





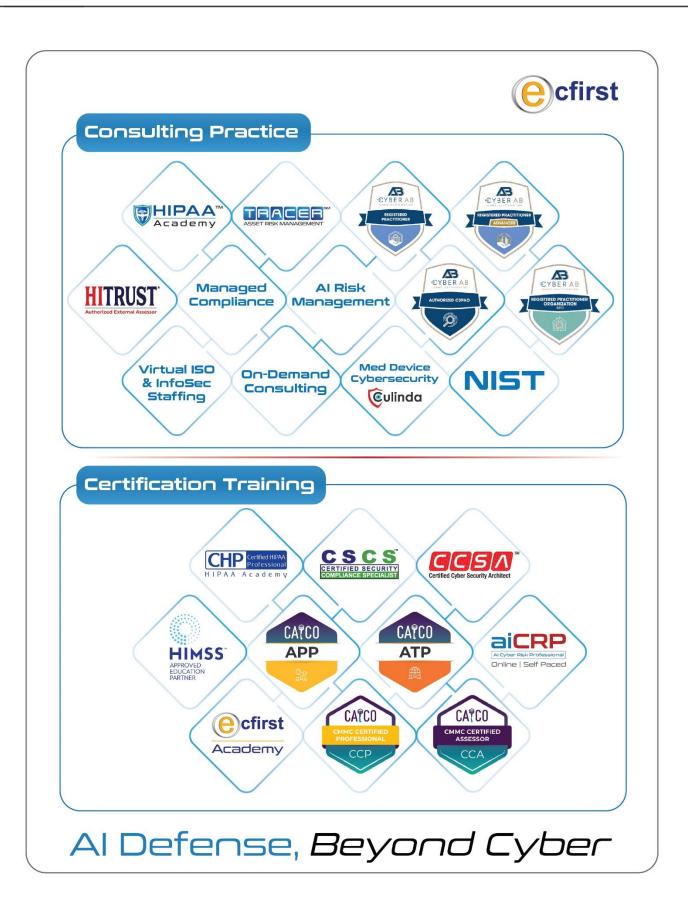


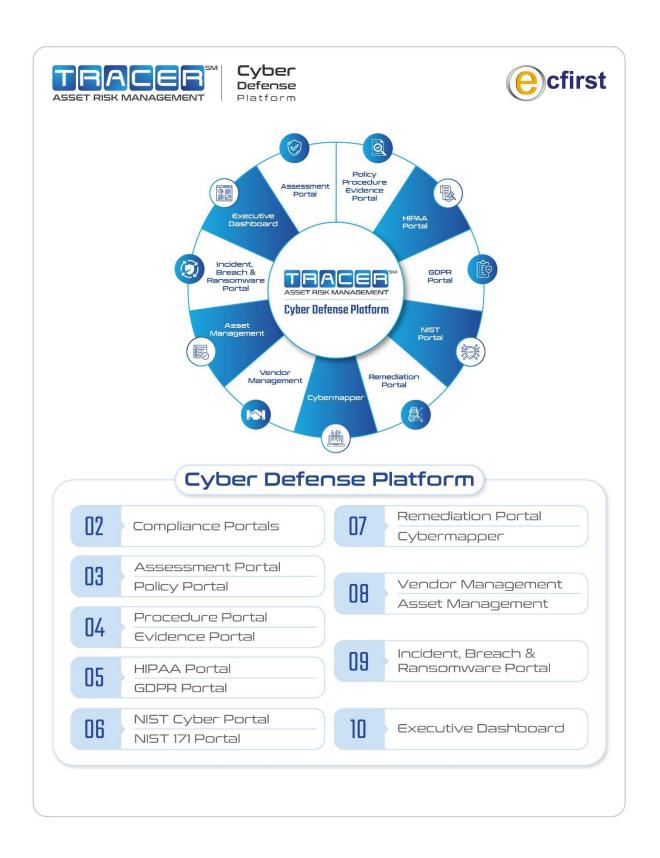


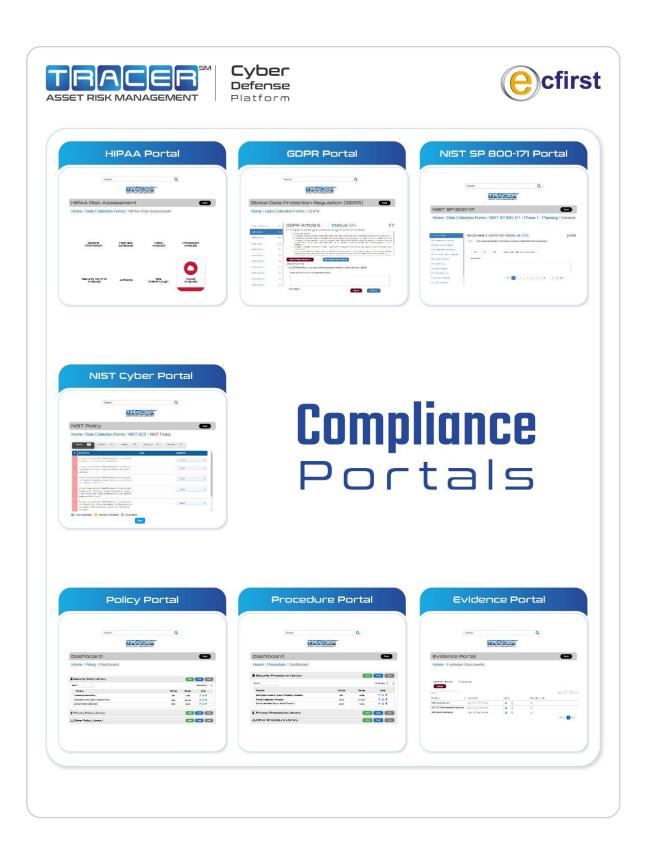


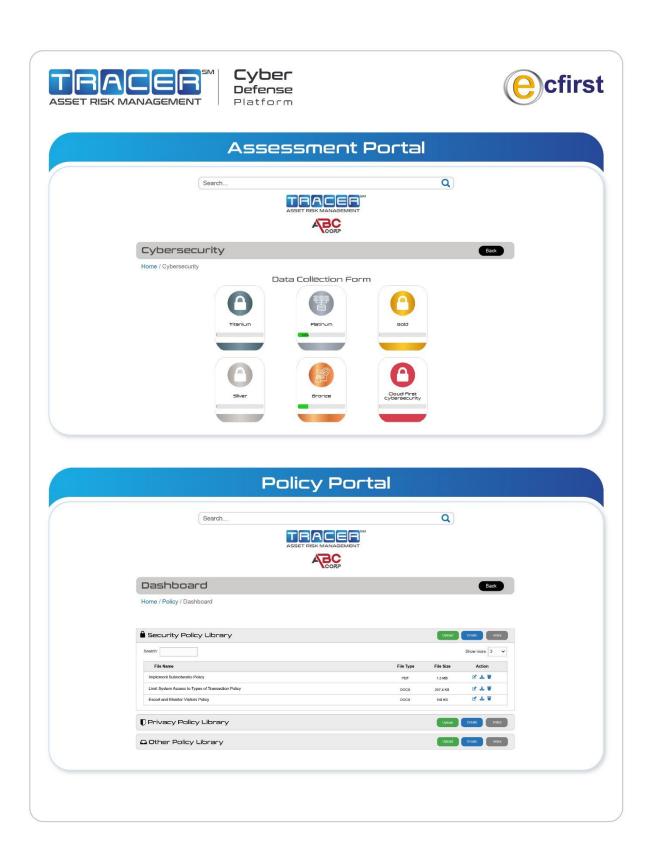
Table of Contents

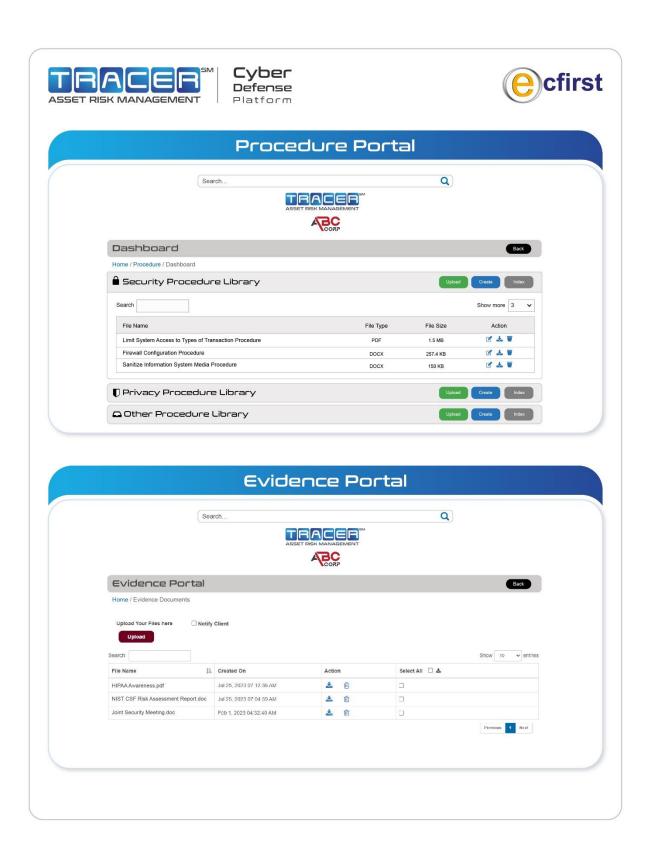
About ecfirst 3 TRACE STREET PASSET
HIPAA & HITECH
ISO 27001
GDPR24
HITRUST
Cybersecurity Services
NIST27
On-Demand Consulting28
Managed Cybersecurity Services Program (MCSP)29
BIA & IT Disaster Recovery Plan30
Risk Analysis30
Cybersecurity Assessment & Penetration Testing32
Virtual ISO& Infosec Staffing Program50
Biomed & IoT52
Certification Training
CHP (CHP (CHP (CHP (CHP (CHP (CHP (CHP (
CSCS ETHTED SECONDS
COSIA"
CMMC57
58
COME CAT Find Assesser
About Uday Ali Pabrai62

