BitCurator

Tools for Digital Forensics Methods and Workflows in Real-World Collecting Institutions

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UNC SCHOOL OF INFORMATION AND LIBRARY SCIENCE

The Andrew W. Mellon Foundation

MITH MARYLAND INSTITUTE FOR TECHNOLOGY IN THE HUMANITIES

WHAT WE'RE DOING

Developing tools, methods, and approaches for collecting professionals that incorporate the functionality of modern digital forensics tools (focusing on open source)

Cultivating professional connections and community building around the methods and software

Generating and disseminating supporting documentation

WHY WE'RE DOING IT

There are already many cases of self-contained Linux-based packages that bundle many of the tools in order to support digital forensics activities. However, they are not very approachable to library/archives professionals in terms of interface and documentation.

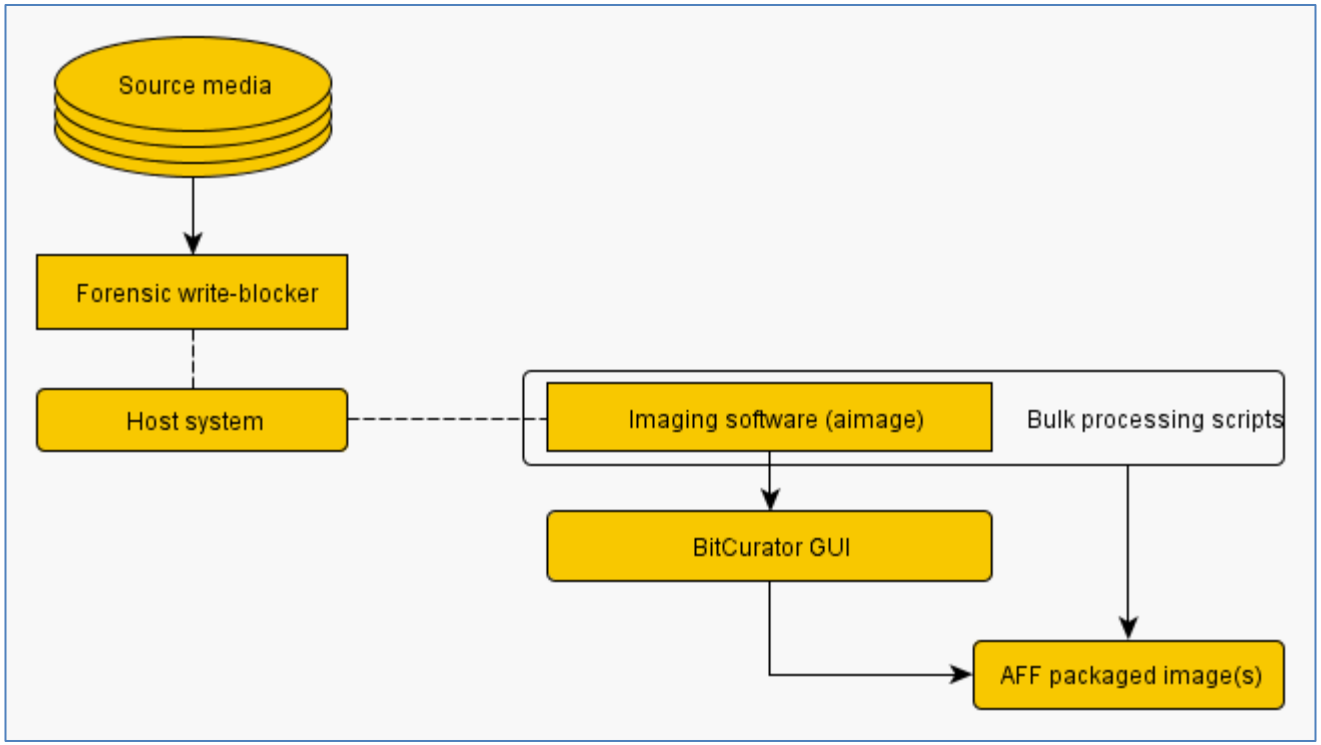
Some ongoing fundamental needs:

- Incorporation into the workflow of archives/library ingest and collection management, e.g. metadata conventions, hooks into existing CMS environments.

- Provision of public access to the data. The typical digital forensics scenario is a criminal investigation in which the public never gets access to the evidence that was seized. By contrast, collecting institutions who are creating disk images face issues of how to provide access to the data. This includes access interface issues, but also how to redact or restrict access to components of the image, based on confidentiality, intellectual property or other sensitivities.

