

*Confidence in the Connected World*



# Year in Review

# 2017



# Welcome Message

This past year has been a year of unprecedented growth for CIS. Our role as a global, independent leader in cybersecurity for public and private organizations was demonstrated with expanded products and services across all of our program areas. This expansion enabled CIS to increase our impact with best practice solutions for improving cyber defense that enable an environment of increased trust in cyberspace.

 **522 New Members**

During 2017, the Multi-State Information Sharing & Analysis Center® (MS-ISAC®) added 522 new members to top the 1,800 mark. MS-ISAC membership organizations now cover 70% of the U.S. population. Additionally, the MS-ISAC ended 2017 monitoring 51 of the 56 U.S. States and Territories. Our partnerships with state and local government organizations as well as the U.S. Department of Homeland Security (DHS) continue to grow stronger, resulting in increased depth and breadth of the intelligence provided through the MS-ISAC monitoring, information sharing, and cyber education missions.

In late 2017, CIS initiated work to help secure our nation's elections infrastructure in collaboration with state and local elections officials, federal agencies, vendors, academia, and other nonprofit organizations. Development was begun of a handbook identifying best security practices for U.S. election infrastructure security to be published in early 2018. In addition, working with state elections officials and DHS, CIS initiated a pilot Elections Infrastructure Information Sharing & Analysis Center™ (EI-ISAC™) for elections officials and their technical teams.

**38,657**   
**CIS Controls™ Version 6 remained a popular resource for cyber defense, with 38,657 downloads in 2017**

 **40%** 

CIS greatly expanded the quality and quantity of its product offerings this year. We increased the functionality of our marquee products, the CIS Benchmarks™ and the CIS-CAT™ assessment tool. CIS also repackaged and rebranded our core membership offering into a new membership model — CIS SecureSuite®. This new membership model gives organizations of all sizes access to an updated CIS-CAT Pro configuration assessment tool, including the CIS-CAT Pro Assessor and Dashboard components, more remediation content, full-format CIS Benchmarks, select CIS Benchmarks annotated with CIS Controls™ mappings, as well as tutorials and support from CIS staff and developers. CIS SecureSuite Membership grew by more than 40 percent during 2017 to 1,484 members.

CIS also continues to grow its presence and impact in the cloud by expanding our CIS Hardened Images™ offerings to both the Microsoft® Azure and Google Cloud™ Platform, in addition to the previous Amazon Web Services® support. Cloud customers used more than 68 million machine hours of CIS Hardened Images in 2017. Our cloud offerings have emerged as CIS' fastest-growing and most impactful product offering.

 **Our cloud offerings have emerged as CIS' fastest-growing and most impactful product offering**

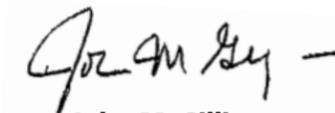
*world-class innovations, support, and resources*



Last but not least, the CIS Controls Version 6 remained a popular resource for cyber defense, with 38,657 downloads in 2017 – and we plan to surpass 100,000 total downloads in early 2018. Development of the CIS Controls Version 7 was initiated with a planned release in early 2018.

The test of any organization is its ability to have significant, measurable impact and to remain relevant. CIS' strong focus on our mission and meeting the pressing cybersecurity needs of the connected world fuels our commitment to produce world-class innovations, support, and resources now and in the future.

Sincerely,

  
**John M. Gilligan**  
 Executive Chairman



  
**Steven J. Spano**  
 Brig. Gen., USAF (Ret.)  
 President and Chief Operating Officer





# CIS Benchmarks™

900,000+

Downloads of our  
CIS Benchmarks  
PDFs in 2017

52

CIS Benchmarks  
were developed or  
updated in 2017

114

Derivatives with  
machine consumable  
content were  
produced or updated

157

Latest versions  
of the CIS Benchmarks  
are publicly available

229

Archived CIS  
Benchmarks versions  
are still available for  
download



-  **CIS Controls™**
-  **CIS Benchmarks™**
-  **CIS-CAT™ Pro**
-  **CIS WorkBench**

