Shared Cloud Security Assessments Working Group Update: Cloud Broker Index

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Presenters

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Resources

• HECVAT website:
  – https://library.educause.edu/resources/2016/10/higher-education-cloud-vendor-assessment-tool

• Cloud Broker Index:
  – https://www.ren-isac.net/public-resources/hecvat.html
Agenda

- Background & Overview
- HECVAT Improvement Debrief
- HECVAT Assessment – Automation & Demonstration
- Cloud Broker Index
- Vendor Engagement
- Case Studies
- Call for Participation & Future Efforts
The HECVAT working group is the best!
Phase 3 Contributors

- Jon Allen, Baylor University
- Josh Callahan, Humboldt State University
- Charles Escue, Indiana University
- Jeff Hopkins, Purdue University
- Alex Jalso, West Virginia University
- Amanda Sarratore, Notre Dame
- Gary Taylor, York University
- Gene Willacker, Michigan State University
- David Zeichick, California State University-Chico
- Staff Liaisons from EDUCAUSE, Internet2, and REN-ISAC
  - Valerie Vogel, Nick Lewis, Todd Herring, Kim Milford, Susan Coleman
<table>
<thead>
<tr>
<th>Campuses Using the HECVAT</th>
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<td>Appalachian State University</td>
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<td>Art Institute of Chicago</td>
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<td>Berry College</td>
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<td>Franklin &amp; Marshall College</td>
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<td>Western Michigan University</td>
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<td>Williams College</td>
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What the HECVAT!

- History
- Unique collaboration
- Ongoing Project
Phase 3 Deliverables

- Engage vendors
  - For HECVAT awareness
  - CBI participation
- Automated triage
Updates in the last year

- Updated HECVAT Questionnaire
- Crosswalk Updates
- Cloud Broker Index (CBI)
What the HECVAT!

The project is two years old

A win for schools and vendors

Simplify, Expedite, Improve Assessments
HECVAT Improvement Debrief

Crosswalk
Score
Assess
Report
Standardize
Crosswalk

- Added PCI DSS!
- CIS Critical Controls
- HIPAA
- ISO:27002:2013
- NIST Cybersecurity Framework
- NIST 800-171r1
- NIST 800-53r4
Automated Triage – Live Demo!

- Collecting the data
- Assessing the risk
- Example going through automated scoring
- How to convert and do scoring
- Look on weighted questions
Cloud Broker Index

https://www.ren-isac.net/hecvat/cbi.html
Higher Education Cloud Vendor Assessment Tool (HECVAT): Streamlining Security Risk Review

Five steps to protecting security and privacy in the cloud

"Bench"mark 1
Institution A uses HECVAT responses to ensure its service provider partners are protecting institutional systems and data appropriately.

"Bench"mark 2
Institution A wants to move to the cloud for a new LMS and identifies Wprovided23.com to fulfill that need.

"Bench"mark 3
Institution A checks the Internet2 Cloud Services listings and the REN-ISAC Cloud Broker Index to see if Wprovided23.com has completed a HECVAT questionnaire for its LMS product. It has not.

"Bench"mark 4
During the procurement process, Institution A encourages Wprovided23.com to complete a HECVAT for its LMS product and to list that HECVAT in the REN-ISAC Cloud Broker Index.

"Bench"mark 5
Institution B is looking for a new LMS, sees that Wprovided23.com has a HECVAT listed on the REN-ISAC Cloud Broker Index and contacts Wprovided23.com about its product.

HECVAT Benefits
For Institutions:
- Consistent Security Review Process
- Cost and Resource Savings

For Service Providers:
- Cost and Resource Savings
- Lead Generation

www.educause.edu/hecvat
HECVAT & the CBI

- CBI = Cloud Broker Index
- HECVAT Phase 2
- Convenience
- Single source
- Balance accessibility with privacy
Service Providers Using HECVAT

10 Service Providers with 15 HECVATs!

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Product Assessed</th>
<th>Date of Assessment</th>
<th>Vendor Site</th>
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HECVAT & the CBI

- REN-ISAC proactively reach out to vendors
- Universities working with certain vendors provide facilitation
  - Please send vendors to us!
  - hecvat@ren-isac.net
  - We can provide scripted outreach as needed
- Vendors come to REN-ISAC requesting participation
Cloud Broker Index (CBI)

Public: *Hosted and linked on REN-ISAC web site*
- Vendor sends completed assessment to HECVAT@REN-ISAC.net

Public2: *Vendor hosts, REN-ISAC links*
- Vendor sends the link to completed questionnaire

Semi-public: *Vendor hosts, REN-ISAC links*
- Vendor hosts behind paywall, sends the link and information

Private: *Vendor controls, REN-ISAC links*
- Vendor keep private, send instructions on how people can request
Vendor Partner Value

- Shows engagement in the procurement conversation
- Reduce redundant use or staff
- Increase quality of assessments
- Differentiation in the marketplace
- Being seen as engaged with the community
- Getting contacts at potential customers
Indiana University
Case Study
The early years of assessment were primarily performed ad-hoc

Third-party Security Assessment (3PA) request came in

An engineer or analyst would assess per individuals strengths

Depth of assessment and reporting style varied greatly

Original safeguard questionnaire(s) had a technical focus

Our old ways couldn’t keep up with the new reality
We moved away from pure technical to include strategy and business operations

- Needed a way to assess RFP responses more efficiently
- The needs of our data stewards grew with service adoption and with it, our process

RFP
Cloud
Dept.

Community
Security Office
Data Stewards
Protect Data!
After adopting the HECVAT, IU prioritized risk assessment process improvements.
The HECVAT elevates our leaders confidence and improves collaboration
California State University
Case Study
How We Got Here

The Problem

The 23 campuses in the system and our Chancellor’s Office have widely varying IT procurement processes. Additionally, we often use different definitions.

The Goal

We set out to develop a common vendor assessment process that produces a risk ranking. This would allow subsequent campuses to review that score and decide if the solution falls within their risk appetite.

That led us to a common set of procurement forms and to standardize on asking for the HECVAT.
Let’s Play 300 Questions!

One challenge was the length, both filling out and reading – could we automate the scoring?

We started with a separate scoring spreadsheet that could read a filled HECVAT and produce some numerical scoring and
Call to Community

- Commit to HECVAT
- Allow referencing
- Educate Vendors
- Give feedback
Future Direction

Phase 4 - 2019

Brainstorm on ideas for the next phase

Engage with existing working group members and new members to develop workplan.

We want your input!
Feedback and Questions

Survey:
https://www.surveymonkey.com/r/6LMNFZL
Please take a moment to evaluate this session

There are two ways to access the session and presenter evaluations

1. In the online agenda, click on the “Evaluate Session” link

2. From the mobile app, click on the session you want from the schedule > then click the associated resources > and the evaluation will pop up in the list