VIRGINIA IT AGENCY

Welcome to the Aug. 7, 2024 ISOAG Meeting

Information Security Officer's Advisory Group

August 7, 2024

VIRGINIA IT AGENCY

Agenda	Presenter
Welcome/Opening Remarks	Kendra Burgess/ VITA
AWS Training Courses	Chris Williams/ VITA
Google Chrome Entrust Mistrust – CoV Impact	John Del Grosso/ VITA
Update from MSI's new VITA Account Manager	Darrell Raymond/ SAIC
Web Modernization – Training Opportunities	Joshua Jones/ VITA
Announcements and Upcoming Events	Kendra Burgess/ VITA
Adjourn	

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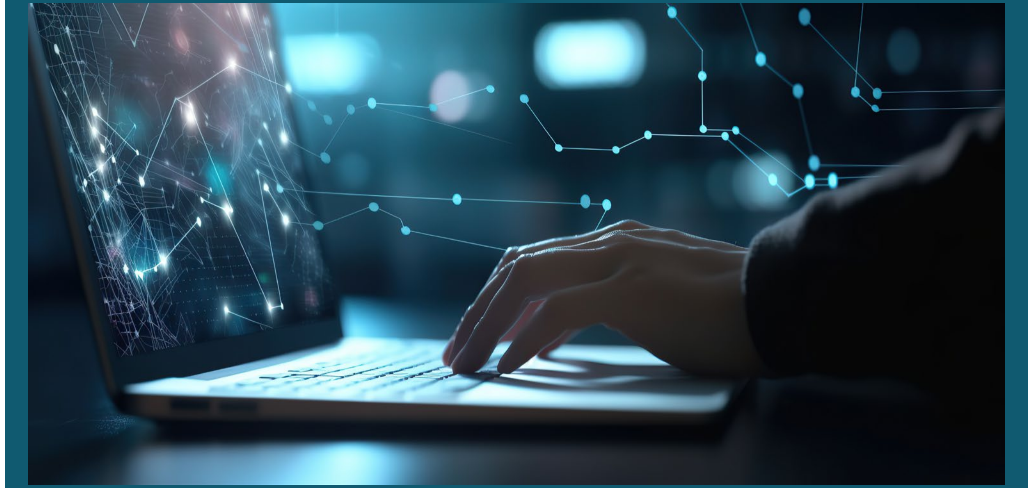
CrowdStrike

Amy Braden

Director, Security Governance



August 7, 2024

Chris Williams

VITA Cloud Services Manager

Amazon Web Services (AWS) training days

These training sessions build upon each other and provide information on AWS Cloud Services. Registration is required for each session. Past presentation are included on the VITA Knowledge base here.

Register	AWS: Types of databases	Teams meeting	August 08, 2024	1:00 PM
Register	Oracle and Microsoft on AWS	Teams meeting	August 22, 2024	1:00 PM
Register	AWS: File Systems and Storage	Teams meeting	September 19, 2024	1:00 PM
Register	AWS: Monitoring and Tools	Teams meeting	October 31, 2024	1:00 PM
Register	AWS: Networking - Session 1	Teams meeting	November 14, 2024	1:00 PM

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Google Chrome browser Entrust Distrust

VITA Review and Go-Forward for COV Servers

John C Del Grosso
VITA SSDC Service Owner

July 23, 2024

Google distrust of Entrust certificates starting Oct. 31

Google Chrome will no longer support Entrust certificates installed *after* Oct. 31 **AND** those installed before Oct. 31 that *do not* meet the Entrust root certification authority Signed Certificate Timestamp (SCT).

COV has used Entrust as the primary vendor for all certificates for many years.