## CIS SecureSuite®

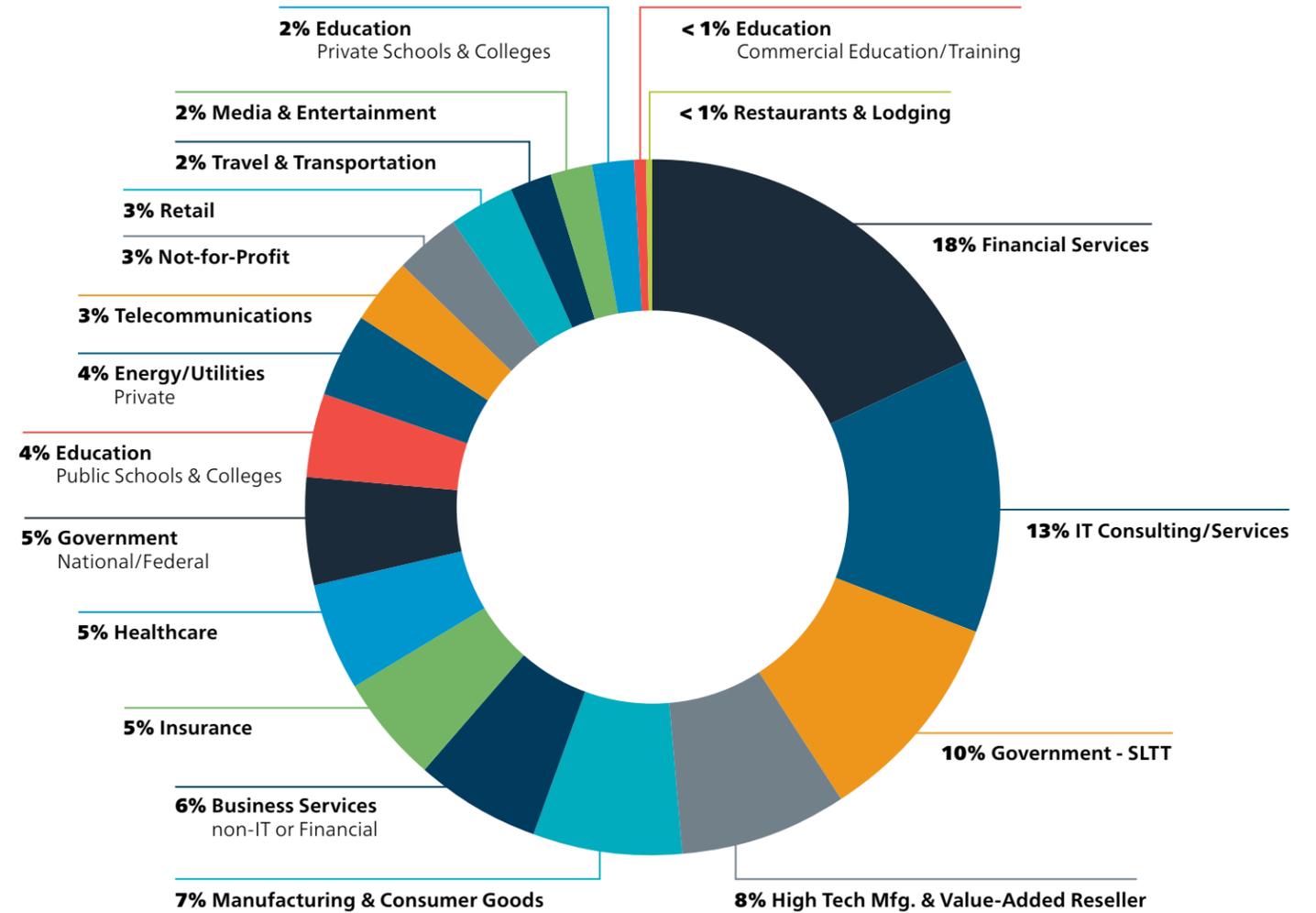
CIS launched new and updated functionality to our existing membership and suite of cybersecurity tools via the CIS SecureSuite Membership (formerly Security Benchmarks Membership) this year. CIS SecureSuite Membership includes the combination of the powerful CIS Benchmarks standards with the globally-recognized guidance of the CIS Controls best practices: many CIS Benchmarks are now developed with mappings to the CIS Controls, with plans to include all current CIS Benchmarks. Membership provides access to a range of tools and resources for public and private organizations, including: CIS Benchmarks annotated with CIS Controls; CIS-CAT Pro Assessor and Dashboard; and CIS WorkBench.