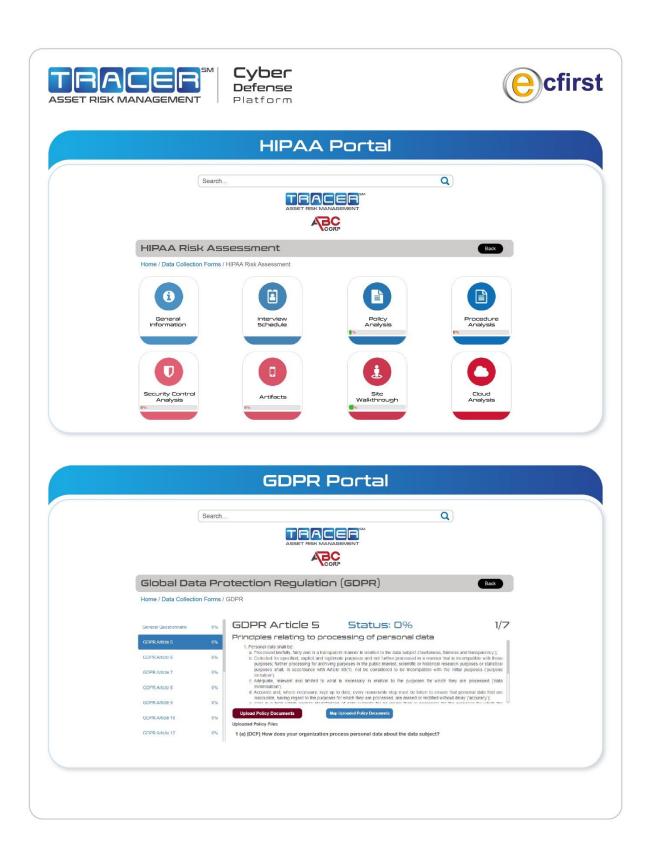


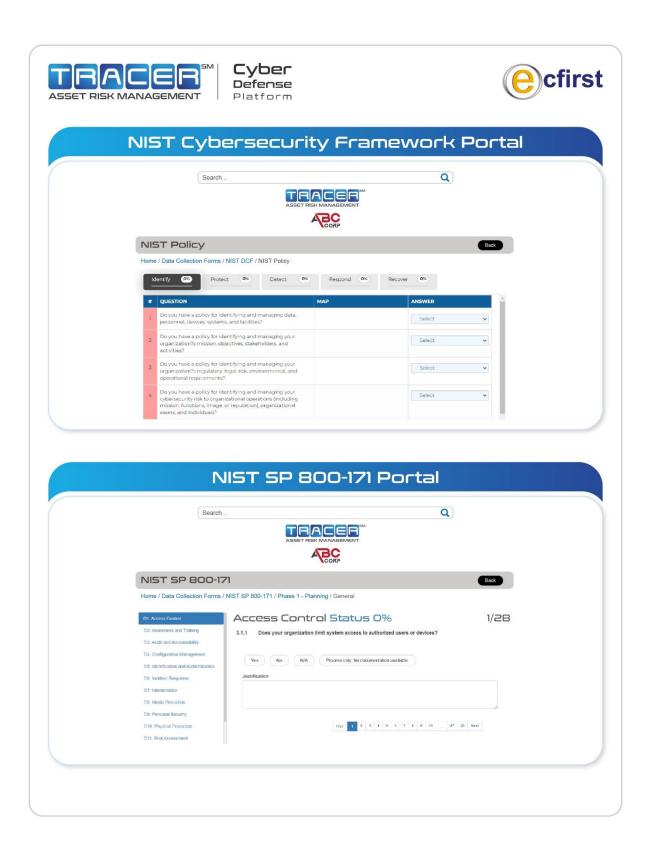


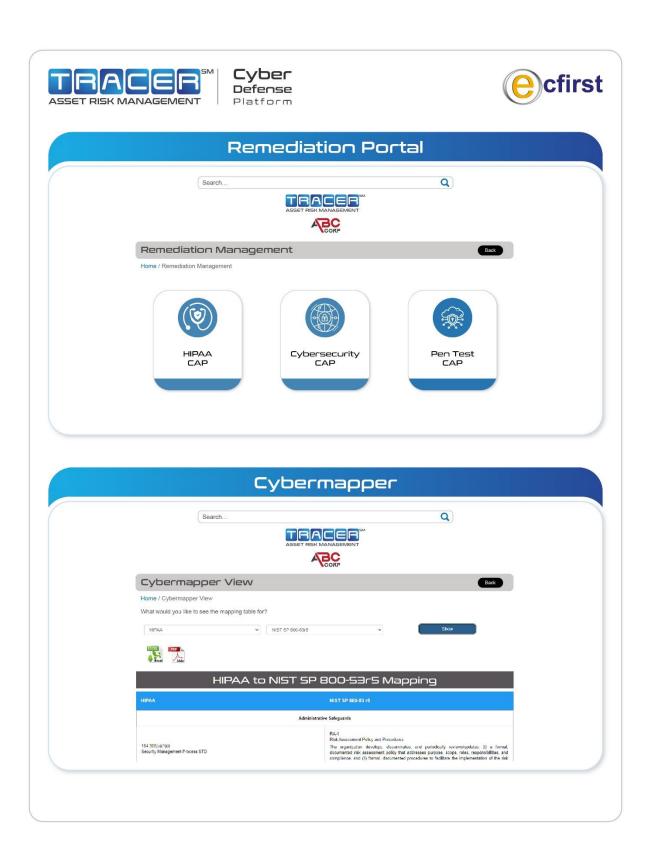




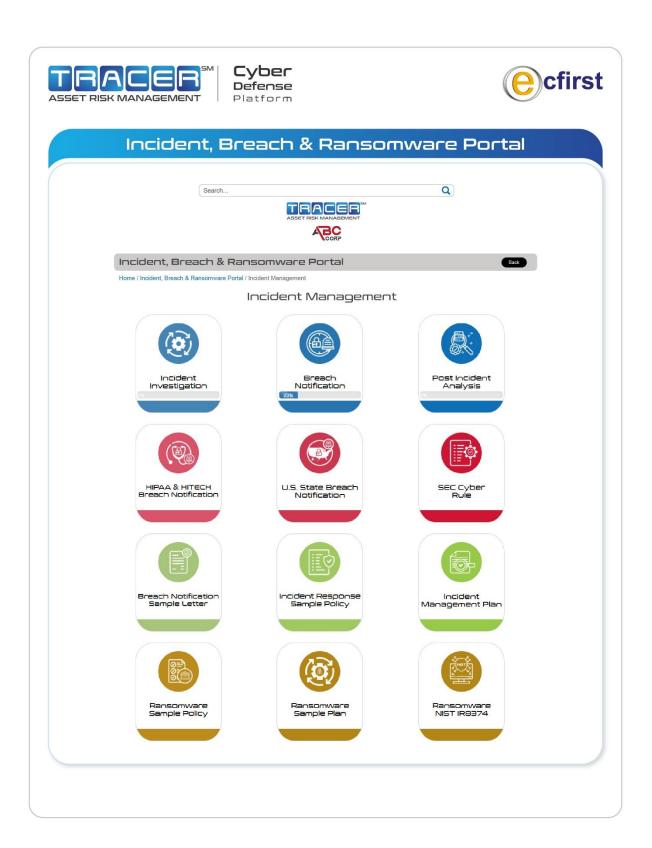


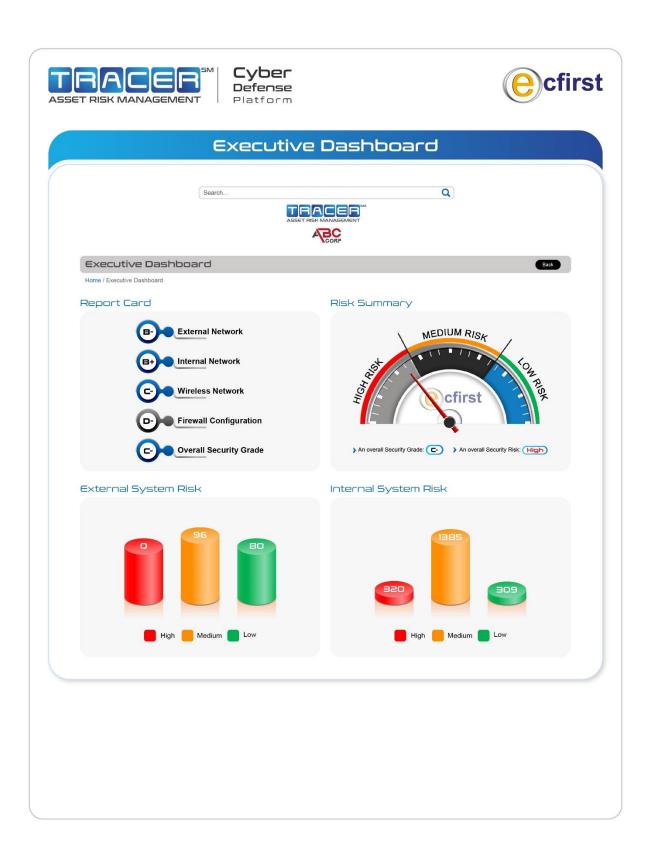




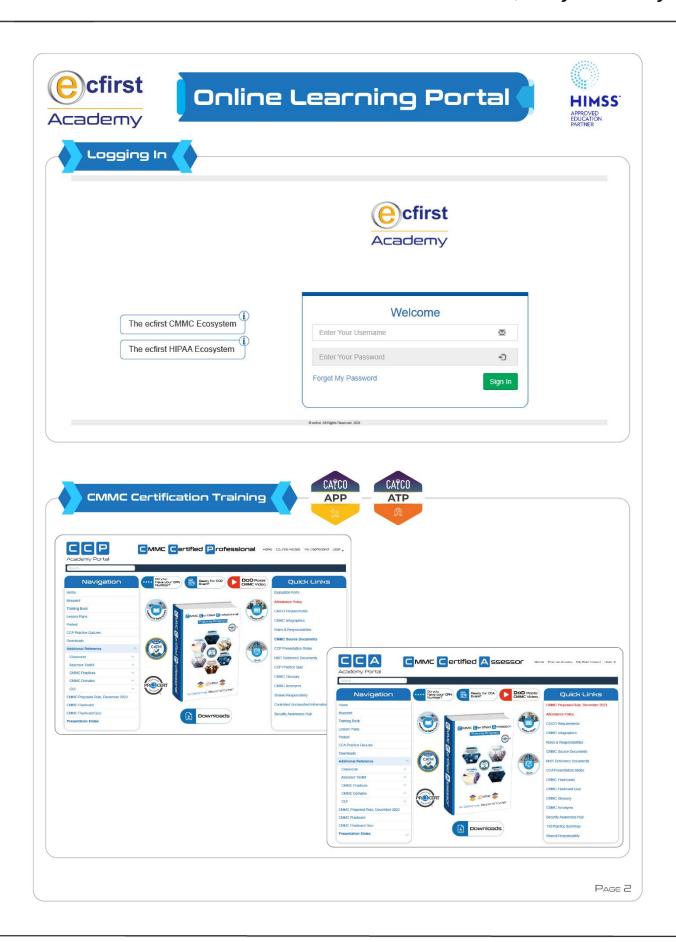


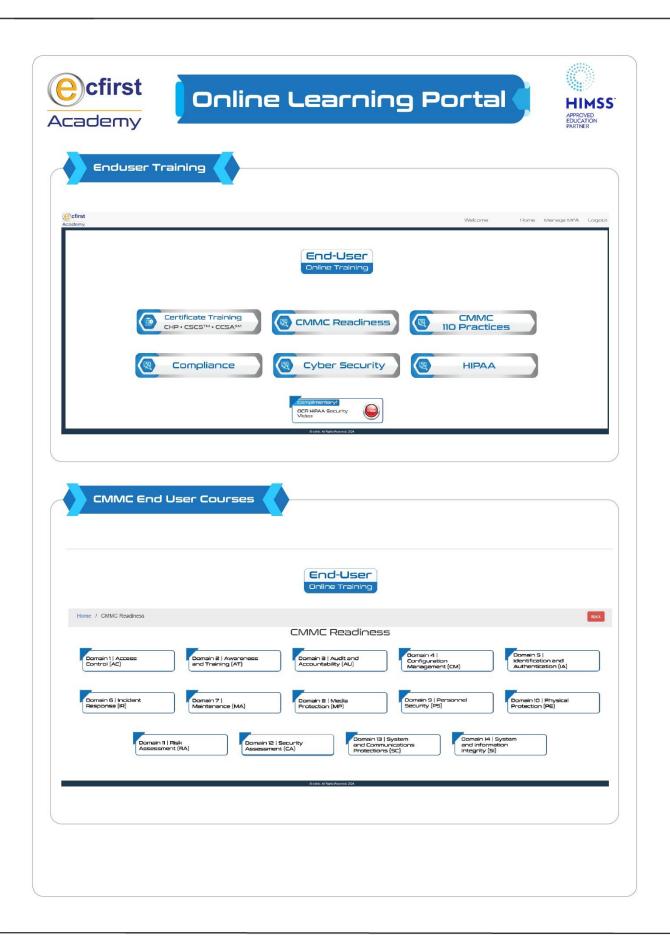


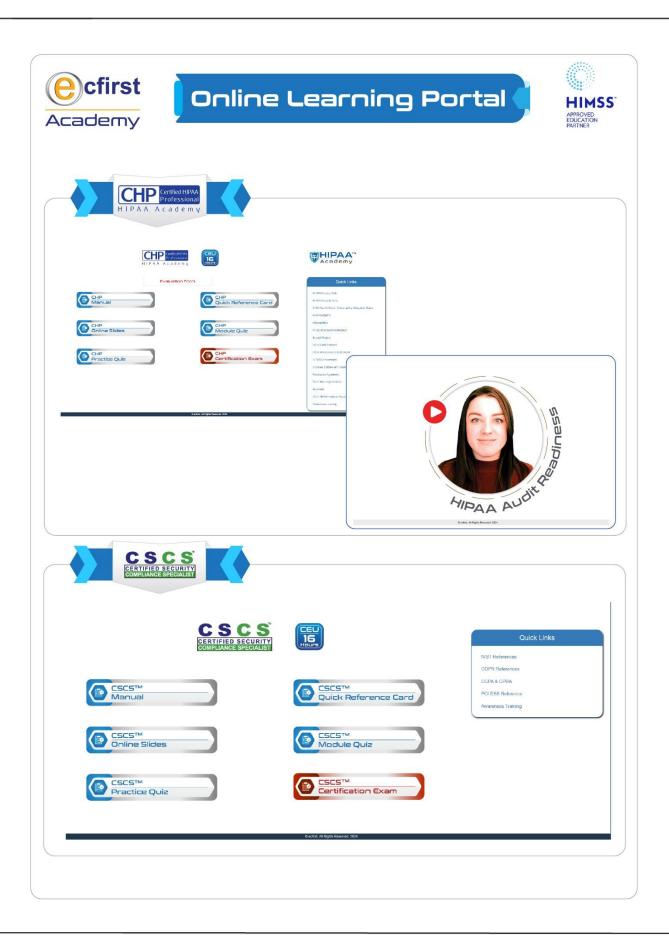


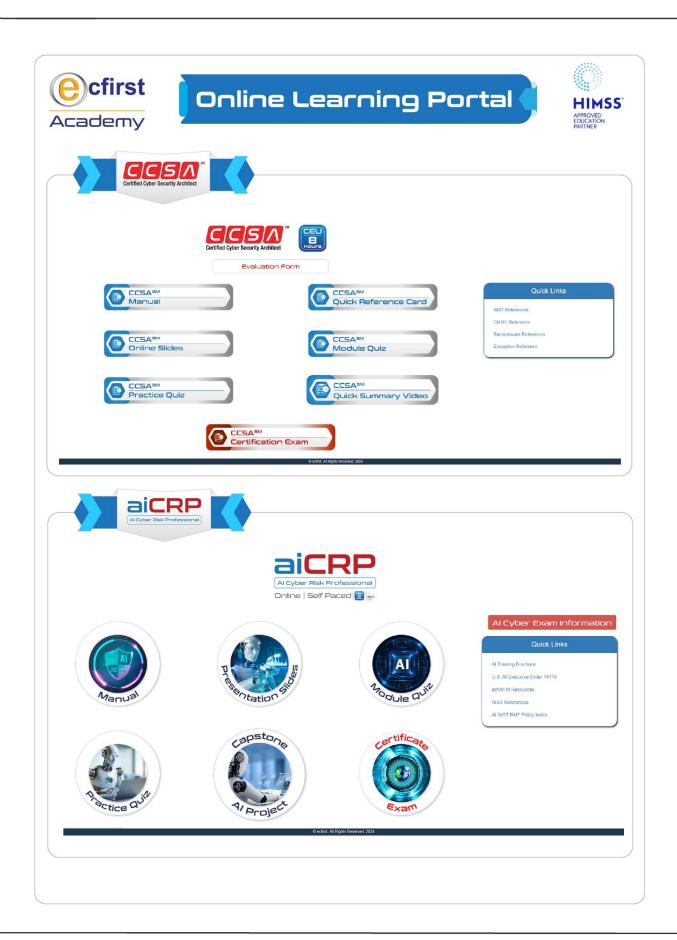














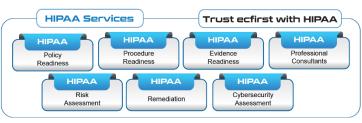
HIPAA & HITECH





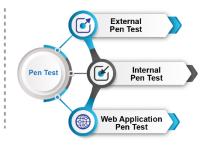
ecfirst was the first organization in the United States to deliver HIPAA training, consulting and certification services. The HIPAA Academy is the gold standard in the healthcare industry. ecfirst "delivers everything HIPAA". Talk to ecfirst and discuss your HIPAA and HITECH compliance challenges and requirements. ecfirst will create a tailored solution for your organization. Ask about the ecfirst Managed Compliance Program to maintain your HIPAA compliance program.

- Perform a comprehensive and thorough HIPAA Risk Assessment.
- Conduct a Cybersecurity Assessment to identify gaps.
- O Develop tailored suite of policies and procedures.
- OPDeliver certification training providing in-depth coverage of HIPAA.
- Remediate cybersecurity and compliance gaps.
- Oreate customized incident response, cybersecurity, and disaster recovery plans













The industry's first and most comprehensive HIPAA training and certification program.

- Analyze the latest updates in HIPAA Privacy, HIPAA Security and HITECH Breach mandates.
- Examine OCR HIPAA settlements to understand the bar for HIPAA compliance.
- Review HIPAA compliance challenges and best practices for covered entities and business associates.



PCI DSS Services



PCI DSS: An Important Security Standard

The Payment Card Industry (PCI) Data Security Standard (DSS) is a global information security standard for protecting cardholder data. The PCI DSS requirements apply to merchants and other organizations that store, process, or transmit cardholder data. PCI DSS is a compilation of best practices for securing data throughout the information lifecycle. The PCI standard identifies several processes and procedures required to protect cardholder data. With unmatched laser beam focus on regulatory compliance and information security, ecfirst has the services your organization needs to prepare for and deliver on PCI compliance today.

Monitor & control access to systems

Remove sensitive authentication data & limit data retention

> Protect the perimeter, internal, & wireless networks

PCI DSS Goals

The ecfirst PCI Readiness Assessment