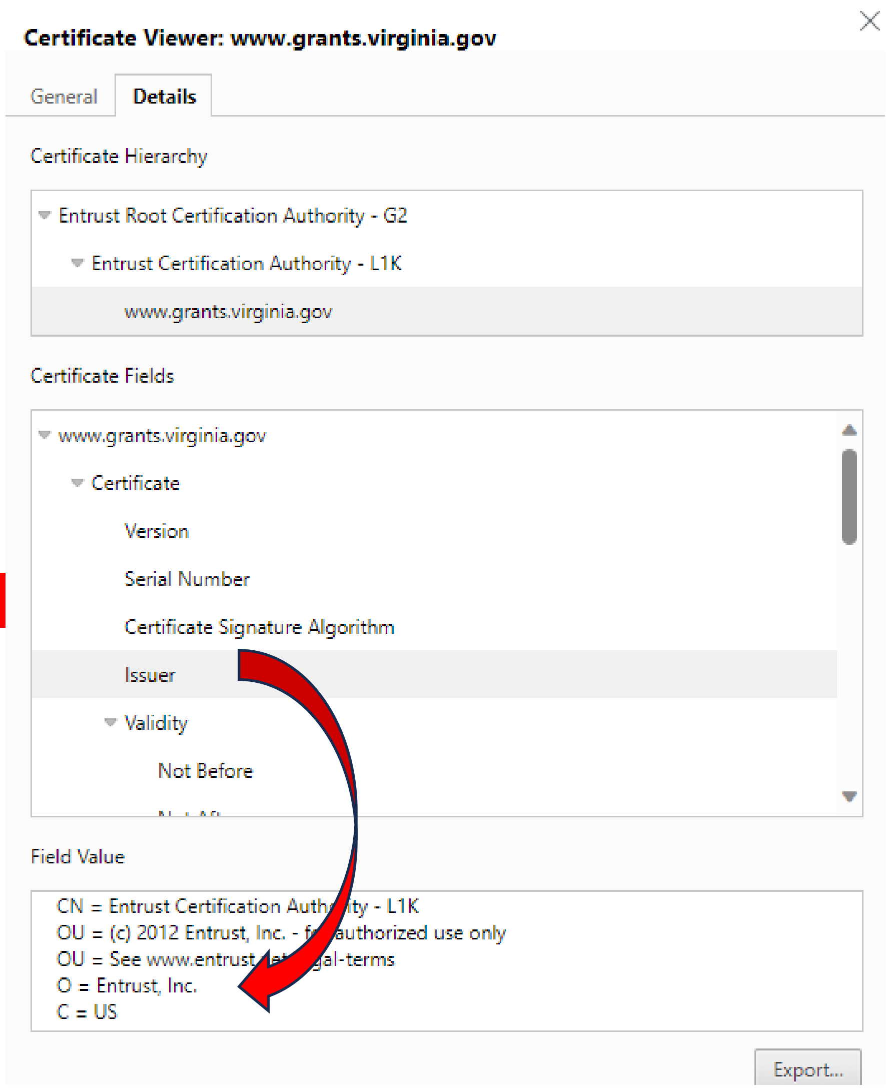
778 active certificates impacting 52 agencies

Please see the Entrust webpage for additional detail: [TLS Certificate Information Center | TLS Support | Entrust]()

Criteria #1 – ‘Issued By’ Attribute

The “Organization (O)” field listed beneath the “Issued By" heading does not contain “Entrust" or “AffirmTrust”.

- **Website owner action not required**, if the “Organization (O)” field listed beneath the “Issued By” heading does not contain “Entrust” or “AffirmTrust”.
- **Website owner action is required**, If the “Organization (O)” field listed beneath the “Issued By” heading contains “Entrust” or “AffirmTrust”.



Certificate Viewer: www.grants.virginia.gov

Certificate Hierarchy

- Entrust Root Certification Authority - G2
  - Entrust Certification Authority - L1K
    - www.grants.virginia.gov

Certificate Fields

- www.grants.virginia.gov
  - Certificate
    - Version
    - Serial Number
    - Certificate Signature Algorithm
    - Issuer
    - Validity
      - Not Before
      - Not After

Field Value

```
CN = Entrust Certification Authority - L1K
OU = (c) 2012 Entrust, Inc. - for authorized use only
OU = See www.entrust.net/legal-terms
O = Entrust, Inc.
C = US
```

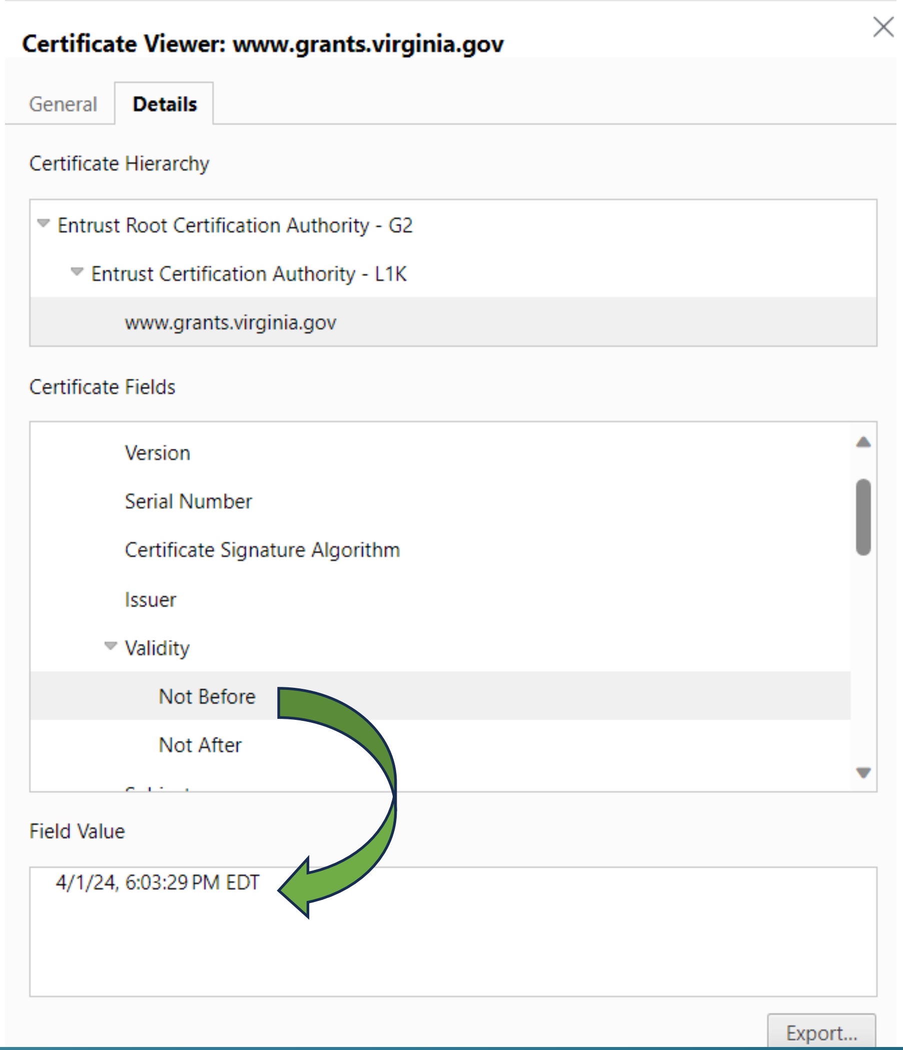
COV: All Entrust certificates do not meet the “Issued-by” test.