In 2017 CIS launched CIS-CAT Pro, the new, expanded version of CIS-CAT with two components: CIS-CAT Pro Assessor and CIS-CAT Pro Dashboard. CIS-CAT Pro Assessor provides the ability to port assessment results to the CIS-CAT Pro Dashboard. With the addition of the enhancements to the Dashboard, CIS SecureSuite members have dynamic and real-time views into their ecosystem. Enhancements include multiple benchmark views, multiple device views, tagging, and drill-down capabilities, exceptions creation, evidence-based reports, various export report formats, CIS Controls view, remediation reports, and complete reporting options. Throughout 2017, work continued to evolve CIS-CAT Pro, including gathering feedback to develop remote assessment capabilities (beta testing planned in early 2018).

CIS WorkBench is still the central hub of the CIS communities, and the CIS Controls community was added in 2017. Thanks to feedback from its communities and users, CIS WorkBench continued to evolve in 2017 as the tool for the development and maintenance of the CIS Benchmarks, improving the CIS WorkBench user experience, CIS Controls annotations, export functionality, and more.

CIS-CAT Pro Dashboard now provides dynamic and real-time views

### 2017 CIS SecureSuite Members by Industry





# CIS Hardened Images™

AWS®  
GCP™  
Azure

In 2017, CIS expanded its hardened image coverage beyond Amazon Web Services® (AWS®). In July, CIS Hardened Images for use in the cloud became available on Google Cloud™ Platform (GCP), then in September, our images became available in Microsoft® Azure Marketplace. Coverage for operating systems ranging from Red Hat® Enterprise Linux® to Debian® Linux® to Microsoft® Windows® is available.

The CIS Hardened Images are updated on a regular basis to apply security patches and other recommendations based on the updates of the CIS Benchmarks. In 2017 we provided close to 900 updates to CIS images found on the three major cloud provider platforms.

## 68,000,000+ Hrs.

**CIS Hardened Images 2017 Usage**  
CIS Hardened Images usage in 2017 exceeded 68 million hours used by customers. Additionally, CIS began to explore private offerings by working directly with organizations that had individual needs. Plans are underway to expand coverage in additional cloud platforms and to add technologies in 2018.