This assessment enables organizations to understand the current PCI standard compliance posture and includes a Corrective Action Plan (CAP). This assessment is a remediation roadmap that the organization should complete prior to undergoing a formal PCI audit.

Protect stored cardholder data Finalize remaining compliance efforts, & ensure all controls are appropriately implemented



ecfirst Brings Deep Experience & Expertise with PCI DSS

Secure

payment card

applications

The ecfirst PCI DSS Readiness Assessment is a methodical examination and review of the state of PCI compliance with the defined control objectives and associated requirements of version 3.2 of the Standard. This ecfirst exercise results in an actionable & comprehensive PCI DSS Readiness Assessment Report that summarizes findings and provides details on areas in which the organization does not comply. A prioritized list of activities and recommended timetable are included, as is an executive presentation of the assessment findings.

ISO 27001 Services



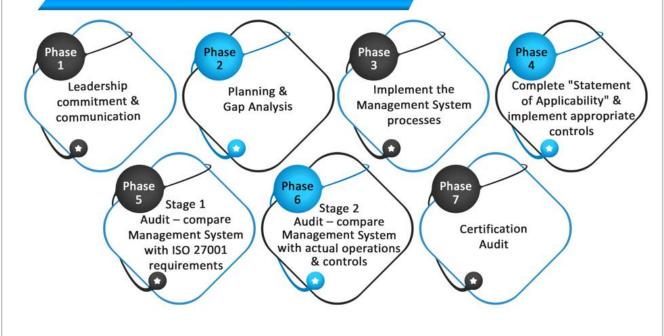
Organizations are increasingly considering applying the family of ISO 27001 international security standards to comply with various U.S. Federal and state regulations such as HIPAA, HITECH, as well as standards such as the PCI DSS. The ISO 27001 is a global standard that provides a comprehensive framework organizations can adopt to address compliance requirements and establish a resilient information infrastructure.

ecfirst Brings Deep Experience & Expertise with ISO 27001

ecfirst's fast-paced, one-day private training workshop on ISO 27001, its policy templates, quick reference cards, and deep consulting expertise embodied in its signature methodology,

bizSHIELD™, are enabling organizations to easily adopt the ISO standard.

A Phased Approach to Adopt ISO 27001



ISO 27001 Services



ISO 27001 & 27799



Examine the core requirements of the ISO 27001 standard.

Understand the core elements of an Information Security Management System (ISMS).

Walk through several sample security policy templates an organization may use to address regulatory requirements.

Examine the clauses, categories, and controls defined in the ISO 27002 standard.

Examine the objective and core requirements of the ISO 27799 standard.

ISO 27001 & ISO 27799 Services

ISO 27001 Training

A fast paced, instructor-led, one-day Getting Started with the ISO 27001 training delivered at your site.

CSCS™ Program

A two-day in-depth certification program, Certified Security Compliance Specialist™ (CSCS™) that addresses ISO 27001, PCI DSS, HIPAA, HITECH, FISMA and a lot more.

150 27001 Policy

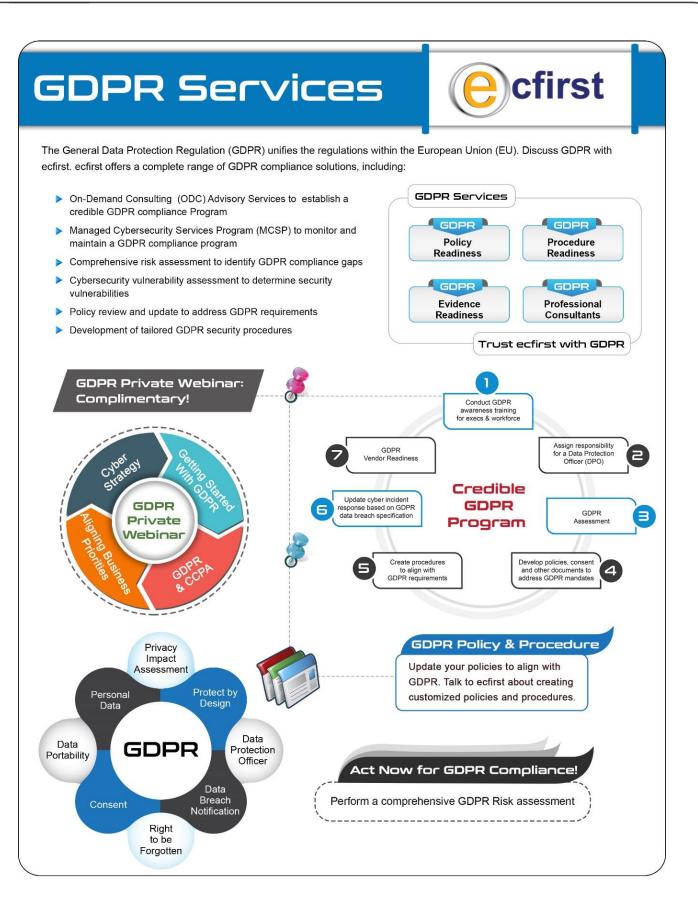
ISO 27001 Security Policy Templates that can easily be tailored to enable your organization to establish a comprehensive library of policies.