Criteria #2: ‘Start Date’ Attribute

TLS server authentication certificates validating to roots whose earliest SCT is on or before Oct. 31, will be unaffected by this change.

- **Website owner action not required**, if the ‘Not Before’ (installation date) is dated before October 31, 2024.
- **Website owner action is required**, if the ‘Not Before’ (installation date) is after Oct. 31.

COV: All Entrust certificates does meet the “Start Date” test.



Certificate Viewer: www.grants.virginia.gov

General | Details

Certificate Hierarchy

- Entrust Root Certification Authority - G2
  - Entrust Certification Authority - L1K
    - www.grants.virginia.gov

Certificate Fields

- Version
- Serial Number
- Certificate Signature Algorithm
- Issuer
- Validity
  - Not Before
  - Not After

Field Value

4/1/24, 6:03:29 PM EDT

As such, the change does not adversely affect VITA, agencies, or Customers, satisfying Criteria 2: Issue/Install Date

All existing Entrust certs will operate without affect to users or systems past Oct. 31 until expiration

- In progress: A new certificate authority will be contracted to replace Entrust by the end of August
- Entrust certificates will be removed/replaced from environment as they expire over the next year starting when the new certificate authority (CA) is on-boarded (September)

NOTE: In the event Google Chrome reverses it decision before Oct. 31, VITA and suppliers will re-evaluate the effort to replace Entrust, although, by September a new CA will have been contracted.

Immediate and Long-Term Planning

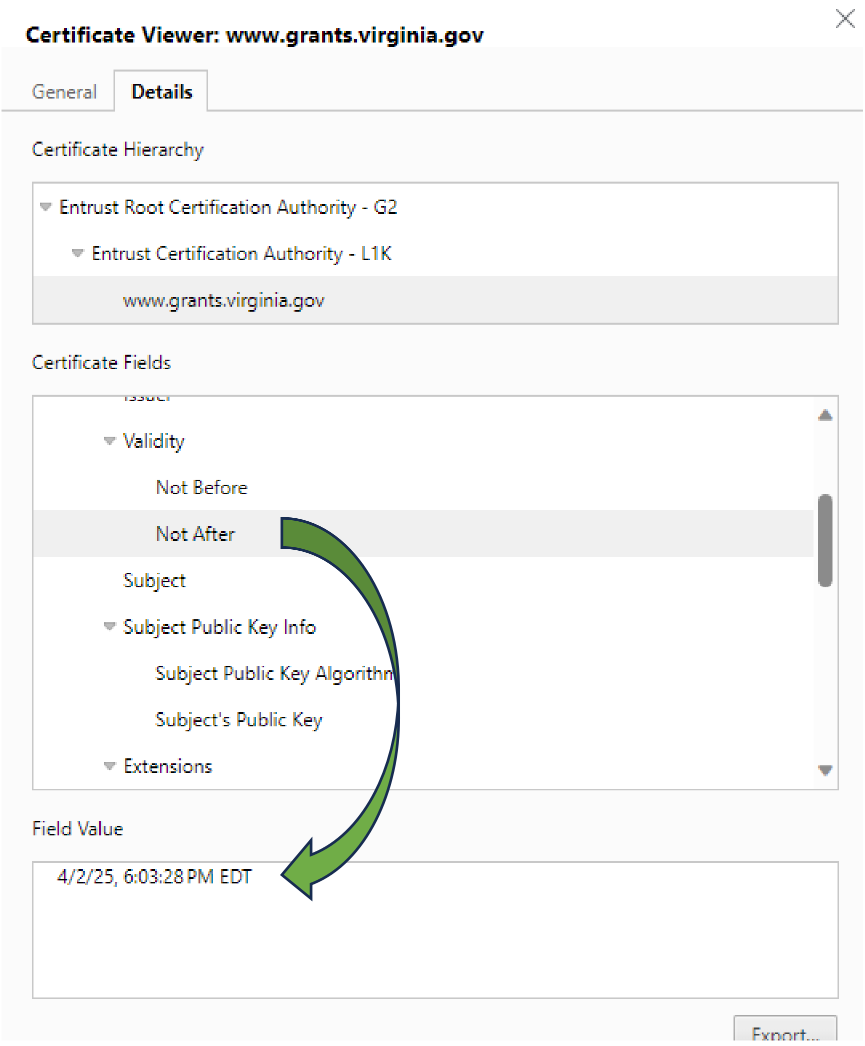
- Immediate goal: Replace Entrust with a new certificate authority by the end of August, start using new CA before October for new/replacement certs.
  - Entrust certificates will be removed/replaced from environment as they expire over the next year starting when the new CA is on-boarded (September)
- Long-term goal: An end-to-end full service CA that utilizes automation, notification, and business processes built-in for true modernized certificate management by end-of-year.

