

Secure (Research) Data Desktop

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Secure (Research) Data Desktop

- Secure staging area for enterprise data
 - Access
 - Analysis
- Guiding principles
 - Utility
 - Community
 - Economy
 - Security

Growing Population of Data Requestors



Goals

- Implement data security policies relevant to research data
- Promote good data management practices
- Promote good data analysis practices
- Promote collaborative analysis

- Carrot (rather than stick) approach to adoption

Realities

- There is no one-size-fits-all solution for data
- Specification in development
- Initial funding imminent

- J-CHiP pilot has been well-received, instructive

Virtual Machines - Utility

- Access via thin client/browser
 - State maintenance
 - Rapid deployment
 - Integrated backup
 - Customizable
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- Streamlined data storage approval likely

Virtual Machines - Community

- Shared context
 - Access
 - User experience
 - Applications
- Data sharing with reduced risk
- Multi-level support (IT, biostats, peers)

Virtual Machines - Economy

- Scale to cost ~\$20/month (clinical version ~\$12)
- Convenient
 - Access via thin client/browser
 - State maintenance
- Standardizable

Virtual Machines - Security

- Standardized base configuration
- Software/port controls
- Audit logs

- (Streamlined data storage approval likely)

Use cases – high-level examples

- A post-doc fellow performs a pilot study using JHM Enterprise clinical data
- A trainee analyzes data from a medium-sized formal research study
- A PI is participating in a multi-center study is provided with a large dataset to analyze

Needs

- Use cases for SRDD: highlighting strengths, risks, etc
- Specification of tools: biostatistical, GIS, visualization, reporting, collaboration, etc
- Policies: authorization, authentication, auditing, etc
- Cost recovery?