Why People Like Cloud?

• Globally accessible
• Scalable
  • Illusion of Infinite Resources
• Elastic
  • Scale Up and Down Whenever
• Low cost
  • Pay by the Hour
  • 1K servers x 1 hr == 1 server x 1K hours
• Can be secure
That Makes it Great For:

- Large One-off or Periodic Jobs
  - Like Hadoop/MapReduce
- Startups/Prototyping
- Research at Scale
- Mobile Applications
  - mobile device as UI, compute/store “in the cloud”
- Disaster Recovery
Our Goal

• Provide a structured and standardized solution to manage the educational, administrative and research compute demands campus wide

• Facilitate access to increased (and flexible) storage, server, and capacity for MSU stakeholders
Gartner Magic Quadrant

As of August 2016

LEADERS
Amazon Web Services
Microsoft

CHALLENGERS

LEADERS
Amazon Web Services
Microsoft

Virtustream
Rackspace
CenturyLink
VMware
NTT Communications
Fujitsu
IBM (SoftLayer)

ABILITY TO EXECUTE

COMPLETENESS OF VISION

MICHLIGAN STATE UNIVERSITY
Approach

• Conducted an RFP in March 2016.
• Received responses from 12 suppliers.

<table>
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<tr>
<th>Criteria</th>
<th>DLT (AWS)</th>
<th>Azure</th>
<th>IBM</th>
<th>Heroku</th>
<th>Relus (AWS)</th>
<th>Rackspace</th>
<th>Strategic (AWS)</th>
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What Clouds?

Amazon Web Services

Microsoft Azure
Portfolio Advantages

- **Discounts** on AWS and Azure
- **Flexible** Invoicing
- More Favorable **Contract Terms**
  - FERPA Terms
  - HIPAA Terms
- Optional Support
- Access to Secure Government Cloud
How to Get It?

Service Desk Ticket

SME Evaluation (Phase II)

Issue a PO

Assign Account
<table>
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<tr>
<th>Phase</th>
<th>Ideal Use</th>
<th>Target Release</th>
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<tbody>
<tr>
<td>Phase I: Unmanaged (User accepts all responsibility)</td>
<td>Public Data Development Systems</td>
<td>Piloting now Target mid-June</td>
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<tr>
<td>Phase II: Managed and Unmanaged Environment</td>
<td>Phase I and Confidential Data</td>
<td>TBD</td>
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Questions
SPARTANS WILL.

WE WILL.