NOTE: In the event Google Chrome reverses it decision before Oct 31, VITA and suppliers will re-evaluate the effort to replace Entrust, although, by September a new CA will have been contracted.

Entrust to be replaced at Certificate ‘Expiration’

All remaining Entrust certificates will be replaced by the expiration date with a new TBD certificate authority.

Shown as the “Not After” attribute, as shown.



Certificate Viewer: www.grants.virginia.gov

Certificate Hierarchy

- Entrust Root Certification Authority - G2
  - Entrust Certification Authority - L1K
    - www.grants.virginia.gov

Certificate Fields

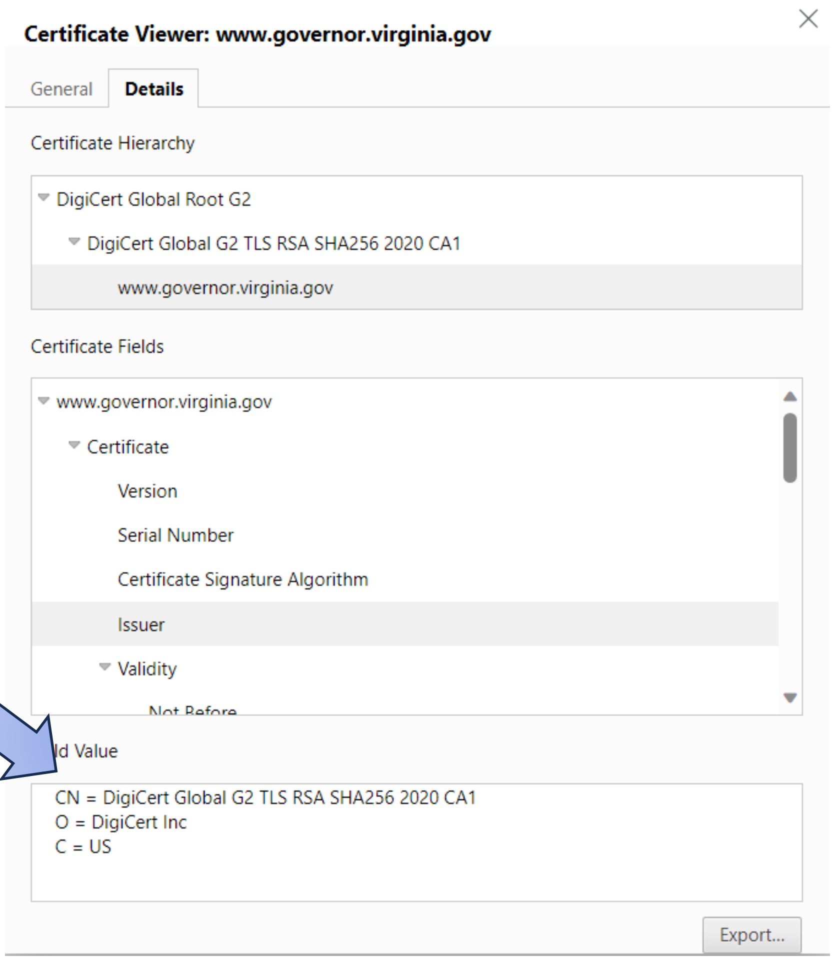
- Issuer
- Validity
  - Not Before
  - Not After
- Subject
- Subject Public Key Info
  - Subject Public Key Algorithm
  - Subject's Public Key
- Extensions

Field Value

4/2/25, 6:03:28 PM EDT

Certificate attribute changes with new authority vendor

The Issuer will show a new CA vendor (TBD).



