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An Update on Shared Cloud Security Assessments (HECVAT) WG and NET+ Cloud Services Program
PRESENTED BY: Nick Lewis, Internet2 NET+ Program Manager, Security and Identity

Please ask questions!

Agenda

1. Update on the Shared Cloud Security Assessments (HECVAT) Working Group
2. Internet2 NET+ Cloud Services Program
3. Cloud Services Security and Identity Portfolio
4. Questions

Higher Education Cloud Vendor Assessment Tool

Assessing security and privacy risks in third party services

REN-ISAC

INTERNET₂

EDUCAUSE

HECVAT INSTITUTIONS ROCK!

Project Inspiration

- Campuses are rapidly adopting cloud services and deploying software systems
- Assessing the risk for cloud services and software systems as quickly as possible
- Developing vendor risk management programs
- Developing enterprise risk management programs
- Evolving information security programs as quickly as possible
- Too much to do to effectively do it all!

The Job to Be Done

- How to as easily and quickly as reasonably possible share work done at one campus with other campuses
- Freeing up time & resources to dedicate back to critical information security functions
- Create a forum/space to share and find existing shared assessments
- Build on the existing higher education information security community sharing
- Ease vendor burden in responding to security and privacy product assessment requests
  This is a big project--so it was divided into phases.

- Jon Allen, Baylor University
- John Bruggeman, Hebrew Union College, Jewish Institute of Religion
- Charles Escue, Indiana University
- Karl Hassler, University of Delaware
- Craig Munson, Minnesota State Colleges & Universities
- Mitch Parks, University of Idaho
- Laura Raderman, Carnegie Mellon University
- Sandy Silk, Harvard University
- Staff Liaisons from EDUCAUSE, Internet2, and REN-ISAC
  - Joanna Grama
  - Valerie Vogel
  - Nick Lewis
  - Todd Herring
  - Kim Milford

Phase I contributors

Phase I Deliverable

- Create a cloud services assessment questionnaire/template that can be used to surface a short executive summary for review & sharing.
- Collaboration between Internet2, EDUCAUSE, REN-ISAC and its members.

The Higher Education Cloud Vendor Assessment Tool ("*HECVAT" if you are cool*), was published October 2016.

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

- Jon Allen, Baylor University

- Matthew Dalton, University of Massachusetts Amherst

- Charles Escue, Indiana University

- Kolin Hodgson, Notre Dame University

- Tom Horton, Cornell University

- Leo Howell, North Carolina State University

- Alex Jalso, West Virginia University

- Wyman Miles, Cornell University

- Staff Liaisons from EDUCAUSE, Internet2, and REN-ISAC
    - Joanna Grama
    - Valerie Vogel
    - Nick Lewis
    - Todd Herring
    - Kim Milford

Phase II contributors

Phase II

- Phase II started in March 2017
- Deliverables include:
  - Feedback Gathering
  - HECVAT Lite
  - Crosswalk to standards
  - Vendor expectations paper
  - Sharing expectation paper
  - Sharing infrastructure/proof of concept

Deliverable: Feedback Gathering

- One of the most important Phase II deliverables
- We would like to know:
  - Who is using the HECVAT?
  - What was the experience (the good, the bad, and the ugly)?
  - Was the tool useful?
  - What was the vendor reaction?
  - Did the vendor allow sharing?
  - Suggested improvements?
  - Gather testimonials
- If you have used the HECVAT, please take our survey!
- And, share the survey link with others!

  https://www.surveymonkey.com/r/PQSLMBK
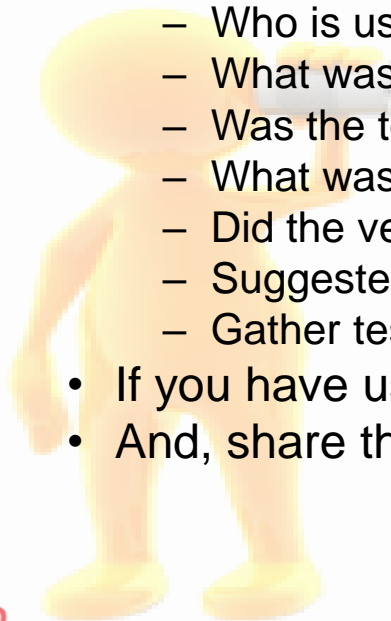
HECVAT and How We [want to] Share It

- By completing the Higher Education Cloud Vendor Assessment Tool, cloud service providers understand that the completed assessment may be shared among higher education institutions.

