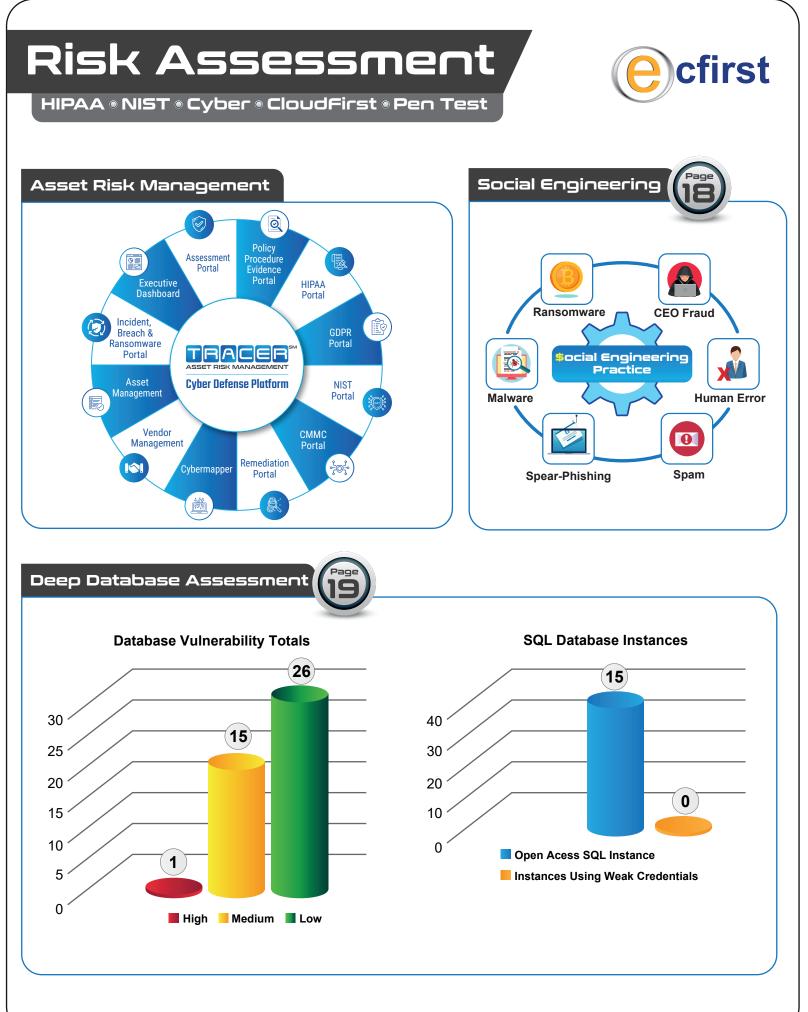


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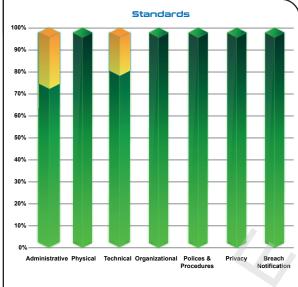


# Risk Analysis

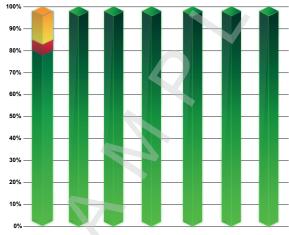
Every organization must conduct a thorough and comprehensive assessment of the potential risk and vulnerability to the confidentiality, integrity and availability of all PII.