Certificate Viewer: www.governor.virginia.gov

General | **Details**

Certificate Hierarchy

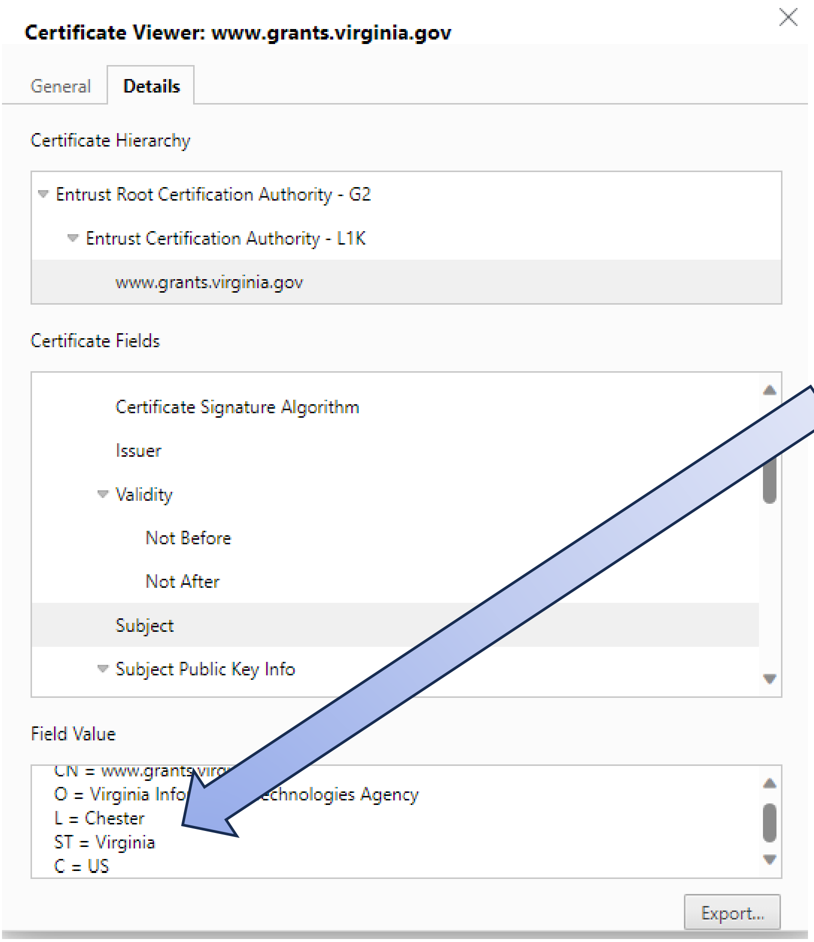
- DigiCert Global Root G2
  - DigiCert Global G2 TLS RSA SHA256 2020 CA1
    - www.governor.virginia.gov

Certificate Fields

- www.governor.virginia.gov
  - Certificate
    - Version
    - Serial Number
    - Certificate Signature Algorithm
    - Issuer
    - Validity
      - Not Before

ld Value

CN = DigiCert Global G2 TLS RSA SHA256 2020 CA1
O = DigiCert Inc
C = US



Certificate Viewer: www.grants.virginia.gov

General | **Details**

Certificate Hierarchy

- Entrust Root Certification Authority - G2
  - Entrust Certification Authority - L1K
    - www.grants.virginia.gov

Certificate Fields

- Certificate Signature Algorithm
- Issuer
- Validity
  - Not Before
  - Not After
- Subject
- Subject Public Key Info

Field Value

CN = www.grants.virg
O = Virginia Info echnologies Agency
L = Chester
ST = Virginia
C = US

The (L) attribute will be changed from ‘Chester’ to ‘Sandston’ to reflect the new datacenter location (CESC to QTS-Sandston)

SEC530 Guidance, Standards and Requirements

SC-17 PUBLIC KEY INFRASTRUCTURE CERTIFICATES

Control:

a. Issue public key certificates under an approved organization-defined certificate policy or obtain public key certificates from an approved service provider; and

b. Include only approved trust anchors in trust stores or certificate stores managed by the organization.

Discussion: Public key infrastructure (PKI) certificates are certificates with visibility external to organizational systems and certificates related to the internal operations of systems, such as application-specific time services. In cryptographic systems with a hierarchical structure, a trust anchor is an authoritative source (i.e., a certificate authority) for which trust is assumed and not derived. A root certificate for a PKI system is an example of a trust anchor. A trust store or certificate store maintains a list of trusted root certificates.

Related Controls: AU-10, IA-5, SC-12.

Control Enhancements: None.

Questions?
Thank you!

SAIC®

Darrell Raymond | SAIC
Account Manager | VITA Program

Darrell.E.Raymond@saic.com

SAIC | Welcome to SAIC

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Web Modernization Training Opportunities

Josh Jones, Program Lead

ISO Advisory Group
August 07, 2024 meeting

Overview

VITA Governance and Support

- Web System Standard first released in February 2023, updated to align with ADA Title II Final Rule in May 2024.
- Created weekly office hours with the Threat Management team that are still well attended.
- Monthly training provided on various accessibility and user experience topics.

Success Stories

- Agency backlog of public website vulnerabilities decreased by over 80%.
- Agency compliance with accessibility standards increased from 44% to over 88%.
- A Commonwealth Branding Bar was created and deployed to 100% of agency main websites.
- Won StateScoop 50 award for State IT Innovation of the Year 2024.

Looking Ahead

Title II of the Americans with Disabilities Act (ADA)

- Entities subject to Title II will be required to conform their digital content to the WCAG 2.1 Level AA, a set of guidelines and criteria for making web content more accessible to a wider range of people with disabilities.
- A public entity with a total population of 50,000 or more shall begin complying with this rule **April 24, 2026.**

Agency Impact / Risk Management

- Regulatory Risk – majority of websites do not meet WCAG 2.1 standard.
- Financial Risk – over 4000 accessibility lawsuits filed each year, most aimed at e-Commerce sites.
- Reputation Risk – as of 2022, almost 2 million adults in Virginia (29%) had a disability. Is your website effective for everyone?