Managed Compliance

Managed Cybersecurity Services Program (MCSP) for ISO 27001 that enables your organization to leverage deep ecfirst ISO expertise and yet pay a fixed monthly fee for a 36-month period and access a range of services at a fixed price.

ISO 27001 Webcast

ISO 27001 Webcast – Applying the ISO 27001 Standard to Address Federal and State Regulations.



HITRUST Signature cfirst CHEP'T Refer Why @cfirst? Knowledge Transfer Devotion to HITRUST Expertise Cost and time efficiency at every step Successfully Achieved ecfirst team spent countless hours in **i1** r2 Weekly HITRUST Status providing key HITRUST HITRUST Touch-point calls to ensure information and engagement is on schedule resources HITRUST Assessor Council HITRUST Engagements Selected to the Council and serves on the Al Committee Swift Response on queries HITRUST Thought Leadership Flat Price SOW gerirst CEO selected to speak at No additional costs **HITRUST Conferences** Insights shared in published HITRUST articles Flexible Terms One or multi-year engagement A HITRUST Authorized External duration The partnership with Assessor Monthly payment option ecfirst was paramount to our successful journey to achieve HITRUST CSF certification Signature Methodology Strategy Workshop HITRUST Review & Certification Scopina) Identify N/A Validated **)** Determine ecfirst walked us Assessment Inheritances and Testing through every step of HITRUST > Policy & the way in achieving Procedure Methodology Development our organization's HITRUST goal) Guided Readiness Remediation Pre-validation Guidance Evidence Review



NICT

NIST Cybersecurity Framework Services



ecfirst delivers a comprehensive suite of end-to-end NIST Cybersecurity Framework Services. Align your compliance program with the NIST Cybersecurity Framework. Ask about a complimentary seat in the industry leading cybersecurity certification training program,

CSCS

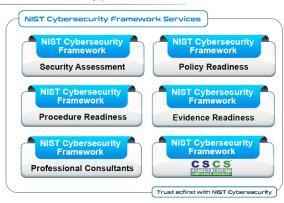
- Perform a comprehensive and thorough NIST Assessment.
- Conduct a Cybersecurity Assessment to identify gaps.
- Develop tailored suite of policies and procedures.
- Deliver certification training providing in-depth coverage of NIST.
- Remediate cybersecurity and compliance gaps.
- Create customized incident response, cybersecurity, and disaster recovery plans.





NIST Cybersecurity Framework Policy & Procedure!









The Industry's first program focused on cybersecurity compliance mandates.

- Step through industry standards such as PCI DSS, GDPR, CCPA, ISO 27001, HIPAA, and FISMA.
- Evaluate America's standard for compliance: NIST guidance and special publications.
- Understand U.S. state government information security mandates (e.g. Texas, California, New York and others).
- Explore best practices to build a credible compliance and cybersecurity program.



On-Demand Consulting (ODC)



Remediatio

On-site | Virtual

A Flexible Consulting Service Tailored to Your Needs

We at ecfirst refer to this consulting model as "you can do it, we can help." ecfirst resources may be applied to work along with your IT and compliance personnel to help:

- Create and update cybersecurity policies
- Technical procedures
- Processes
- Forms
- Supporting documentation
- Other required tasks

The ecfirst On-Demand Consulting (ODC) service you can immediately jump-start cybersecurity and compliance projects, as well as address remediation activities. The ODC services can be delivered on-site, or virtually, across the United States.

- Minimum 10-hour blocks of consulting time
- Fixed-rate
- No long-term commitment
- Expert compliance and cybersecurity resources to use for your initiatives

The ecfirst Team can lead and support projects in the areas of HIPAA, HITECH, ISO 27001, NIST, CMMC, GDPR, CCPA, 23 NYCRR 500 and others.

Thinking about HITRUST CSF® certification? Talk to ecfirst about aligning your policies and procedures with the NIST cybersecurity framework and the HITRUST CSF.

On-Demand compliance solutions from ecfirst provide your organization with access to specialized compliance and security resources with no short or long-term commitment. Get started today!

Client Reference

We found that ecfirst provided exceptional value for the work they delivered. The staff members were easy to work with. Their insight and guidance has enabled our organization to be better positioned to address compliance requirements. We highly recommend ecfirst and look forward to working with them again in the near future."

Kristi Schmidt

Michiana Health Information Network (MHIN)





Short Term

Consulting

Policies





Manage Compliance for HIPAA, NIST and more

Does your organization need to comply with regulations & standards such as the HITECH Act, State Regulations, HIPAA Privacy & HIPAA Security? Are your internal resources stretched to capacity & you lack the necessary expertise to identify all cybersecurity gaps & vulnerabilities?

More than ever before, businesses today need to comply with cybersecurity & regulatory requirements to protect sensitive information about their customers, who may be consumers or patients. The penalties associated with not meeting cybersecurity requirements are not insignificant. Further, organizations have to extend precious internal resources to gain cybersecurity expertise & then manage regulatory requirements for privacy & information on a recurring basis.

This can be challenging to most organizations. ecfirst can help with its MCSP - the first program of its type in the industry, worldwide.

ecfirst delivers complete end-to-end solutions for cybersecurity. With over thousands of clients across all States in the USA, ecfirst tailors its work to closely align with your requirements & culture. Whether your requirements include a resource to implement security controls & technologies, develop policies & procedures, or comply with HIPAA, HITECH, PCI DSS, ISO 27001, ecfirst is flexible to address your workforce needs.

On a regular schedule, organizations must by law:

- · Assign responsibility to the security officer who is responsible for coordinating cybersecurity initiatives
- Conduct a comprehensive & thorough cybersecurity assessment
- Complete a Business Impact Analysis (BIA) for contingency planning & disaster recovery
- Develop & update security policies & procedures
- Train all members of the workforce

MCSP Benefits

MCSP is designed to assist organizations, including business associates manage cybersecurity requirements, security & core components of the infrastructure. ecfirst's MCSP is designed to address critical regulatory requirements. Key benefits of the managed cybersecurity program include:

- Clearly defined deliverables to achieve secured organization
- Expert advisor assigned serves as interim Information Security Advisor (one call; one email)
- Risk analysis & cybersecurity assessment conducted on a regular schedule
- Policies maintained on a continual basis
- Easily tailored to your organizational requirements highly flexible
- Very scalable program can monitor & audit as required
- Skilled resource pool with expert domain knowledge
- Fixed monthly fee, no interest





66

Prime Healthcare and its network of 40+ hospitals are excited to have exclusively selected ecfirst, home of the HIPAA Academy, to address HIPAA and HITECH regulatory compliance mandates. The engagement is based on the ecfirst MCSP which is a complete end-to-end comprehensive compliance solution that addresses risk analysis, technical vulnerability assessment, policy development, social engineering, business impact analysis, creation of a disaster recovery plan, as well as on-demand remediation services for risk management (corrective action plan). Prime Healthcare is excited to have partnered with an organization – ecfirst – that is recognized in the healthcare industry and with business associates internationally, as a leader devoted to enabling health systems to continually meet information privacy and security regulatory requirements.

© ecfirst. All Rights Reserved. 2025

BIA & IT Disaster Recovery Plan Prepared for a Cyber Event?





Contingency planning, also referred to as Business Continuity Planning (BCP), is a coordinated strategy that involves plans, procedures and technical measures to enable the recovery of systems, operations, and data after a disruption. A Business Impact Analysis (BIA) is the foundation for building Contingency Plans. Once the BIA is completed, Contingency Plans can be developed using the information identified in the BIA. Typically, two types of Contingency Plans will need to be developed: Emergency Mode Operations Plan for business unit recovery and IT Disaster Recovery Plan (IT DRP) for Information Technology (IT) systems and infrastructure.

Compliance Mandate Contingency Plan is a HIPAA Security Standard. It is also a Clause in the ISO 27001 Security Standard. The objective of the Contingency Plan Standard is to establish (and implement as needed) policies and procedures for responding to an emergency or other occurrence (for example, fire, vandalism, system failure, and natural disaster) that damage systems that contain ePHI or PII.

Identify critical computer resources



Ransomware. Prepared?

Organization must perform a Business Impact Analysis & Develop IT Disaster Recovery Plan.

