NIST Big Data Public Working Group

Breakout 2: Use Case & Security and Privacy Discussion Overview

NIST Campus
Gaithersburg, Maryland
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Breakout 2 – Geoffrey Fox

Volume 3, Use Cases and Requirements

- **Additions**
  - More use cases including those in the commercial space
  - Will supply latest Version 2 template in next week. Ask us!!
- **The use cases can help to understand Issues**
  - such as Logically Centralized vs. Explicitly Decentralized data
    - Commercial cloud centralized data
    - Centralized data is powerful but it may not work for some applications due to distributed ownership (e.g., scientific)
  - Pleasingly parallel use cases shown in use cases; implies system architecture
  - Organizational, political challenges with Big Science Big Data adoption
- **Simulations as part of the RA scope?**
  - Use of simulations to model job platform/profiles, may also help in the scale up of SnP solutions

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Breakout 2 – Mark Underwood, Arnab Roy

Volume 4, Security and Privacy

- Possible additional topics
  - Issues with identity management scalability
  - Device registration processes and standardization
  - Issues surrounding system decommissioning were suggested (volume covers life cycle but not much about decommissioning)
  - Service layer added to NBDRA?
  - Key rotation in the discussion of key management
- Consider
  - Health care data provenance
  - Review FIPS 140-2
- No volunteers to draft text from breakout
- Key issues of model based engineering and domain models was neither embraced nor rejected

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