Accessibility Training

VITA-led Training

- Monthly webinars with a focus on specific topics
  - Join us on August 28 at 10am for 'Why Accessibility is Important' (MEETING LINK)
  - Sign up for future events here: https://events.vita.virginia.gov/chooseSession?MeetingID=160
    - September 25 – How to Read and Use Google Analytics to Improve Your Content
    - October 30 – Section 508 Compliance
- UX & Accessibility Power Hours
  - Retooling Office Hours to focus on specific topics
  - Join us on August 14 at 10am for a discussion on User Research (MEETING LINK)
- https://www.developer.virginia.gov/training/
  - Previous webinars, along with PowerPoint slides and job aides

Accessibility Training

Siteimprove Frontier

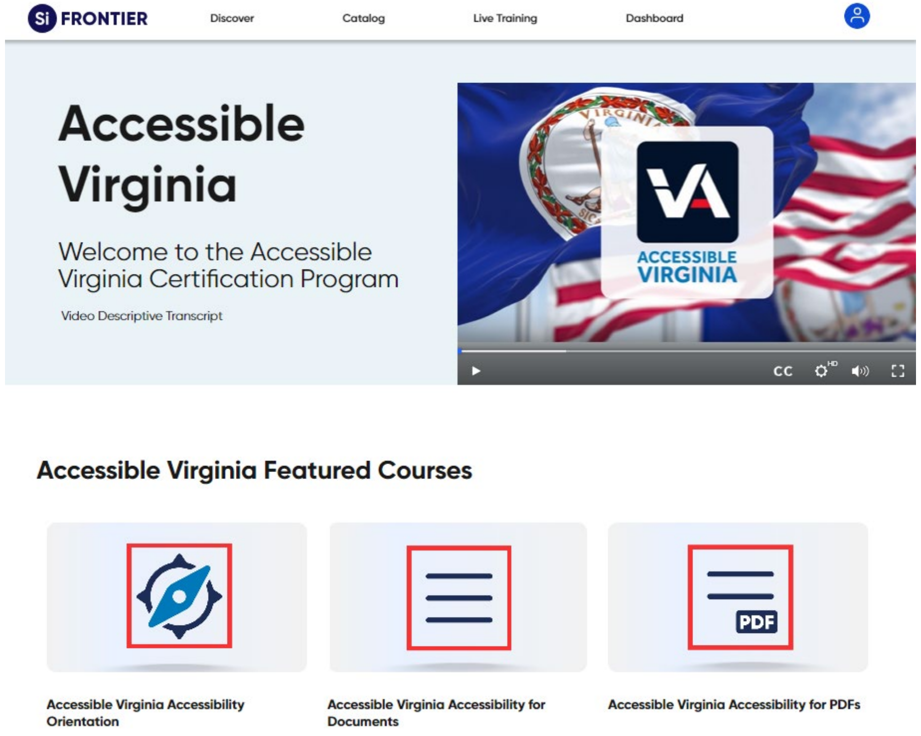
- Accessible Virginia – custom training program with certification paths, individual courses, and job aides.

Accessible Virginia Developer Certification

Accessible Virginia Designer Certification

Accessible Virginia Content Contributor Certification

On-the-Job Handbook



Accessible Virginia

Welcome to the Accessible Virginia Certification Program

Video Descriptive Transcript

Accessible Virginia Featured Courses

Accessible Virginia Accessibility Orientation

Accessible Virginia Accessibility for Documents

Accessible Virginia Accessibility for PDFs

Questions

???

Announcements

ISOAG August 7, 2024

- SPLUNK UPDATE August 2024

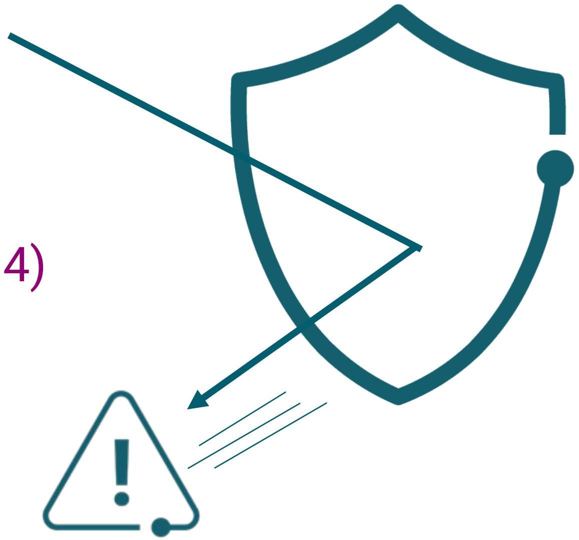
WE WANT YOUR LOGS:

VITA is starting to work with agencies to ingest their application logs in to the VITA Splunk instance. We ask that all agencies start identifying what logs you would like to have ingested. We are always happy to schedule a call to review your options.