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

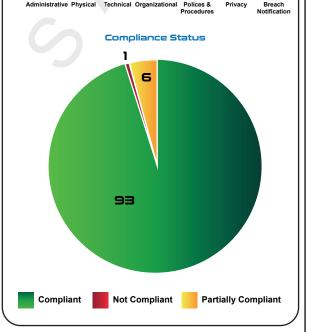
Executive Dashboard







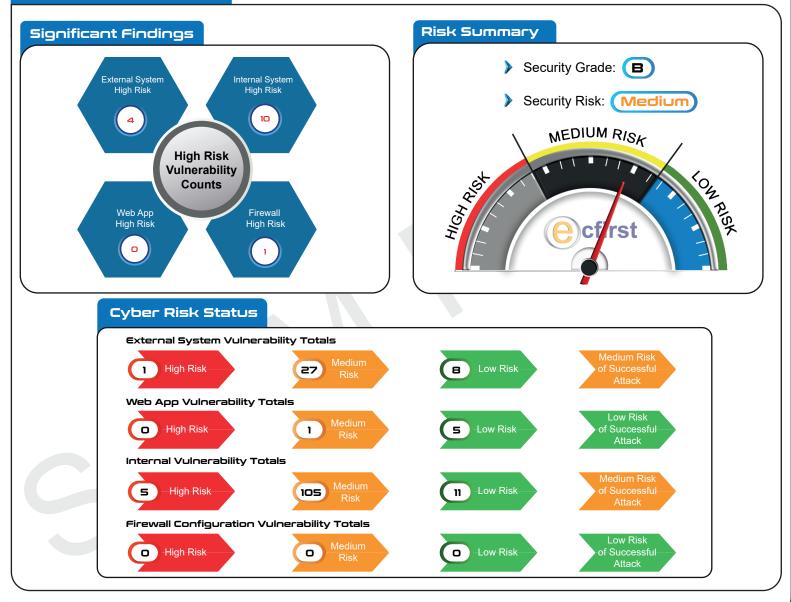
Administrative Physical Technical Organizational Polices & Procedures Privacy



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.

Cybersecurity Assessment Scope	Titanium	Platinum	Goid	Silver	Bronze
External Assessment	🗸 Customized	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Internal Assessment	🗸 Customized	$\checkmark$	$\checkmark$	×	×
Firewall Assessment	🗸 Customized	$\checkmark$	$\checkmark$	$\checkmark$	X
Wireless Assessment	🗸 Customized	<ul> <li>✓</li> </ul>	X	X	X
Detailed Analysis	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X
Corrective Action Plan (CAP)	$\checkmark$	$\checkmark$	<ul> <li>✓</li> </ul>	×	×
Detailed Remediation Steps	$\checkmark$	$\checkmark$	<ul> <li>✓</li> </ul>	×	×
Executive Brief	$\checkmark$	$\checkmark$	×	×	×

#### **Executive Dashboard**



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### 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
  - - >> 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



Titanium

Customized

Customized

Customized

Customized

- External Assessment
- Internal Assessment
- Firewall Assessment
- Wireless Assessment
- Detailed Analysis
- Corrective Action Plan (CAP)
- Detailed Remediation Steps
- Executive Brief

### 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
- X 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

### 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
- X 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 rogue Access Points/SSIDs
  - >> Open 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
- X 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
  - >> 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

Cybersecurity Assessment Scope	Gold
External Assessment	$\checkmark$
Internal Assessment	$\checkmark$
Firewall Assessment	$\checkmark$
Wireless Assessment	X
Detailed Analysis	$\checkmark$
Corrective Action Plan (CAP)	$\checkmark$
Detailed Remediation Steps	$\checkmark$
Executive Brief	X

### Internal Assessment

- Up to eight (8) internal IP addresses scanned for vulnerabilities
- X 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

X 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
- X 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

Cybersecurity Assessment Scope	Silver
External Assessment	$\checkmark$
Internal Assessment	×
Firewall Assessment	$\checkmark$
Wireless Assessment	×
Detailed Analysis	$\checkmark$
Corrective Action Plan (CAP)	×
Detailed Remediation Steps	X
Executive Brief	×

### 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
- X 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

- X 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 Phases ecfirst CloudFirst Cybersecurity Assessment Phases Scope and Preparation CloudFirst Cybersecurity Assessment Discovery and Cybersecurity Analysis

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.