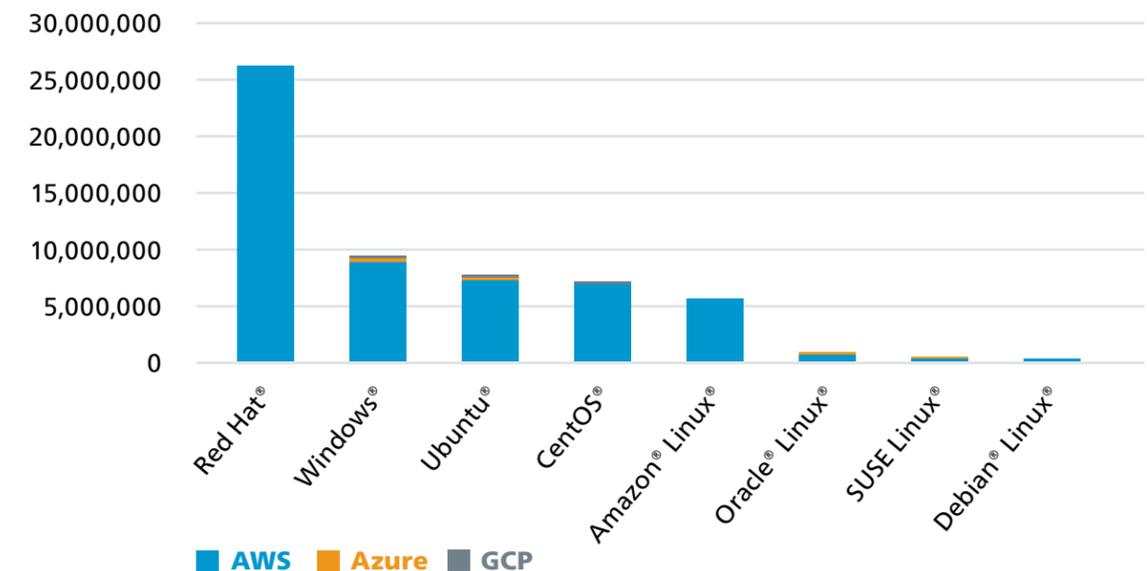


### Nearly 900 Updates & Patches

#### Total CIS Hardened Images Available by Platform

- 20 in AWS Marketplace®
- 20 in AWS® GovCloud (US) region
- 18 in AWS® IC region
- 14 in Google Cloud Platform™
- 15 in Microsoft® Azure

#### 2017 Combined CIS Hardened Images Hours and Usage by Technology



• AWS®, Amazon Web Services® and AWS Marketplace® are trademarks of Amazon.com, Inc. or its affiliates in the United States and/or other countries.  
 • Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.  
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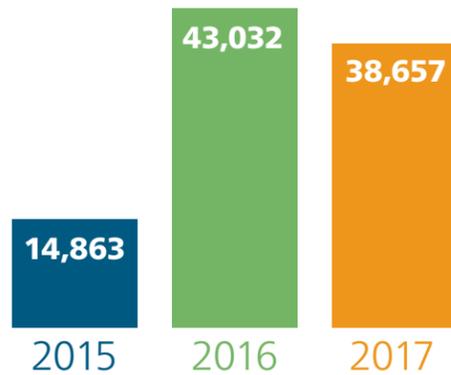