5 Key Vulnerabilities

For the Month of August, the Top 5 Key Vulnerabilities are:

- KB5037771: Windows 11 version 22H2/ Windows 11 version 23H2 Security Update (May 2024)
- Microsoft Edge (Chromium) < 124.0.2478.109 Multiple Vulnerabilities
- Google Chrome < 125.0.6422.112 Vulnerability
- Adobe Acrobat < 20.005.30524 /23.006.20320 Vulnerability ((APSB23-34)
- KB5037770: Windows 11 version 21H2 Security Update (May 2024)



Upcoming Events

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vita.virginia.gov

Commonwealth of Virginia Information Security Conference 2024

Join us for the COV IS Conference 2024

Titled: "The Art of Cyber War"

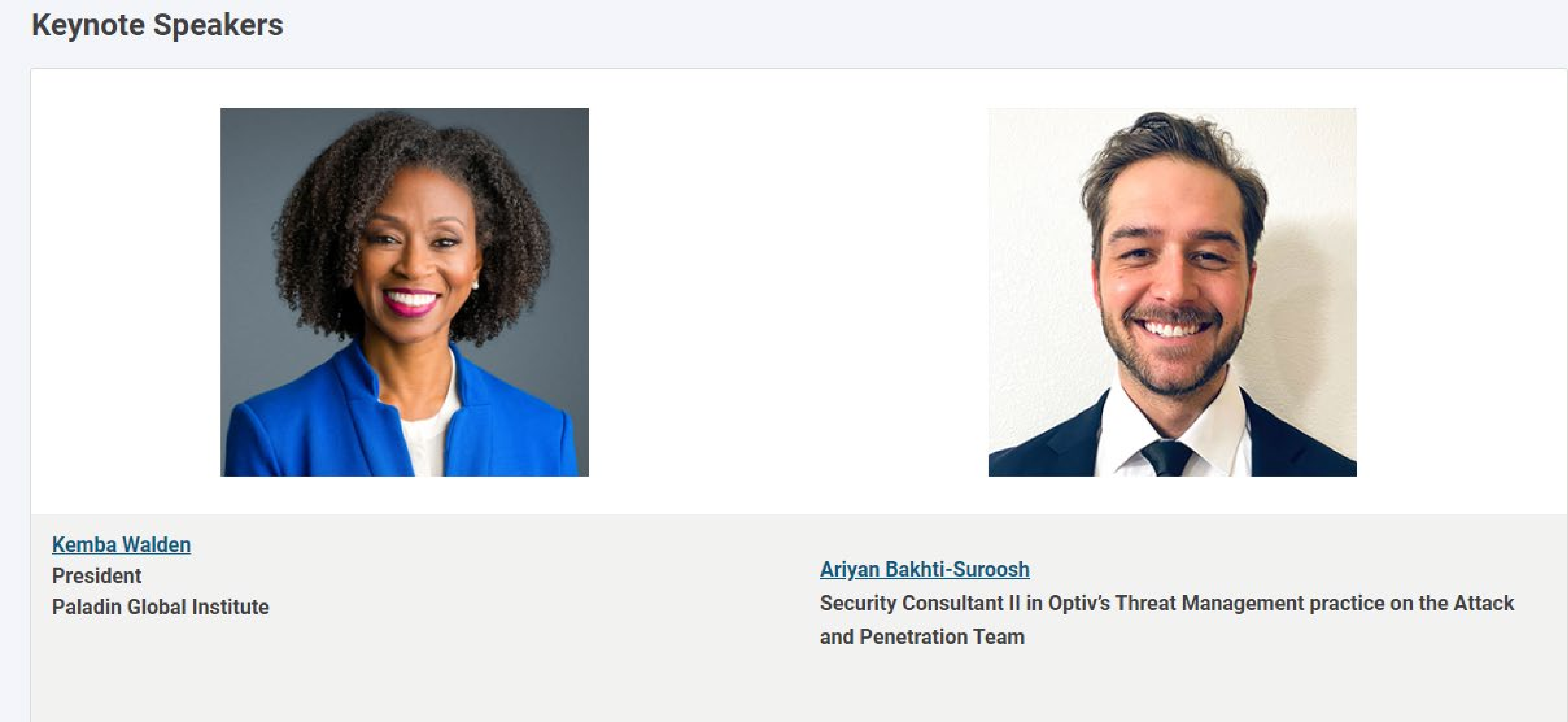
- August 15, 2024, at the Hilton Richmond Hotel and Spa located at Short Pump:

  12042 West Broad Street,
  Richmond, VA 23233

Register at:

https://www.vita.virginia.gov/information-security/security-conference/

COV IS Conference Speakers



Keynote Speakers

Kemba Walden
President
Paladin Global Institute

Ariyan Bakhti-Suroosh
Security Consultant II in Optiv's Threat Management practice on the Attack and Penetration Team

COV IS Conference Speakers

- ○ Great presentations and networking with your peers
- ○ Leadership and technical tracks
- ○ VITA informational sessions where you can meet and interact with representatives from CSRM
- ○ Meet and greet the COV Conference Suppliers/Vendors
- ○ Hands on Lock picking fun

To view the conference program:
https://www.vita.virginia.gov/information-security/security-conference/conference-program/
Subject to Change

Upcoming Tabletop Exercise and Disaster Recovery Exercise Dates

In August there are two exercises to be aware of:

- August 8th, 2024: Tabletop Exercise from 9 am – 3- pm

  (the Hot Wash for the Tabletop is on August 9th, 2024 11 am – 12 pm)

  email MSI-Security-Operations@saic.com with any questions.