### Compliance Status Example



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

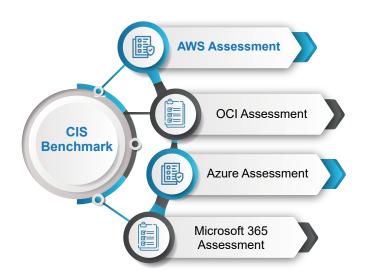


### CloudFirst Risk Status

### **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.

Readiness Assessment

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

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:

- Description Sector Sector Contraction (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

50%	50%
Compliant	Not Compliant

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

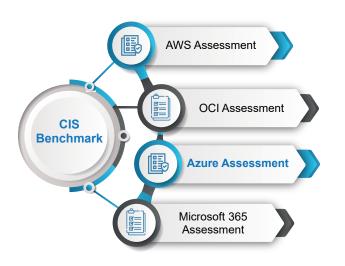
### **Executive Dashboard**

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### **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

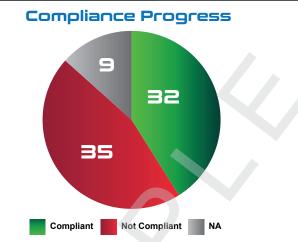
#### The ecfirst Azure Report includes,

- 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**



Агеа	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**

# Pen Test Veb Application Pen 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

X Denial of Service attacks

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

### Reconnaissance

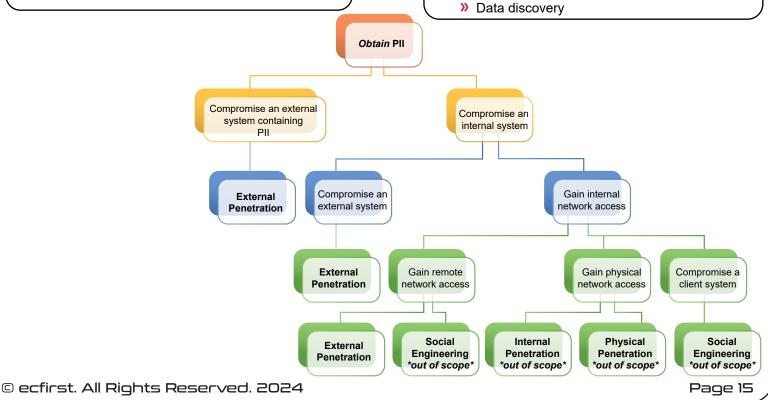
- » Client personnel and cultural information
- >> Client business terminology
- » Technical infrastructure information

### Scanning

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

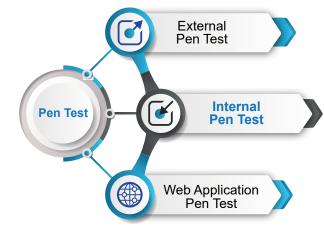
### Exploitation

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



### 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

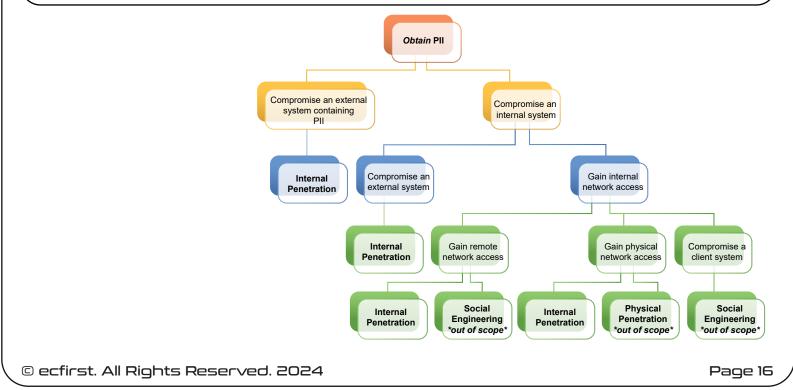
- » Network discovery
- » Network port and service identification
- » Cybersecurity identification
- » Enumeration