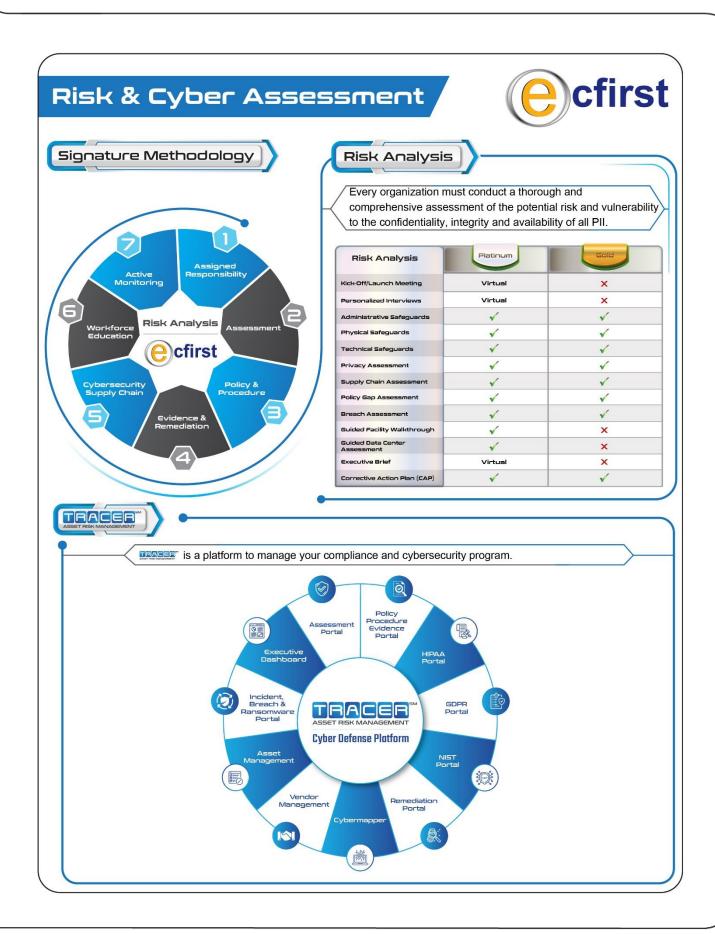
Client Deliverables

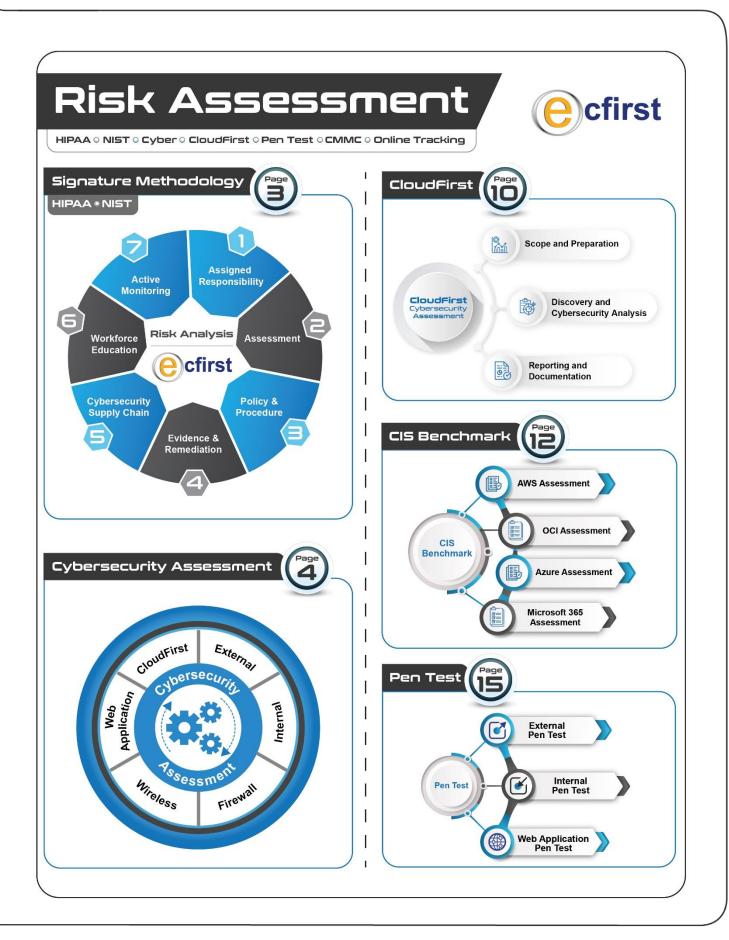
1

Business Impact Analysis Report

2

An IT Disaster Recovery Plan



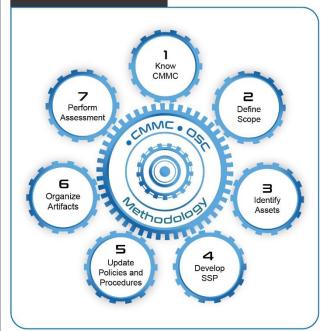


Risk Assessment



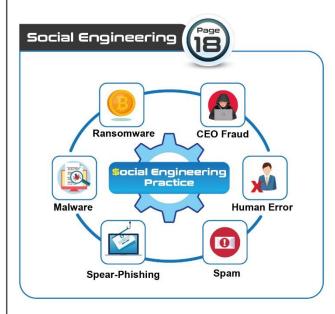
HIPAA O NIST O Cyber O CloudFirst O Pen Test O CMMC O Online Tracking

CMMC Readiness



Asset Risk Management







Risk Analysis

Every organization must conduct a thorough and comprehensive assessment of the potential risk and vulnerability to the confidentiality, integrity and availability of all PII.

Risk Analysis	Platinum	Gold
Kick-Off/Launch Meeting	Virtual	×
Personalized Interviews	Virtual	x
Administrative Safeguards	✓	✓
Physical Safeguards	✓	✓
Technical Safeguards	✓	✓
Privacy Assessment	✓	✓
Supply Chain Assessment	✓	✓
Policy Gap Assessment	✓	✓
Breach Assessment	✓	√
Guided Facility Walkthrough	✓	×
Guided Data Center Assessment	√	×
Executive Brief	Virtual	×
Corrective Action Plan (CAP)	✓	✓



Cybersecurity Assessment

Every organization must conduct a thorough and comprehensive assessment of the potential risks and vulnerabilities to the Confidentiality, Integrity, and Availability (CIA) of all sensitive, confidential information.



Executive Dashboard







Cybersecurity Assessment

Titanium

The Titanium Level Assessment is organized into four (4) distinct areas.

You must be able to deploy a Virtual Machine image (in OVF format) supporting our defined specifications, such as an ESX server or VMWare Workstation installation. If you are unable to deploy our Virtual Machine image, we will send you a hardware device at an additional cost.

External Assessment

- Externally accessible IP addresses (up to 256) scanned for vulnerabilities; all identified vulnerabilities validated to the extent possible
- Up to four (4) external domains tested for:
 - » Google Hacking Database entries
 - Domain Name Server misconfigurations
 - » Metadata in publicly accessible documents
- Up to two (2) websites/applications crawled/scanned for vulnerabilities under one (1) user role
- Scope does not include Biomedical Device Cybersecurity Assessment or other specialized devices and equipment

Wireless Assessment

We will send a handheld device (along with instructions) that someone in your organization will utilize to assist us in this portion of the assessment

Assessment of one (1) physical building to identify:

- » Potentially rogue Access Points/SSIDs
- » Open wireless access segmentation review, including testing of segmentation
- Insecure authentication/encryption configurations including testing of Pre-Shared Key strength

Firewall Assessment

- Review of up to four (4) supported firewall configurations to identify Operating System-related vulnerabilities and best practice adherence
 - » Includes review of firewall rules on a single (1) firewall to assist with business justification documentation and configuration according to the principle of least privilege



Internal Assessment

- Internal IP addresses (up to 4096) scanned for vulnerabilities; all identified vulnerabilities validated to the extent possible
- Up to 16 Class C network ranges scanned for:
 - Devices responding to "default" SNMP Community Strings
 - Systems running up to three (3) database server types (i.e. MSSQL, MySQL, Oracle, etc.) that allow open access
 -) Identified systems also tested for "default" credentials
- W Up to three (3) Active Directory domains tested for:
 -) Identity and Access Management best practice adherence
 - » Password Policy best practice adherence
 - » User account password strength
 - USB device enumeration of systems registered in Active Directory
 - >> Identification of currently connected devices



Platinum

The Platinum Level Assessment is divided into four (4) distinct areas.

You must be able to deploy a Virtual Machine image (in OVF format) supporting our defined specifications, such as an ESX server or VMWare Workstation installation. If you are unable to deploy our Virtual Machine image, we will send you a hardware device at an additional cost.

External Assessment

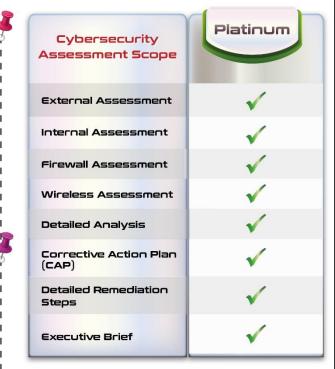
- Up to sixteen (16) externally accessible IP addresses scanned for vulnerabilities; all identified vulnerabilities validated to the extent possible
- Up to three (3) external domains tested for:
 -) Google Hacking Database entries
 - >> Domain Name Server misconfigurations
 - » Metadata in publicly accessible documents
- Up to two (2) websites/applications crawled/scanned for vulnerabilities under one (1) user role

Wireless Assessment

- We will send you a handheld device (along with instructions) that someone in your organization will utilize to assist us in this portion of the assessment
- Assessment of one (1) physical building to identify:
 - » Potentially roque Access Points/SSIDs
 - Den wireless access segmentation review, including testing of segmentation
 - Insecure authentication/encryption configurations including determination of Pre-Shared Key strength

Firewall Assessment

Review of up to two (2) supported firewall configurations to identify Operating System-related vulnerabilities and best practice adherence



Internal Assessment

- Up to sixteen (16) internal IP addresses scanned for vulnerabilities
 - All identified vulnerabilities validated to the extent possible
 - Up to three (3) class C network ranges scanned for:
 - Devices responding to "default" SNMP Community Strings
 - » Systems running up to three (3) database server types (i.e. MSSQL, MySQL, Oracle, etc.) that allow open access
 -) Identified systems are also tested for "default" credentials
- W Up to two (2) Active Directory domains tested for:
 -) Identity and Access Management (IAM) best practice adherence
 - » Password Policy best practice adherence
 - >> User account password strength
 - W USB device enumeration of systems registered in Active Directory (AD)
 - » Identification of currently connected devices



Gold

The Gold Level Assessment is organized into three (3) distinct areas.

You must be able to deploy a Virtual Machine image (in OVF format) supporting our defined specifications, such as an ESX server or VMWare Workstation installation. If you are unable to deploy our Virtual Machine image, we will send you a hardware device at an additional cost.

External Assessment

- Up to eight (8) externally accessible IP addresses scanned for vulnerabilities
- One (1) external domains tested for:
 - » Google Hacking Database entries
 - » Domain Name Server misconfigurations
 - >> Metadata in publicly accessible documents
- One (1) websites/applications anonymously crawled/scanned for vulnerabilities

Firewall Assessment

Review of one (1) supported firewall configuration to identify Operating System-related vulnerabilities and best practice adherence



Internal Assessment

- Up to eight (8) internal IP addresses scanned for vulnerabilities
- One (1) class C network ranges scanned for:
 - Devices responding to "default" SNMP Community Strings
 - Systems running one (1) database server type (i.e. MSSQL, MySQL, etc.) that allows open access
 - » Systems also tested for "default" credentials
- One (1) Active Directory domains tested for:
 -) Identity and Access Management best practice adherence
 - Password Policy best practice adherence User account password strength
 - USB device enumeration of systems registered in Active Directory



Silver

The Silver Level Assessment is divided into two (2) distinct areas.

Please note that the Cybersecurity Assessment – Silver would most likely not be considered a comprehensive cybersecurity assessment, as critical areas related to the internal network/system management are not included in the testing.

External Assessment

- Up to eight (8) externally accessible IP addresses scanned for vulnerabilities
- One (1) external domains tested for:
 - » Google Hacking Database entries
 - » Domain Name Server misconfigurations
 - Metadata in publicly accessible documents
- One (1) websites/applications anonymously crawled/scanned for vulnerabilities

Firewall Assessment

Review of one (1) supported firewall configuration to identify Operating System-related vulnerabilities



Periodic Cybersecurity Scanning

Performed Remotely!

- Periodic external cybersecurity scans (performed remotely)
 - » Up to thirty-two (32) externally accessible IP addresses scanned quarterly for vulnerabilities Report contains:
 - Detailed cybersecurity findings
 - >> Corrective Action Plan
 - » Detailed remediation information
- Periodic internal cybersecurity scans (performed remotely)
 - » Up to thirty-two (32) internal IP addresses scanned quarterly for vulnerabilities Report contains:
 - » Detailed cybersecurity findings
 - Corrective Action Plan
 - >> Detailed remediation information

Web Application Cybersecurity Assessment

- The scope of a Web Application Cybersecurity Assessment includes the following specific items:
 - » One (1) Web Application
 - » One (1) user role type to be utilized for testing
 - "Client" user account type
 - · Anonymous access will also be tested

General Goal(s)

- » Identify vulnerabilities related to the OWASP Top 10
- » Identify deviations from best practice

Out-of-scope

- » Underlying system vulnerability testing
- Web Application Firewall (WAP) and/or IDS/IPS evasion

Web Application Cybersecurity Assessment Methodology

Mapping

- » Analyzing HTTPS support
- » Analyze software configuration
- » Crawl the site/application
- » Application flow charting
- » Relationship analysis
- » Session analysis

Discovery

- » Automated Vulnerability Scanning
- » Information Leakage & Directory Browsing Discovery
- » Username Harvesting & Password Guessing
- Command Injection Discovery
- » Directory Traversal & File Inclusion Discovery
- » SQL Injection Discovery
- » Cross-site Scripting (XSS) Discovery
- » Cross-site Request Forgery (CSRF) Discovery
- » Session Flaw Discovery
- » Insecure Redirects & Forwards Discovery

Upon completion of the penetration test and receiving the initial report, you have 60 days to remediate any negative findings. After that time, ecfirst will review the remediation efforts and retest as necessary, and will provide an updated report.

