

## ATTACK SURFACE MANAGEMENT (ASM)







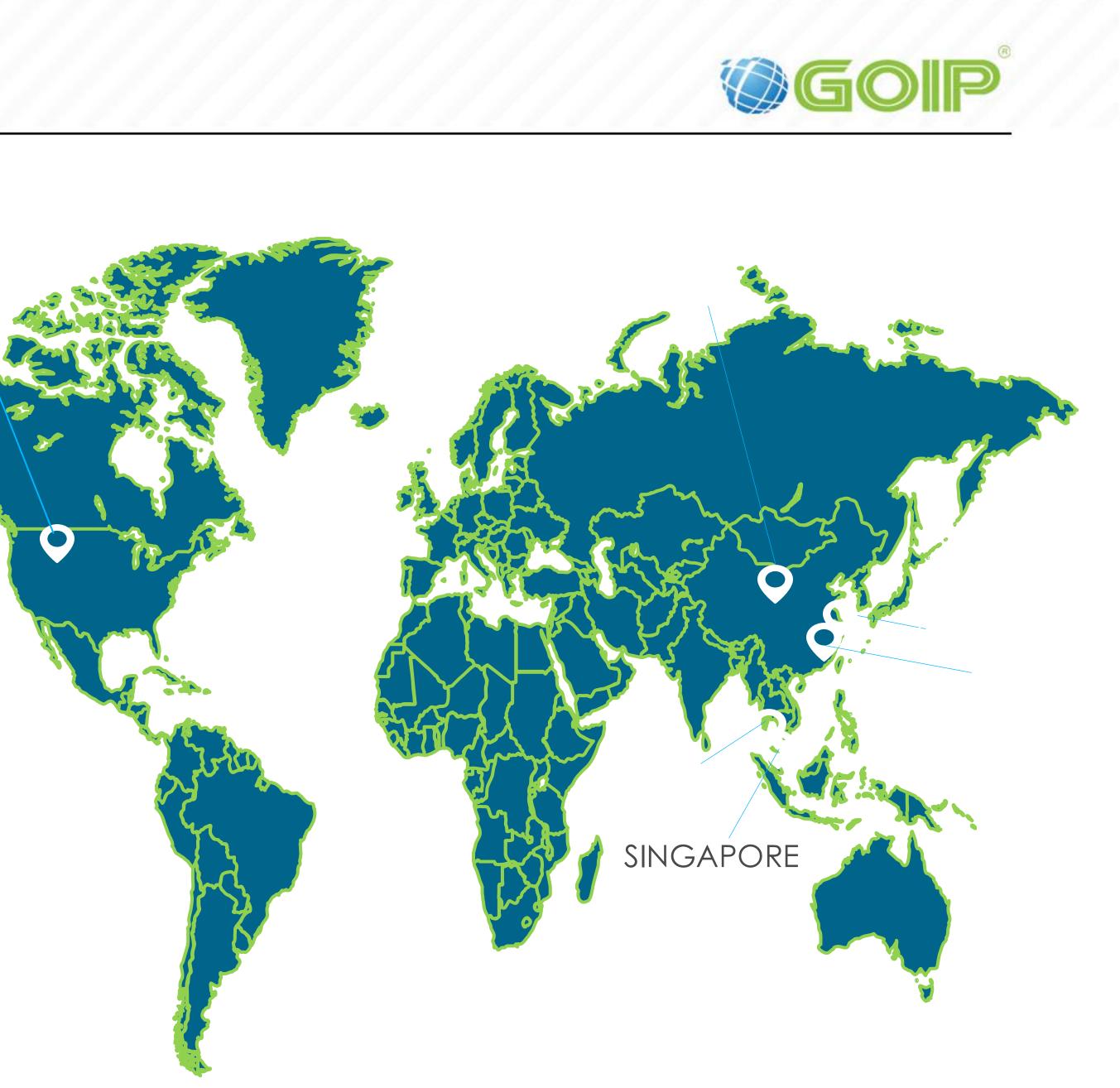
GOIP Group - A Leading Network and System Integration Service Provider in Hong Kong & Mainland China.

USA

Our team is built-up with certified engineers and professional project managers in providing innovative solutions and to solve mission critical tasks in order to simplify customers' operations.