### 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



### Pen Test

### Web Application Penetration Test

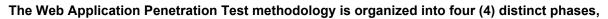
- X A Web Application Penetration Test includes the following specific items:
  - » One (1) Web Application
  - » One (1) user role type to be utilized for testing:
    - "Client" user account type
    - Anonymous access will also be tested

### 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



#### 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

Pen Test

- » Network discovery
- » Network port and service identification
- » Analyzing HTTPS support
- » Identify virtual hosting and load balancers

External Pen Test

Internal

Pen Test

Web Application Pen Test

- » 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
- X Targeted end user security awareness training to reduce risk from phish-prone users
- X 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

#### **Significant Findings**

Industry Benchmark Data

23.9%		
rs that did not fall victim in		
Number of Phishing Victims		
11		
Phishing emails sent to users that fell victim in the previous 4 weeks		
rs that fell victim in the		
Number of Phishing Victims		

#### **Risk Summary**

 Based on the number of users that fell victim to the phishing performed, ecfirst estimates the risk of a successful Social Engineering attack against to be a Medium risk.



#### 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:

	C. Spelling <corey.spelling@marketplace-gov.net></corey.spelling@marketplace-gov.net>
	To: C. Spelling <corey.spelling@marketplace-gov.net></corey.spelling@marketplace-gov.net>
	t: Health insurance
2017	HealthInsurance.pdf
Dea	ar,
Thi	s is from the insurance company concerning with your health insurance. The new insurance contract is
atta	iched.
Ple	ase look over it and let us know if you have questions.
Bes	st Wishes,
	rey Spelling

### The ecfirst Deep Database Instance Assessment checks for and reports on:

- >> Known vulnerabilities on the database instance
- Configuration issues based on standards such as NIST, Center for Internet Security (CIS) & Defense Information Systems Agency (DISA) - Security Technical Implementation Guide (STIG)
- Identification and Access Control issues »
- Combinations of settings that could lead to escalation of privilege attacks, data leakage, Denial-of-Service (DoS), or the » unauthorized medication of data

### Executive Dashboard

### Overall Risk: ( High

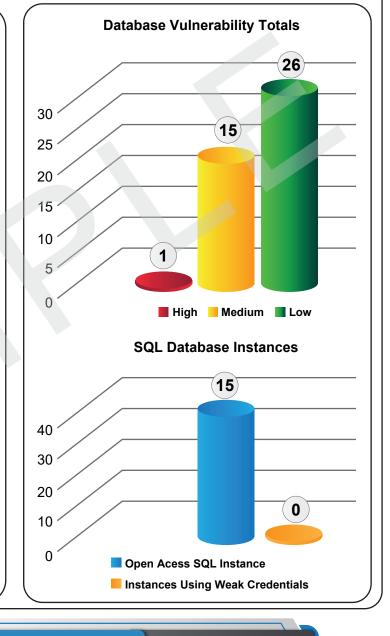


ecfirst scanned specific subnets to identify systems running MSSQL databases that allow open access; by open access we mean access to the login prompt. ecfirst was able to identify 37 database instances that allow open access. This allows an attacker the opportunity to attempt unauthorized logins to the database, as well as attempt to exploit any vulnerabilities associated with the SQL instance.

ecfirst also attempted to login to the identified SQL servers with default or easy to guess credentials. No database instances were discovered using default or easy to guess credentials.

A select database instance was further scanned for known vulnerabilities and misconfiguration issues. During this assessment, ecfirst identified a total of 42 vulnerabilities on the in-scope systems. Within this total number of vulnerabilities, 42 unique vulnerabilities were identified; 16 of these unique vulnerabilities are rated as a High or Medium risk.

Issue	Impact
Permission on registry extended proc	If not configured properly, the registry extended stored procedures can be used to read or write sensitive information from the registry.



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