CloudFirst Cybersecurity Assessment

CloudFirst Cybersecurity Assessment

ecfirst CloudFirst Cybersecurity Assessment Phases



Reporting and Documentation alyzed against policies, s

Data gathered is analyzed against policies, standard best practices, and vendor security bulletins to determine potential risks and exposures to the computing environment. The results of these cybersecurity scans/tests are to be used as the basis for determining the security posture and risk to organizational systems.

CIS Microsoft Azure Foundations Security Benchmark Assessment

With a CIS Microsoft Azure Foundations Security Benchmark Assessment, ecfirst provides prescriptive guidance for establishing a secure baseline configuration for Microsoft Azure. The scope is to establish the foundation level of security for anyone adopting Microsoft Azure Cloud. This benchmark is not a complete list of all possible security configurations and architecture.



CIS Cloud Management Foundations Benchmark Testing

- CIS is an internationally respected community of cybersecurity experts who provide best practice analysis and guidance for each security setting available for configuration in operational and application software across over 25 vendor product families.
- Thousands of layered, defined, and inherited security configurations are set across an organization's applications, operating systems, networks, and management systems. Where is over-protection breaking required functionality and where is under-protection exposing the organization to untenable risk? Worse, what combination of settings is doing both?
- ecfirst has created benchmark testing tools and scans based on a best practice balance between low risk and high functionality.
- All ecfirst Foundations tests ensure evaluation against Level 1 CIS recommendations. The configuration review determines the overall threat of potential compromise so that the business can make adjustments based on its organizational needs and risk tolerance.
- ecfirst maintains all the tools and knowledge needed to perform testing and reporting against the latest best practice recommendations defined in the benchmark. ecfirst benchmark testing reports provide all the information required to enable risk-informed and efficient business decision-making and strengthen the organization's resistance to cyber attacks.

CIS System Configuration Benchmark Assessment

CIS Benchmarks are best practices for the secure configuration of a target system. CIS Benchmarks are consensus-based, best practice security configuration guides developed and accepted by the government, business, industry, and academia. The ecfirst CIS System Configuration Benchmark Assessment scans the system to identify if the configuration is aligned with defined requirements.

CloudFirst Cybersecurity Assessment

CloudFirst Scope

The ecfirst CloudFirst Cybersecurity Assessment is organized into two (2) distinct areas of analysis:

External Assessment

> Up to 32 IP addresses

Internal Assessment

> An Active Directory (AD) domain is tested

Must be able to deploy a Virtual Machine image (in OVF format) supporting our defined specifications, such as an ESX server or VMWare Workstation installation. If you cannot deploy our Virtual Machine image, we will have to send you a hardware device at an additional cost.

CloudFirst Risk Status



Compliance Status Example Compliant Not Compliant N/A

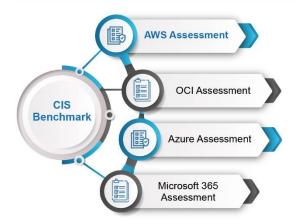
Area	Compliant	Not-Compliant	N/A
IAM	1	3	1
DefenderCloud	5	0	0
StorageAccounts	1	2	0
Database	0	0	5
Log Monitor	1	3	0
Networking 2		3	0
VM	2	0	0
KeyVault	0	0	4
AppService 0		0	7

External System High Risk Internal System High Risk Vulnerability Counts Web App High Risk Vulnerability Counts

CIS Benchmark Assessment

AWS Assessment

Advancing Cloud Security with CIS on AWS



Increased demand for remote work capabilities continues since 2020. Customer security in the cloud remains an important part of that growth. The Center for Internet Security (CIS), in conjunction with Amazon Web Services (AWS), has worked to enhance security in the already secure AWS Cloud since 2015.

The AWS Shared Responsibility Model makes it easy to understand the role cloud consumers play in protecting their unique AWS environments. CIS security best practices can help organizations achieve cloud security from the customer's side of the responsibility model.

Best practice configuration guides include the CIS AWS Foundations Benchmark, CIS Amazon Linux 2 Benchmark, and service-based guidance like the CIS Amazon Elastic Kubernetes Service (EKS) Benchmark. Guides contain prescriptive guidance to secure configurations for a subset of AWS services and account-level settings.

The ecfirst AWS Report includes,

- » Alignment with CIS Benchmark for AWS Foundations, Level 1 settings
- Correctly configured settings where further action is required to achieve full security benefits
- » Review of available versus used licenses and their impact
- » Analysis of findings, including strengths and prioritized areas for improvement

Configuration benchmark alignment areas include,

- » Identity and access management
- » Storage
- » Logging
- » Monitoring
- » Networking

Readiness Assessment

The AWS Cloud Readiness Assessment is your first step in organizational readiness for leveraging the cloud effectively. The assessment provides analysis and planning to identify, measure, and create business value using technology services and document current business objectives for cloud enablement.

The Phases for this assessment are:

- » Initiation: Capture the business context, including the general and specific drivers for the assessment.
- Preliminary Analysis: Establishes the architecture frameworks to be used and data-points to be collected. In this phase, we also identify sources of information, and named points-of-contact.
- » Discovery: Construction of a catalogue of applications, data, technologies, processes and organization structure, which is populated with multiple data points against each element.
- » Analysis: Interpretation and presentation of the assessment findings, typically expressed in terms of the fitness of each component and its sustainability and contribution to the overall risk profile.

CIS Benchmark Assessment

OCI Assessment

CIS Foundations Benchmark for Oracle Cloud



The recommendations in the new CIS Foundations Benchmark for Oracle Cloud include:

- » Encouraging the use of multi-factor authentication (MFA) for all console users
- Restricting remote administration ports outside of the enterprise network
- Configuring logging and notifications to aid in identifying anomalous behavior and investigate potential compromise

The CIS Oracle Cloud Infrastructure Foundations Benchmark provides prescriptive guidance to securely configure an Oracle Cloud account. The step-by-step checklist includes detailed recommendations for Identity and Access Management, Networking, and Logging and Monitoring. It's available as a free download to public and private organizations worldwide.

The CIS Oracle Cloud Infrastructure (OCI) Foundations
Benchmark provides prescriptive guidance for establishing a
secure baseline configuration for the OCI environment. The
scope of this benchmark is to establish a base level of security
for anyone utilizing the included OCI services.

While all organizations require a prudent level of cybersecurity these days, it is recommended for organizations who use OCI meet the CIS Benchmark for OCI Foundations at Level 1.

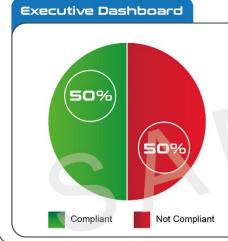
- Review of compliance with each "Level 1" item contained in the Benchmark
- » Report detailing each item contained in the assessment along with your Compliant/Non-Compliant status

The ecfirst OCI Report includes,

- Alignment with CIS Benchmark for OCI Foundations, Level 1 settings
- Correctly configured settings where further action is required to achieve full security benefits
- » Review of available versus used licenses and their impact
- Analysis of findings, including strengths and prioritized areas for improvement

Configuration benchmark alignment areas include,

-) Identity and access management
- » Network configurations
- » Log management
- Object storage
- » Asset management

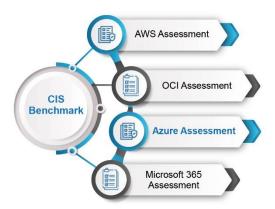


Area	Total # of CAP Items	Not-Compliant CAP Items	Compliant
IAM	12	3	9
Networking	5	2	3
LogMon 17		12	5
Object Storage 2		1	1
Asset Management	2	1	1
Total	38	19	19

CIS Benchmark Assessment

Azure Assessment

CIS Microsoft Azure Foundations Benchmark v1.3.0 Highlights



The CIS Foundations Benchmark provide prescriptive guidance for various areas including: Identity and Access Management (IAM), database services, logging and monitoring, networking, virtual machines, and Azure's Security Center and Storage Accounts. Key changes to this new release include:

- » Reference links in multiple recommendations to the CIS Azure Security Benchmark v2
- Multiple recommendations for the change of Advanced Data Security to Azure Defender New recommendations for additional Azure Defender bundles
- » Multiple activity log alert console remediation steps
- » Removal of multiple recommendations for features that have been deprecated

Azure Virtual VM Assessment

The ecfirst Azure VM Assessment describes:

- » Azure Readiness: Whether servers are suitable for migration to Azure
- Monthly Cost Estimation: The estimated monthly compute and storage costs for running the VMs in Azure
- » Monthly Storage Cost Estimation: Estimated costs for disk storage after migration

The ecfirst Azure Report includes,

- » Alignment with CIS Benchmark for Azure Foundations, Level 1 settings
- Correctly configured settings where further action is required to achieve full security benefits
- » Review of available versus used licenses and their impact
- » Analysis of findings, including strengths and prioritized areas for improvement

Configuration benchmark alignment areas include,

- Identity and access management
- » Data storage
- » Logging functions
- System monitoring
- System networking

Executive Dashboard



Area	Compliant	Non-Compliant	N/A
IAM	1	1	0
SecCenter	11	8	0
StorageAccounts	2	1	0
Database	2	9	8
Log Monitor	9	7	0
Networking	3	2	0
VM	1	2	0
Other	1	2	1
AppService	2	3	0

Pen Test

External Penetration Test



- The External Penetration Test is "pre-scoped" to the following general criteria:
 - » A "grey box" test provides the following:
 - IP address ranges owned/operated
 - All domains owned/associated with up to sixteen (16) external systems
 - » Testing takes place across 5 business days, primarily during business hours

Primary Goal

- Primary goal is to gain unauthorized elevated access to an externally accessible system
 - » A secondary goal is to gain unauthorized access to other systems utilizing the primary goal system

Out-of-Scope

Denial of Service attacks

The External Penetration Test methodology is organized into three (3) distinct phases:

Reconnaissance

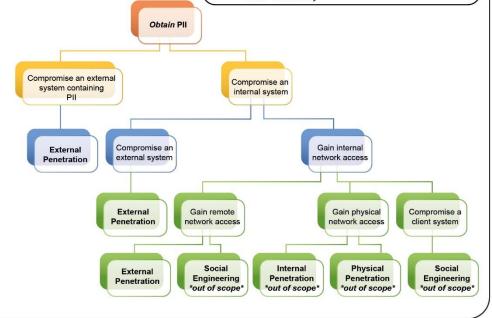
- » Client personnel and cultural information
- » Client business terminology
- » Technical infrastructure information

Scanning

- » Network discovery
- » Network port and service identification
- » Cybersecurity identification
- >> Enumeration

