks   Tools   Help

Problem loading page ✖ | Fedora Batch Ingest ✖ | aquatic-animal-mammal-un... ✖ | Error 404 - Not Found ✖

localhost:7080/fedoraApp/viewRunningIngests.htm | Google

YP Rocky Mountain Smal...   W Weebly - Create a fre...   ADR ADR Basic Document...   Air Care Colorado :: V...   The Ocean Explorer   Public Domain Images   »

Fedora Ingest Client
1.60

Home   **Ingest Tasks (manual, _REMOTE and background _TASK)** *5 Second Refresh*

BatchSetName	Institution	BatchSet	Status
demo_fedoraAppDemoCollection_REMOTE	demo	fedoraAppDemoCollection	Completed

Sample Batch File
(inside bagit.zip)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<batch version="2">
<ingestControl command="u" type="pco">

<mets:mets xmlns:mets="http://www.loc.gov/METS/" OBJID="codu:63667" LABEL="Howe, Kay Digital Pioneers Oral History">

  <mets:fileSec>
    <mets:fileGrp ID="GR1" USE="master">
      <mets:file MIMETYPE="video/mp4" ID="Full_Howe.mp4">
        <mets:FLocat xmlns:xlink=http://www.w3.org/1999/xlink LOCTYPE="URL"xlink:href="file:Full_Howe.mp4"></mets:FLocat>
      </mets:file>
     </mets:fileGrp>
   </mets:fileSec>

   <mets:structMap TYPE="logical">
       <mets:div TYPE="section" LABEL="Howe, Kay Digital Pioneers Oral History" ID="Full_Howe.id">
         <mets:fptr FILEID="Full_Howe.mp4 "></mets:fptr>
        </mets:div>
     </mets:structMap>

</mets:mets>

</batch>
```

Contents of script to post the bag to the ADR

- #!/bin/sh
- java -jar postBatchFile.jar UserName UserPassword http://fedora.coalliance.org:9080/fedoraProxy/du/codu/digitalPioneers/ingest.it bagit.zip

- java -jar postBatchFile.jar UserName UserPassword http://fedora.coalliance.org:9080/fedoraProxy/du/codu/digitalPioneers/ingest.it bagit.zip