- August 12-16, 2024: the Disaster Recovery Exercise

  For more information, please refer to the Disaster Recovery FAQs. If you have any questions, please contact your business relationship manager.

Security Services Fair

August 20th we will have a Centralized Information Security Services Fair

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Services Fair

August 20 - Boulders training room

Address: 7325 Beaufont Springs Drive, Richmond, VA 23225

Acunetix 360 Lunch & Learn

Join us at the Boulders on August 29th.

Training is onsite only and space is limited. First come first served.

Register at https://forms.office.com/g/Baku6kYb4f

Join us for the first Acunetix 360 lunch and learn happening in August. We plan to cover major use cases and settings to ensure you get the highest quality scans and insights into your applications. Topics for the first lunch and learn include:

- How to configure a scan.
- How to create an authenticated scan.
- Scan scoping.
- Retesting for remediation.
- Understanding the resources Acunetix provides to help with remediation.

Splunk Lunch & Learn – Investigating with Splunk

Join us at the Boulders on September 5th.

Training is onsite only and space is limited. First come first served.

Register at https://forms.office.com/g/WmNiWQc1Dt

Investigating with Splunk is a modular, hands-on workshop designed to familiarize participants with how to investigate incidents using Splunk and open source. This workshop provides users a way to gain experience searching in Splunk to answer specific questions related to an investigation. These questions are similar to what would be asked in their own organizations. The workshop leverages the popular Boss of the SOC (BOTS) dataset in a question and answer format. Users will leave with a better understanding of how Splunk can be used to investigate in their enterprise.

COVITS

Save the Date!

September 11 / Richmond, VA

2024

COVITS

[Registration link.]

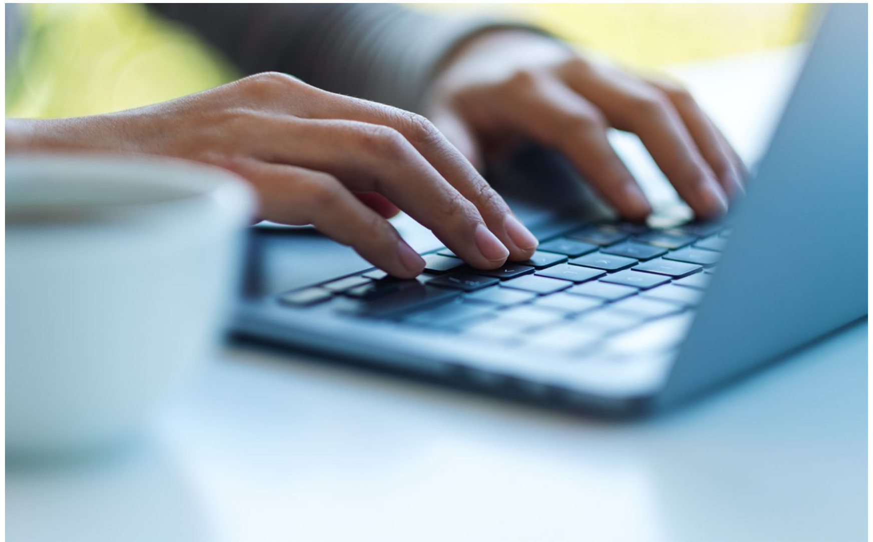
IS Orientation

The next IS Orientation is being held on September 25th

- It will be held virtually via WebEx from 1pm-3pm

- Please register at the link below:

https://covaconf.webex.com/weblink/register/ra80c2228f9b560704b5193640d78b1a5



October 2nd ISOAG

The Mandatory October 2, 2024, ISOAG meeting will be an In-person/Hybrid Event

Location will be the Reynolds Community College

In the Workforce Development and Conference Center

This is an opportunity to catch up with your fellow Information Security Officers in person, enjoy informative presentations, and mingle. Seating is limited to 150, so reserve your place at the in-person event. If you are unable to attend in person, and need someone to attend in your place, please notify Commonwealth Security, as attendance is mandatory for ISO’s.

Link to register in person:
https://covaconf.webex.com/weblink/register/r0809a97ccffc9550fed4f1325179cb89

Link to registers remote:
https://covaconf.webex.com/weblink/register/r527efc3bfe8a72d8eb29a04d0b988714

1651 East Parham Road
Richmond, Virginia 23228

Service Tower SOC Report Review Sessions

The upcoming SOC review session is October 10, 2024, and will be held remotely via WebEx. Please register at the link below

To register for this meeting, please click on the link below:
https://covaconf.webex.com/weblink/register/r9c8cb1394982eb22a7fa276a7f04fb91

MEETING ADJOURNED

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