# CIS Controls™

## Overview

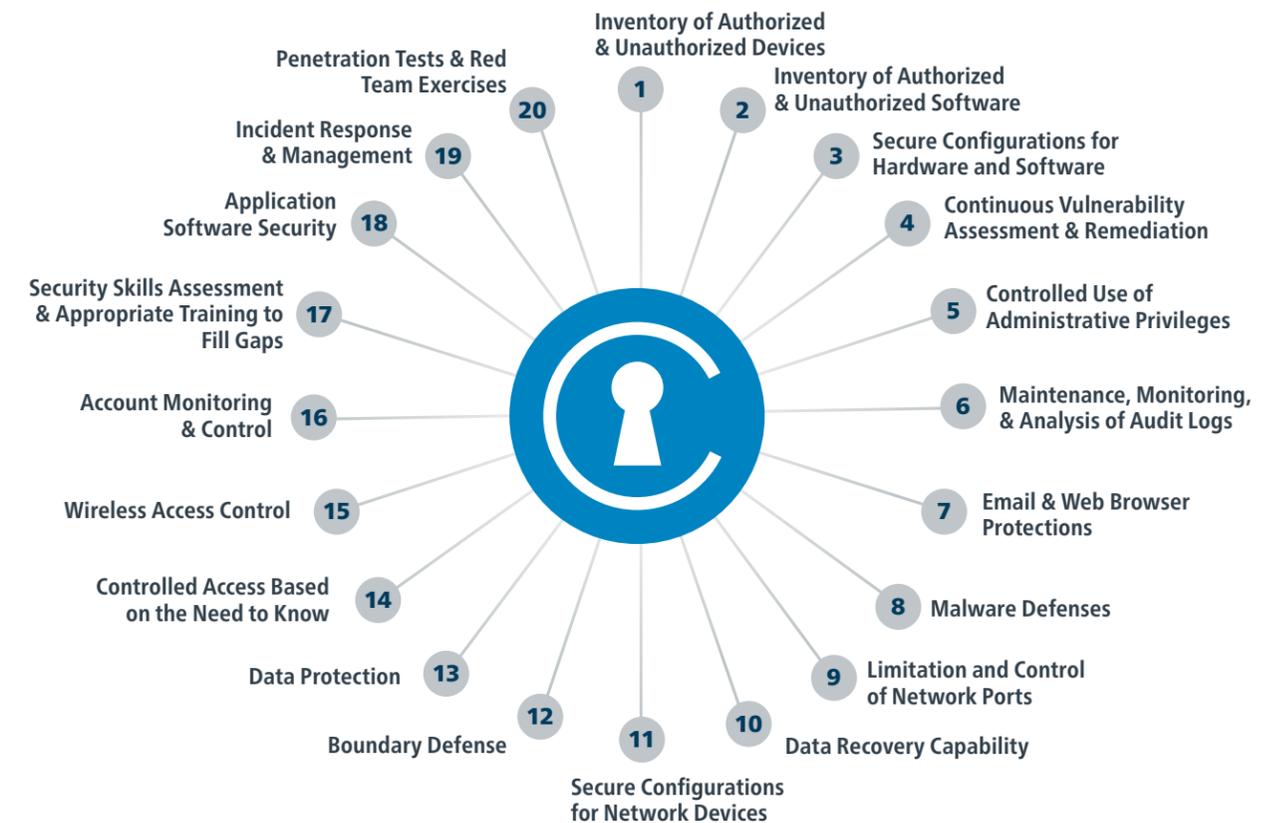
The CIS Controls program continued to grow and mature its efforts to increase universal awareness and adoption in 2017. Adopters visited the CIS website to download our prioritized set of actionable best practices because of their original core principles of prioritize, implement, sustain and align. The CIS Controls have been downloaded over 96,000 times.

## CIS Controls Downloaders Version 6



## Version 7 Collaboration and Community

During 2017, the CIS Controls program began a collaboration process with a global community of cybersecurity experts for updating the CIS Controls to align with the latest cyber threat data, security technology, as well as increasing business demands for information technology. The cybersecurity world is constantly shifting and reacting to new threats and vulnerabilities, which often results in chaos and confusion about which steps to take in order to harden systems and data. Seven key principles were identified to yield a more flexible, measurable, and helpful resource for any business or organization looking to secure its systems and data.



## CIS Controls 2017 Program Accomplishments

- ➔ Privacy Implications Guide and Cybersecurity for Small and Medium-Sized Enterprises Guide were published.
- ➔ The CIS Controls Team evangelized the CIS Controls at over 25 speaking engagements and webinars.
- ➔ CIS Controls have been highlighted numerous times by the media.

**MS-ISAC®**  
Multi-State Information  
Sharing & Analysis Center®

The mission of the Multi-State Information Sharing & Analysis Center (MS-ISAC), with financial support from DHS, is to improve the cybersecurity posture of the nation's state, local, tribal and territorial governments through focused cyber threat prevention, protection, response, and recovery activities. Membership includes states, territories, and fusion centers. Local government members now represent more than 70% of the U.S. population.



65,000

Sent over 65,000 network monitoring and system compromise/vulnerability notifications to members.

In 2017, the MS-ISAC hosted a pilot program to support state and local election officials.

In order to facilitate automated indicator sharing, a new STIX/TAXII platform was deployed and is in use by over 275 members and partners.

The results of the Nationwide Cyber Security Review (NCSR) indicated that local governments, although improving at a faster rate, continued to lag behind states in their overall security maturity level. On average, both state and local governments were still under the minimum recommended maturity level (3% for local governments vs. 11% for states).



137

Conducted 137 forensic investigations.

8,500

Analyzed over 8,500 pieces of suspected malware.

218

Analyzed 218 petabytes of data, which generated 12.4 trillion records, a 70% and 81% increase, respectively, over the previous year.