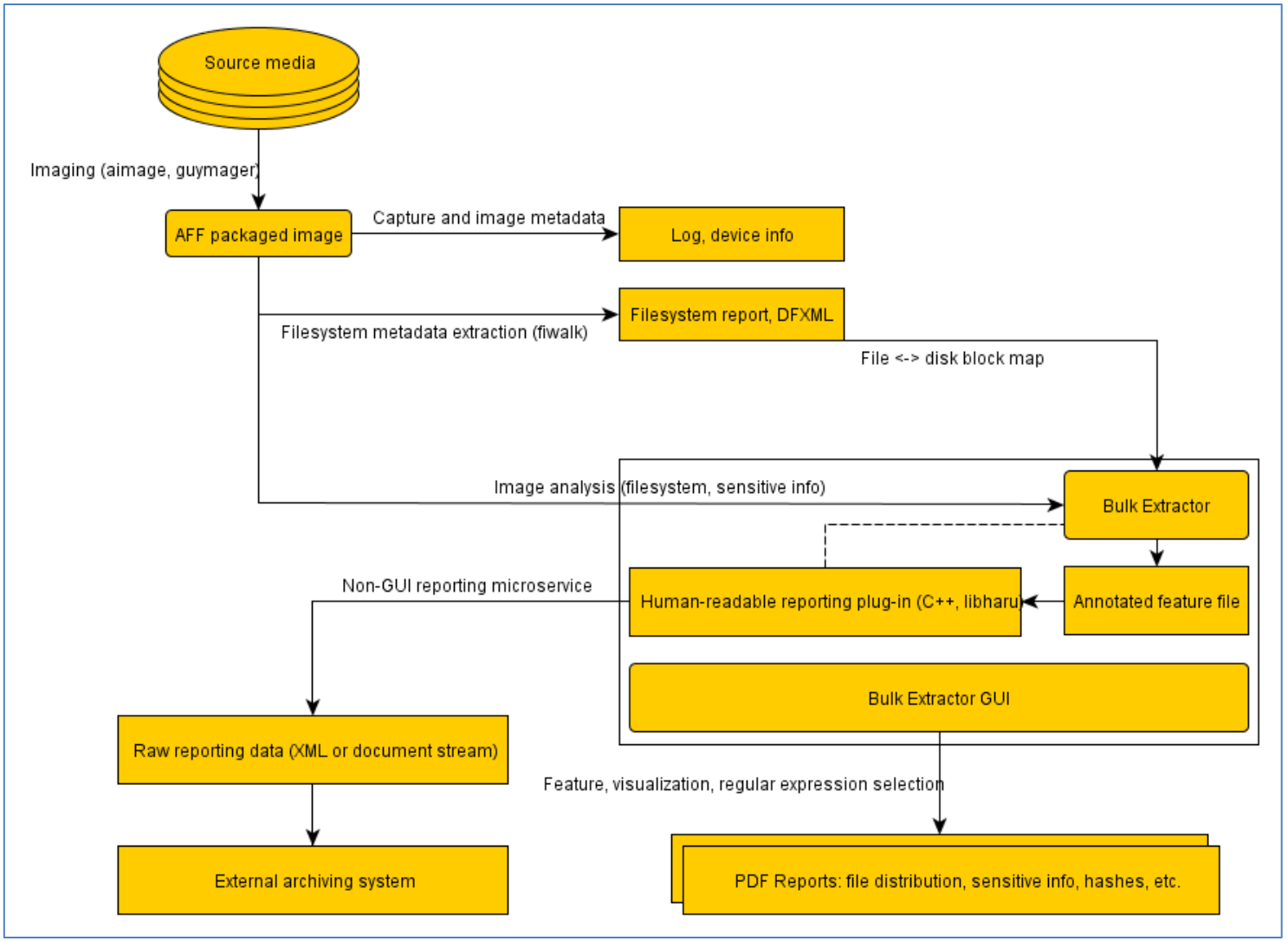
SAVING THE BITS – ALL OF THEM

Safe, accurate disk imaging and image processing metadata creation



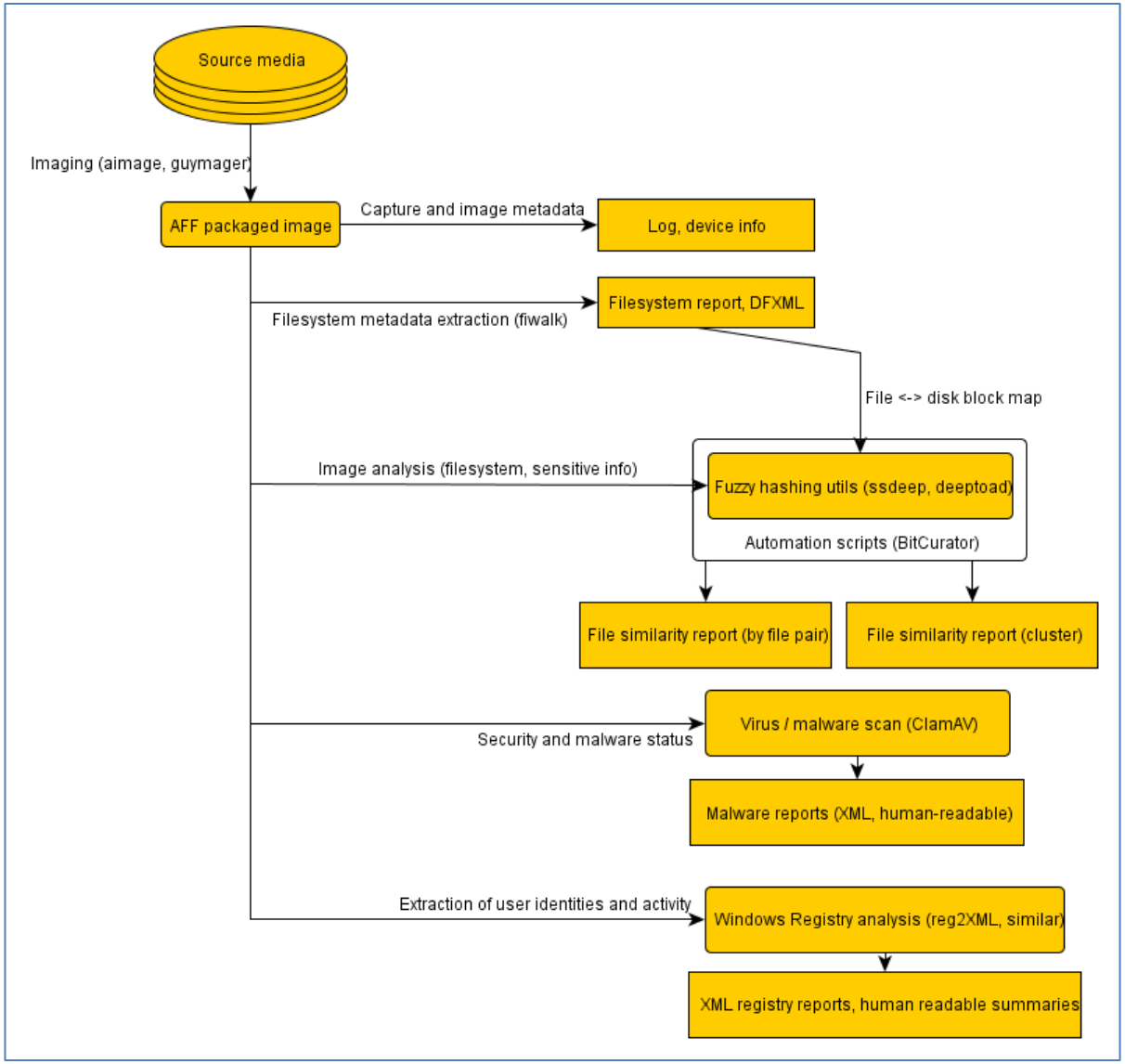
DATA ANALYTICS AND REPORTING

Knowing what you have, finding sensitive info, identifying problem areas



FORENSIC AUGMENTATION OF EXISTING WORKFLOWS

Every workflow has weak spots and compromises. BitCurator will provide forensic software tools that can be deployed independently and as supporting microservices.



WHO AND WHEN

- Funded by Andrew W. Mellon Foundation - October 1, 2011 – September 30, 2013
- Partners: SILS and Maryland Institute for Technology in the Humanities (MITH)
- Core Team:
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  - Matt Kirschenbaum, Co-PI
  - Kam Woods, Technical Led
  - Alex Chassonoff, Project Manager (UNC SILS)
  - Porter Olsen (MITH)

Professional Experts Panel	Development Advisory Group
• Bradley Daigle, University of Virginia Library • Erika Farr, Emory University • Jeremy Leighton John, British Library • Leslie Johnston, Library of Congress • Courtney Mumma, City of Vancouver Archives • Naomi Nelson, Duke University • Erin O'Meara • Michael Olson, Stanford University Libraries • Gabriela Redwine, Harry Ransom Center, University of Texas, Austin • Susan Thomas, Digital Archivist, Bodleian Library, University of Oxford	• Geoffrey Brown, Indiana University • Barbara Guttman, National Institute of Standards and Technology • Jerome McDonough, University of Illinois • Mark Matienzo, Yale University • David Pearson, National Library of Australia • Doug Reside, New York Public Library • Seth Shaw, University Archives, Duke University • William Underwood, Georgia Tech • Peter Van Garderen, Artefactual Systems

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Read our blog, find out more about the project staff, examine FAQs, download software, and more.

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