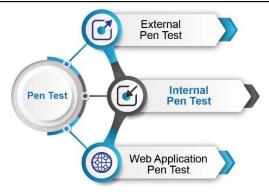
Exploitation

- Password cracking
- » Discovered credential usage
- Manual and automated cybersecurity validation
- > Phishing attempts
 - For credential gathering
 - For exploitation delivery
- » Privilege escalation
- Additional tool installation
- Data discovery



Pen Test

Internal Penetration Test



- The Internal Penetration Test is "pre-scoped" to the following general criteria:
 - » A "grey box" test provides the following:
 - Domain User account configured as a "regular" employee
 - Remote access to the internal network via a virtual machine or physical device provided by ecfirst
 - » Not all vulnerabilities identified will be validated and/or exploited
 - Only those deemed most likely to assist in reaching the defined Goal will be further validated and exploited

Primary Goal

- » Primary goal is to gain Domain Administrator level access on the internal network.
 - Secondary goal is to gain unauthorized access to sensitive data

Scanning

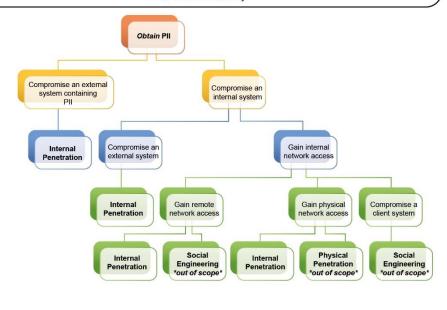
- » Network discovery
- » Network port and service identification
- » Cybersecurity identification
- » Enumeration

Out-of-Scope

- » End-user attacks (i.e. phishing, man-in-the-middle, client-side exploitation, etc.)
- » Denial of Service attacks

Exploitation

- » Password cracking
- » Discovered credential usage
- » Manual and automated cybersecurity validation
- » Privilege escalation
- » Additional tool installation
- » Data discovery



External Pen Test

Pen Test

Web Application Penetration Test

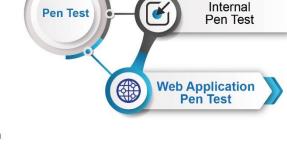
- A Web Application Penetration Test includes the following specific items:
 - » One (1) Web Application
 - » One (1) user role type to be utilized for testing:
 - "Client" user account type
 - Anonymous access will also be tested

General Goal(s)

- » Gain anonymous access to authenticated sections of the application
- » Gain access to other client data within the application

Out-of-Scope

- » Underlying system cybersecurity exploitation
- » System account creation
- >> Web Application Firewall and/or Intrusion Detection
- » System/Intrusion Protection System evasion



The Web Application Penetration Test methodology is organized into four (4) distinct phases,

Reconnaissance

» Technical infrastructure information

Discovery

- » Automated cybersecurity scanning
- Information leakage and directory browsing discovery
- » Username harvesting and password guessing
- » Command injection discovery
- » Directory traversal and file inclusion discovery
- » SQL injection discovery
- » Cross-site scripting discovery
- » Cross-site Request Forgery discovery
- Session flaw discovery
- » Insecure redirects and forwards discovery

Mapping

- » Network discovery
- » Network port and service identification
- » Analyzing HTTPS support
- » Identify virtual hosting and load balancers
- » Analyze software configuration
- » Spider the site/application
- » Application flow charting
- » Relationship analysis
- » Session analysis

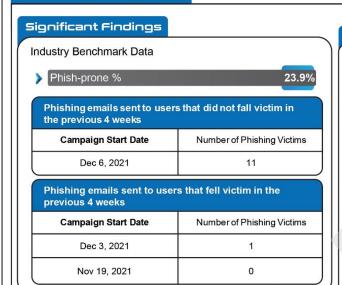
Exploitation

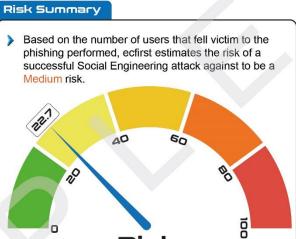
- » Exploit identified enumeration flaws
- » Exploit identified bypass flaws
- » Exploit identified injection flaws
- » Exploit identified session flaws
- » Chain exploits together, pivot to other systems, data exfiltration, raid, etc.

Social Engineering

- Customized phishing campaigns to identify % of phish-prone users
- Targeted end user security awareness training to reduce risk from phish-prone users
- Development of tailored phishing, vishing, pretexting, CEO Fraud cam paigns to understand business risk
- Detailed reports that describe findings from social engineering campaigns
- Access to security awareness emails for compliance with mandates such as HIPAA, CCPA, GDPR

Executive Dashboard

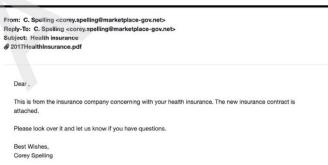




Findings

ecfirst was successful in the Social Engineering campaign by enticing 15 users to open and interact with phishing emails we sent. Users that interacted with the emails were then presented information informing them they had fallen victim to a phishing test and identified "red flags" in the email they received that could have indicated the email was not legitimate. Had the users interacted with real phishing emails, the attackers could potentially have performed a number of malicious actions, such as collecting sensitive data or delivering malware to the user.

Sample email sent to user:



Performed an Online Tracking Assessment?

OCR Mandate for HIPAA Compliance

Objectives

- Identify 3rd-party resources across websites.
- Evaluate 3rd-party resources using fingerprinting or tracking technology.
- Establish actionable recommendations.
- Ensure HIPAA compliance with OCR guidance for online tracking.



Online Tracking HIPAA Compliance

Regulated entities are not permitted to use tracking technologies in a manner that would result in impermissible disclosures of PHI to tracking technology vendors or any other violations of the HIPAA Rules.

OCR Guidance

Project Scope

Crawl the in-scope websites to identify calls to 3rd-party resources.

Review 3rd-party resources to identify those implementing tracking or fingerprinting technologies. Provide report on websites employing tracking or fingerprinting technologies, including identifying the specific 3rd-party resources on each crawled page potentially providing those features.

The ecfirst HIPAA Ecosystem











Virtual ISO & Infosec Staffing Program



Virtual ISO

As a Virtual ISO (VISO), ecfirst will provide the following services during the engagement:

- Consultation and advice to leadership with respect to the strategic management of the information security program.
- · Guidance and counsel to the CEO and key members of the leadership team in defining objectives for information security.
- Work with leadership to oversee the formation and operations of a company-wide information security organization that is organized toward a common goal in information security and compliance.
- Develop and oversee remediation efforts to facilitate compliance with security regulations.
- Manage institution-wide information security governance processes and facilitate the establishment of an information security program and project priorities.
- Coordinate and review incident response procedures.
- Establish annual and long-range security and compliance goals, define security strategies, reporting mechanisms and program services;
 and create a roadmap for continual program improvements.
- Stay abreast of information security issues and regulatory changes at the state and national level and communicate to leadership on a regular basis about those topics.
- Facilitate development, design, and implementation of proposed updates, enhancements, and new functionality to the information systems so that privacy and security is maintained.
- Identify emerging privacy and security practices and technologies to be assimilated, integrated, and introduced within the organization.
- · Support the establishment of company infrastructure to support and guide individual divisions/departments/sites in IT efforts
- Assess new security threats and vulnerabilities and make recommendations on appropriate avoidance and mitigation strategies.

InfoSec Service Staffing Program

The InfoSec Service Staffing Program provides our customers with options for short term or long term information security or compliance professionals, including:

- Security Analyst
- Security Professional
- Compliance Professional
- Senior Compliance Analyst
- Senior Cybersecurity Professional

Duration of contract can range from one month, to three months or longer.



Discuss your InfoSec Staff augmentation requirements with ecfirst. We will create a cost effective solution to address your priorities.

Biomed & Internet of Things (IoT) Cybersecurity Readiness



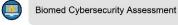
Biomed Facts: FBI

- The number of internet-connected medical devices is projected to grow from 20 billion in 2018 to 50 billion in 2020.
- Deficient security capabilities, legacy operating systems, difficulties in patching vulnerabilities and a lack of security awareness are significant risks to both medical devices themselves and the networks to which they connect.
- Unsecure or poorly secured medical devices can leave networks open to Distributed Denial of Service (DDoS) attacks.

Source: FBI Alert I-101717a-PSA

Myth	Fact
The FDA is the only federal government agency responsible for the cybersecurity of medical devices.	The FDA works closely with other federal government agencies, such as the U.S. Department of Homeland Security (DHS), but also works with members of the private sector, medical device manufacturers, health care delivery organizations, security researchers, and end users to increase the security of critical cyber infrastructure.
Medical device manufacturers can't update medical devices for cybersecurity.	Medical device manufacturers can always update a medical device for cybersecurity. In fact, the FDA does not typically need to review medical device updates implemented solely to strengthen cybersecurity.
The FDA tests medical devices for cybersecurity.	The FDA does not conduct premarket testing for medical products. Testing is the responsibility of the medical product manufacturer.

ecfirst Biomed & IoT Cybersecurity Services Biomed Risk Assessment (HIPAA, HITRUST®, NIST Cybersecurity Framework)





Biomed Cybersecurity Remediation

Complimentary seat in industry leading Certified Cyber Security ArchitectSM (CCSASM) program

Knowledge transfer throughout the biomed cybersecurity assessment

Unconditional Guarantee. No Questions! ecfirst will not consider an engagement complete unless client is 100% satisfied

Biomed Business Risks

- Disruption of patient care
- Loss of Protected Health Information (PHI) and Personally Identifiable Information (PII)

Biomed & IoT Cybersecurity Readiness

The ecfirst Biomed and IoT Cybersecurity Report includes an Asset Inventory, which identifies specific biomed device information such as:

- IP Address
- Hostname (if resolvable or successfully authenticated)
- Operating System (if discoverable or successfully authenticated)
- Open Ports
 - Potentially Active Services
- Installed Software

Biomed & Internet of Things (IoT) Cybersecurity Readiness



Securing IoT & Biomed Devices

- Equipment Management
- Patch Management
- Staff Security Training
- Vulnerability Scanning
- Risk Management
- RFP Language to Include Security Features
- Device Integration Test Lab

Biomed Devices

- Pacemakers
- Personal Fitness Devices
- Drug Pumps
- Medical Ventilators
- Mobile Medical Systems
- Medical Monitors
- In-Home Monitors
- Medical Imaging Machines

Training & Certification



- Examine how to establish a cybersecurity program based on the NIST Cybersecurity Framework.
- Step through key areas that must be addressed in a credible incident response plan.
- Walk through core components, organization and CMMC Maturity Levels. Examine CMMC domains and CMMC capabilities required for organizations.

ecfirst Biomed Cybersecurity Checklist

- Cybersecurity Framework Determine the cybersecurity framework that will establish the foundation for your security program requirements for medical IoT devices.
- Policy Develop a cybersecurity policy specific to medical IoT devices. Ensure the policy is reviewed by associated and impacted departments/business units, approved by senior leadership, and communicated to the workforce.
- Security Risk Assessment Ensure medical IoT devices are within the scope of enterprise cybersecurity risk assessment exercises. Perform a vulnerability assessment to determine medical IoT device security gaps. Examine the security architecture and identify opportunities to possibly segregate medical IoT devices (i.e. determine application of segregation for medical IoT devices).
- Business Associate Agreements (BAA) Review third-party vendors (business associates) and their security practices to ensure HIPAA, FDA, and other mandates are appropriately addressed.
- Configuration Management Ensure each type of medical IoT device is configured consistently, and addresses the appropriate security capabilities to secure PHI and PII.
- Encryption Examine options to encrypt PHI and PII stored, processed or transmitted by medical IoT devices.
- Risk Management Based on the findings of the risk assessment, establish a plan for risk management of medical IoT devices. Ensure formal remediation is performed on a regular schedule (e.g. monthly).