- Four Tiers of Sharing

    - Assessment template and discussion regarding the assessment process

    - List of service providers assessed and contact information of service providers

    - Completed assessment (vendor answers intact)

    - Security report created by this Higher Education institution

Deliverable: HECVAT Lite

- The HECVAT is a mere 284 questions
  - This includes qualifying questions for HIPAA and PCI opt-in
- The HECVAT Lite project is to create a very lightweight version of the HECVAT for use in special situations
  - Short on time? Short on personnel to review? Short on budget? Short on risk?
- Current "lite" version is 57 questions; hope to pare it down more
- Available at:
  - https://library.educause.edu/~/media/files/library/2017/5/higheredcloudvendorassesstoollite.xlsx

Deliverable: Crosswalk to Standards

- Understanding how HECVAT questions compare to industry standards is useful
- Did we mention, 284 questions? That is a lot to crosswalk.
- For the next HECVAT revision, we plan to crosswalk to as many standards, at a high level, as possible.
- Currently we are reviewing, ISO 27002:2013; NIST SP 800-53 Controls; NIST SP 800-171 Controls; NIST Cybersecurity Framework; CIS 20 Critical Security Controls (ver 6.1); HIPAA Security Regs; PCI DSS Regs

Deliverable: Vendor Expectations Paper

- Do vendors *really know* what higher ed wants with respect to security/privacy information for their products/services?
- The goal of this *very short* paper (or blog post) is to provide concrete advice to vendors about the types of information and documentation we expect from them
- Other possible items to address:
  - Can we specify that our expectation is that vendors in the our industry will use the HECVAT (e.g., like the InCommon Federation for authentication)
  - Can we also make the case for the HECVAT? (A vendor is completing one assessment, not many, for higher education institutions)
  - How the tool or service usage could vary institution by use case and the security requirements might be different

Deliverable: Sharing Infrastructure

- Assumption: We want to be good sharers; sharing is caring.
- What does a sharing infrastructure look like?
  - Are we sharing completed HECVATs <u>or</u> are we sharing an institution's assessment of a particular vendor/service
  - What about metadata?
  - Who runs the infrastructure?
- Desired end state vs. realistic sharing
  - What is the minimum viable product w/r/t sharing?
- Addresses the barriers to sharing
  - Materials can't be under NDA (barrier to sharing)
  - Vendor consent
  - Trusted infrastructure
  - Something new developed by the community, or a commercial tool?

Phase III

- Phase III starting in November 2017
- Deliverables include:
    - Vendor expectations paper?
    - Vendor engagement?
    - Sharing expectation paper?
    - Sharing infrastructure/proof of concept?
    - HECVAT Dashboard?

    - Open to suggestions!

WE WANT YOU!

Questions for You

- Have you used the HECVAT? Take our survey and share your feedback please! https://www.surveymonkey.com/r/PQSLMBK
- What are your reactions?
- Do you know of other organizations doing something similar that we can talk with?
- What is your highest priority in terms of the HECVAT deliverables we discussed?

Internet2 Cloud Services Program Update

Internet2 Services Hub and Cloudmore

- GOALS:
  - Enable cohesive cloud service administration, procurement, and orchestration for campuses
  - Enable enhanced community collaboration around cloud service evaluation and validation

Internet2 Services Hub and Cloudmore

- PROGRESS:
  - Community RFI in 2016
  - Proposals evaluated by committee of campuses (Notre Dame, Caltech, University of Chicago)
  - Cloudmore selected as willing proposal
  - Pilot begins at end of 2016 with group of campuses (Baylor, **Boston University**, Case Western Reserve University, University of Florida, University of Washington)

Internet2 Services Hub and Cloudmore

- NEXT STEPS:
  - Pilot of Cloudmore platform for campus implementation
  - Expanded pilot of Cloudmore platform for community use as Internet2 Services Hub

Security Improvements Underway

- Lifecycle improvements
- Service Advisory Board security reviews
- Hub for sharing more security information
- Including HECVAT in NET+
- Communicating security information we do have

Cloud Services – Security and Identity Portfolio

Update on the NET+ Splunk Program

- New agreement in development
- Adding ESA, ITSM, other products to program
- Adding a distributor and reseller to program to keep aligned with Splunk and provide additional options to campuses.
- Final agreement for review to be send to service validation campuses by end of the month
- New campus sign-ups starting Sept/Oct

Update on the NET+ Duo Program

- New agreement in development more closely aligned with standard NET+ terms
- Final agreement for review to be send to service validation campuses by end of the month
- Campus sign-ups for new agreement starting Sept/Oct. Can sign-up now under existing agreement.

Future Services in Development

- Future services with Cisco like Umbrella (was OpenDNS), non-security services, etc
- SOC/MSSP
- Cloudflare
- Prevalent
- Google GCP
- Tenable
- Several provisional in pipeline

Cloud Security Working Group

- More focused Cloud Security working group
- How Cloud security works into your overall information security program
- Details on specific services and platforms
- Would this be of interest?
- Working group meeting at TechEx to start discussing

Questions?

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- Any other questions?
- Any suggestions for improvements?

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