630

Distributed over 630 products to members.

125

Sent 125 takedown notices to U.S. providers hosting infrastructure serving malware to the SLTT community.

40%

Membership grew by 40%!

# CIS CyberMarket™



CIS CyberMarket™ continues to serve the U.S. State and Local government communities by identifying top-notch cybersecurity vendors, vetting them through the CIS CyberMarket Product Review Board and then negotiating a significant discount for our CIS CyberMarket partners. In 2017, we helped our government partners save more than \$10,000,000 on software and services provided by SANS and others. We continued to expand the partnership in 2017 by adding solution providers such as SkyHigh

\$10,000,000+ Saved

and Kroll®, who are offering new and innovative cyber defense tools for our partners.

CIS CyberMarket staff are accelerating efforts to leverage the expertise of our partners, as well as subject matter experts within CIS, by sharing their knowledge in CIS' *Cybersecurity Quarterly*. This digital publication features articles on how to implement best practices, retrospectives on recent cyber threats, and other helpful information relevant to state and local governments. It is shared with more than 5,000 members of the state and local government community.



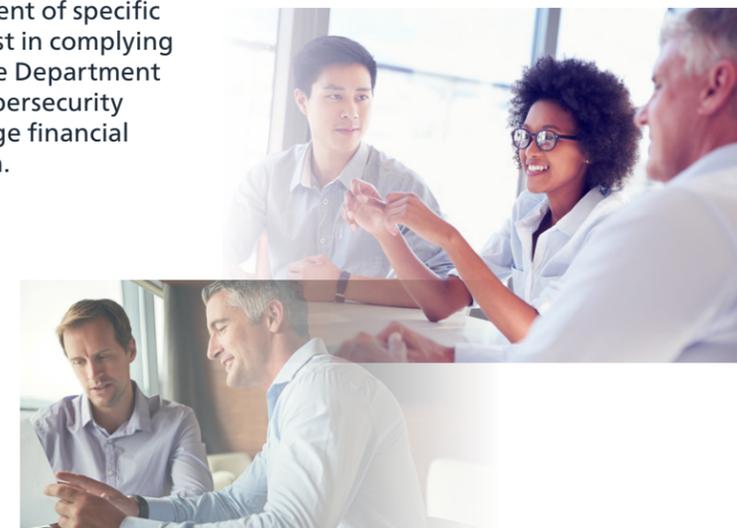
# CIS Services™

## Consulting

CIS engaged with several private sector organizations to provide select services in 2017. These services include vulnerability scanning, consulting, training seminars, and assistance with implementing CIS-CAT™ Pro. These services were offered on a “for fee” basis to allow CIS to cover costs for services rendered and provide additional revenue streams to support other mission efforts. During 2017 CIS performed speaking events and seminars for 11 organizations, vulnerability scanning or pen testing for three organizations, assistance with implementing CIS-CAT Pro for two, and the development of specific policy templates to assist in complying with the New York State Department of Financial Services Cybersecurity Regulations for one large financial professional association.

## Partner Paid

CIS provides select services to state and local governments on a “for fee” basis as a way to fund services beyond the scope of the cooperative agreement and to generate additional revenue for CIS to help us achieve our mission. These services include Albert Monitoring, vulnerability scanning, and consulting services. In 2017, CIS added 18 new Albert devices, bringing the total number of partner-paid devices in service to 85. During this time, we were also engaged to perform four vulnerability assessments and 17 consulting engagements. As Albert is a low-cost intrusion detection and NetFlow monitoring solution, it is becoming increasingly popular among state and local governments looking to enhance their cybersecurity defenses.



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Senior Vice President and Chief Evangelist

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Chief Financial Officer



**For the second year in a row, CIS was named one of the Top Workplaces by the Albany Times Union.**

Only 50 companies get selected for this annual award, which has categories for small, midsize, and large businesses. CIS is a Top Workplace winner in the midsize company category and the overall winner in the Employee Training category.





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