Healthcare Industry's First & Leading HIPAA Credential

Register Now!



Who is it for?

- **X** Compliance Officers
- Privacy and Security Officials
- Healthcare Executives
- Senior Clinicians
- * Chief Information Officers (CIOs)
- Legal Professionals & IT Professionals



What's in it for you?

- Analyze the latest updates in HIPAA Privacy, HIPAA Security and HITECH Breach mandates
- Examine OCR HIPAA settlements to understand the bar for HIPAA compliance
- Review HIPAA compliance challenges and best practices for Covered Entities and Business Associates
- ★ Understand HIPAA Safe Harbour











The Industry's First Program Focused on Compliance & Cybersecurity Mandates





Who is it for?

- X Compliance Professionals & Managers
- * Information Security Officers
- **Security Practitioners**
- * Privacy Officers
- Internal Compliance Auditors
- Senior IT Professionals

What's in it for you?

- Step through industry standards such as PCI DSS, GDPR, CCPA, CPRA, ISO 27001, and HIPAA
- Evaluate America's standard for compliance: NIST guidance and special publications
- Understand U.S. state government information security mandates (e.g. Texas, California, New York, and others)
- Explore best practices to build a credible compliance and cybersecurity program













An Executive Cybersecurity Program

Purchase Now!



Who is it for?

- Information Security Officers
- Security Practitioners
- Privacy Officers
- Senior IT Professionals
- Compliance Professionals & Managers

Mary Johnson La Hazie e CLSASSI (COD)

What's in it for you?

- Examine how to establish a cybersecurity program based on the NIST Cybersecurity Framework
- Learn how to establish a credible Ransomware Readiness Program based on NIST Standards
- Walk through core components, organization and CMMC Levels
- Review encryption implementation across the enterprise to mitigate business risk
- * Examine NIST guidance for AI Risk Management

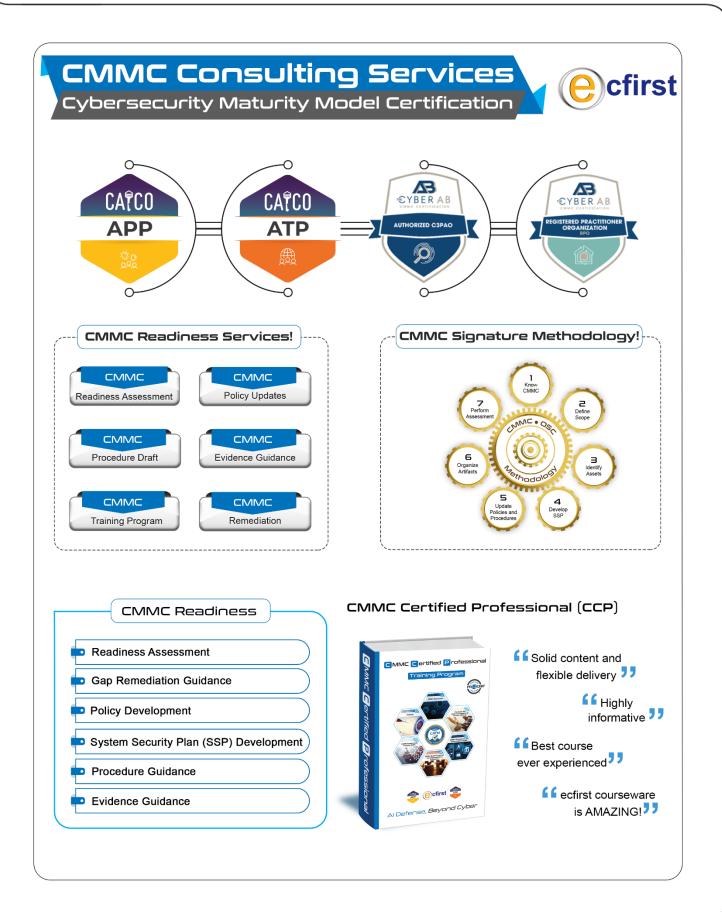
Prepared me for exam
Privileged to participate
Excellent introduction to NIST
The training was point on for the core material

CICION References

This has been a great training experience
Clear concise and to the point
Well organized and informative

CMMC was well covered

Great course!







Summary

This CMMC Certified Professional (CCP) exam will verify a candidate's knowledge of the Cybersecurity Maturity Model Certification (CMMC), relevant supporting materials, and applicable legal and regulatory requirements to protect Federal Contract Information (FCI) and Controlled Unclassified Information (CUI). This CCP exam will also assess the candidate's understanding of the CMMC ecosystem. A passing score on this exam is a prerequisite to CMMC Certified Assessor (CCA) and CMMC Certified Instructor certifications.

Authoritative Source

The Department of Defense (DoD) is the authoritative source for CMMC documentation.

https://dodcio.defense.gov/CMMC/

CMMC Certified Professional (CCP)



Prerequisites

- College degree in a cyber or information technical field or 2+ years of related experience or education; or 2+ years of equivalent experience (including military) in a cyber, information technology, or assessment field.
- Suggested CompTIAA+ or equivalent knowledge/experience.
- Complete CCP Class offered by a Licensed Training Provider (LTP).
- Pass DoD CUI Awareness Training no earlier than three (3) months prior to the exam.
 - https://securityhub.usalearning.gov/index.html

All Content is Digital



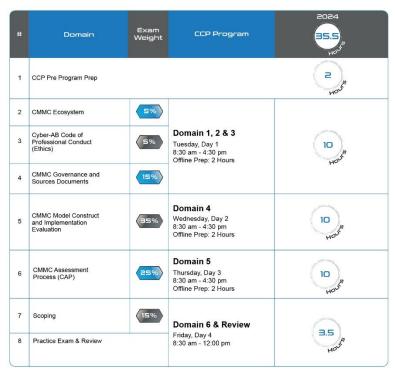
Intended Audience

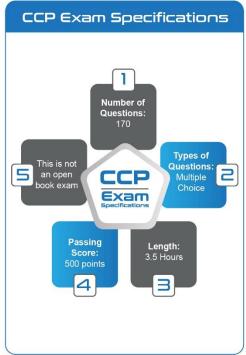
- Employees of Organizations Seeking CMMC
 Certification (OSC)
 - IT and Cybersecurity Professionals

 - Legal and Contract Compliance Professionals
 - Management Professionals
- Cybersecurity and Technology Consultants
- Federal Employees
- ♦ Candidate CMMC Assessment Team Members















Summary

This CMMC Certified Assessor (CCA) exam will verify a candidate's readiness to perform as an effective Certified Assessor of Organizations Seeking Certification (OSC) at CMMC Level 2. A passing score on this CCA exam is a prerequisite to a CMMC Lead Assessor designation.

Authoritative Source

The Department of Defense (DoD) is the authoritative source for CMMC documentation.

https://dodcio.defense.gov/CMMC/

CMMC Certified Assessor (CCA)



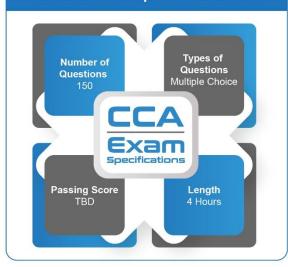
Intended Audience

- CCP seeking to advance to CCA.
- CMMC Certified Instructors who wish to teach the CCA course.

All Content is Digital



CCA Exam Specifications







#	Domain	Exam Weight	CCA Program	35.5 HOT
1	CCA Pre Program Prep			Hay
	Welcome Introductions, About the Portal and Pre Introduction	-Quiz	Domain 0, 1, 2	
2	Evaluating OSC Against CMMC Level 2 Requirements	15%	Tuesday, Day 1 8:30 am - 4:30 pm Group Exercises: 8 40 Minutes Offline Prep: 2 Hours	10
3	CMMC Level 2 Assessment Scoping	20%	·	
4	CMMC Assessment Process (CAP)	25%	Domain 3 Wednesday, Day 2 8:30 am - 4:30 pm Group Exercises: 7 35 Minutes Offline Prep: 2 Hours	House
5	Assessing CMMC Level 2 Practices	40%	Domain 4 Thursday, Day 3 8:30 am - 4:30 pm Group Exercises: 10 60 Minutes Offline Prep: 2 Hours	HOUP
6	Practice Exam & Review	,	Review and Final Quiz Friday, Day 4 8:30 am - 12:00 pm	3.5 Hours





Mr. Ali Pabrai, a global Al cybersecurity and compliance expert, is the chairman and chief executive of ecfirst. His career was launched with the U.S. Department of Energy's nuclear research facility, Fermi National Accelerator Laboratory. He has served as vice chairman and in several senior officer positions with NASDAQ-based firms.

Mr. Pabrai has led numerous engagements worldwide for ISO 27001, PCI DSS, NIST, CMMC, GDPR, CCPA, FERPA, HITRUST CSF and HIPAA/HITECH. Mr. Pabrai served as an Interim CISO for a health system with 40+ locations.

Mr. Pabrai has presented passionate briefs to tens of thousands globally. including the USA, United Kingdom, France, Taiwan, Singapore, Canada, India, UAE, Saudi Arabia, Philippines, Japan, Ireland, Bahrain, Jordan, South Africa, Egypt, Ghana and other countries.

He is a globally renowned speaker who has been featured as a keynote as well as moderated cybersecurity conferences. Mr. Pabrai is the author of several published works.

Mr. Pabrai was appointed as a member of the select HITRUST CSF Assessor Council (Al Committee). Mr. Pabrai is a proud member of the InfraGard (FBI).







We have had the true pleasure of working with Ali Pabrai at conferences all over the world during the past few years - with one unanimous word that keeps resounding among audiences and staff alike - AWFSOMF!

Michael Mach Conference Program Manager | ISACA





Deep Compliance Experience

Pabrai's presentation style is engaging, and he encourages questions and discussions. I would recommend him for future presentations and trainings

Josh More | Cyber Sector Chief | Iowa FBI InfraGard

On behalf of the Idaho InfraGard (FBI), I would like to thank Pabrai for presenting at our conference. Pabrai is the kind of speaker you want to bring to executives and staff. He says it in a simple, no nonsense way, in a manner that everyone can

Rachel Zahn | President | InfraGard (FBI) | Idaho Alliance



You delivered a fantastic presentation and we all felt your passion for cyber security.

James E Lamadrid | Supervisory Special Agent Federal Bureau of Investigation (FBI) | Cyber Task Force

Thank you Pabrai. Your enthusiasm and relevance for the Information Security material you presented at our combined Infragard (FBI) conference in Idaho Falls was very well received and pertinent to both our chapter as an organization and the constituents in attendance.

As a government employee, I appreciated the simplified insight of highlighting the importance of compliance and funding compared to information security success beyond qualitative metrics. I heard many times over that your specific information with measurable results made your material directly relevant to individuals, businesses and organizations. Thanks again and I hope you are able to join us again in the future.

Clark Harshbarger FBI









Corporate Office

295 NE Venture Drive Waukee, IA 50263 United States

Email: info@ecfirst.com