## EDGENETIC



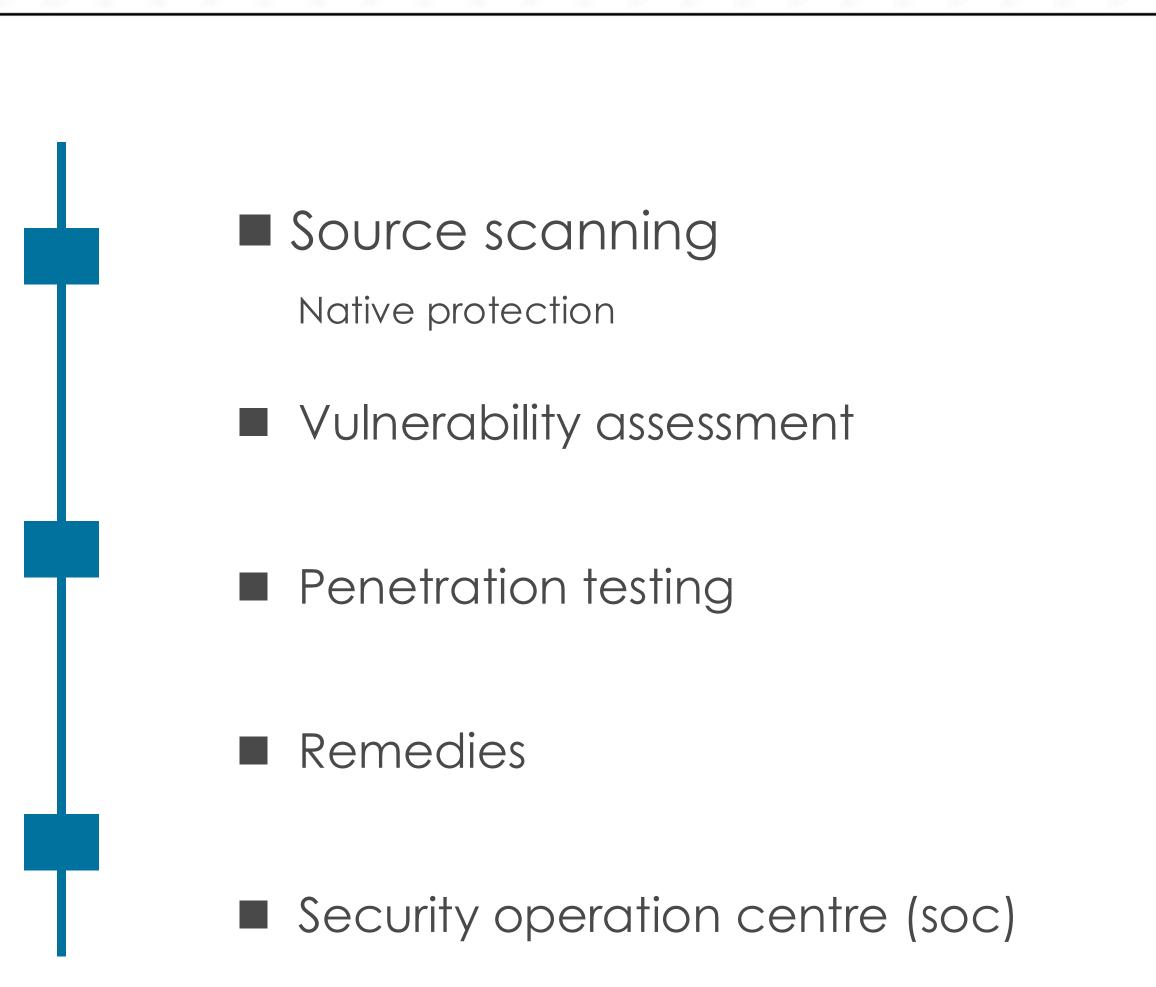


#### ATTACK SURFACE MANAGEMENT(ASM)

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#### **Consequences of Company Date Leakage**

#### CYBERATTACK NEWS (2023)

#### sky news · 1 天 · on MSN

#### Royal Family's official website targeted in cyber attack

The royal website has been hit by a cyber attack, a royal source has told Sky News. The denial of service attack, or DDoS, is ...

BLEEPINGCOMPUTER · 6 天

#### Sony investigates cyberattack as hackers fight over who's responsible

Sony says that it is investigating allegations of a cyberattack this week as different hackers have stepped up to claim ...

MARKETS · 13 小時

#### Clorox Shares Could Rally As Operations Revive After Cyberattack, Says Bullish Analyst

Clorox Co (NYSE:CLX) continues to estimate the financial impact of a crippling cyberattack. The company's shares spiked on ...

















Loss of Customer Trust



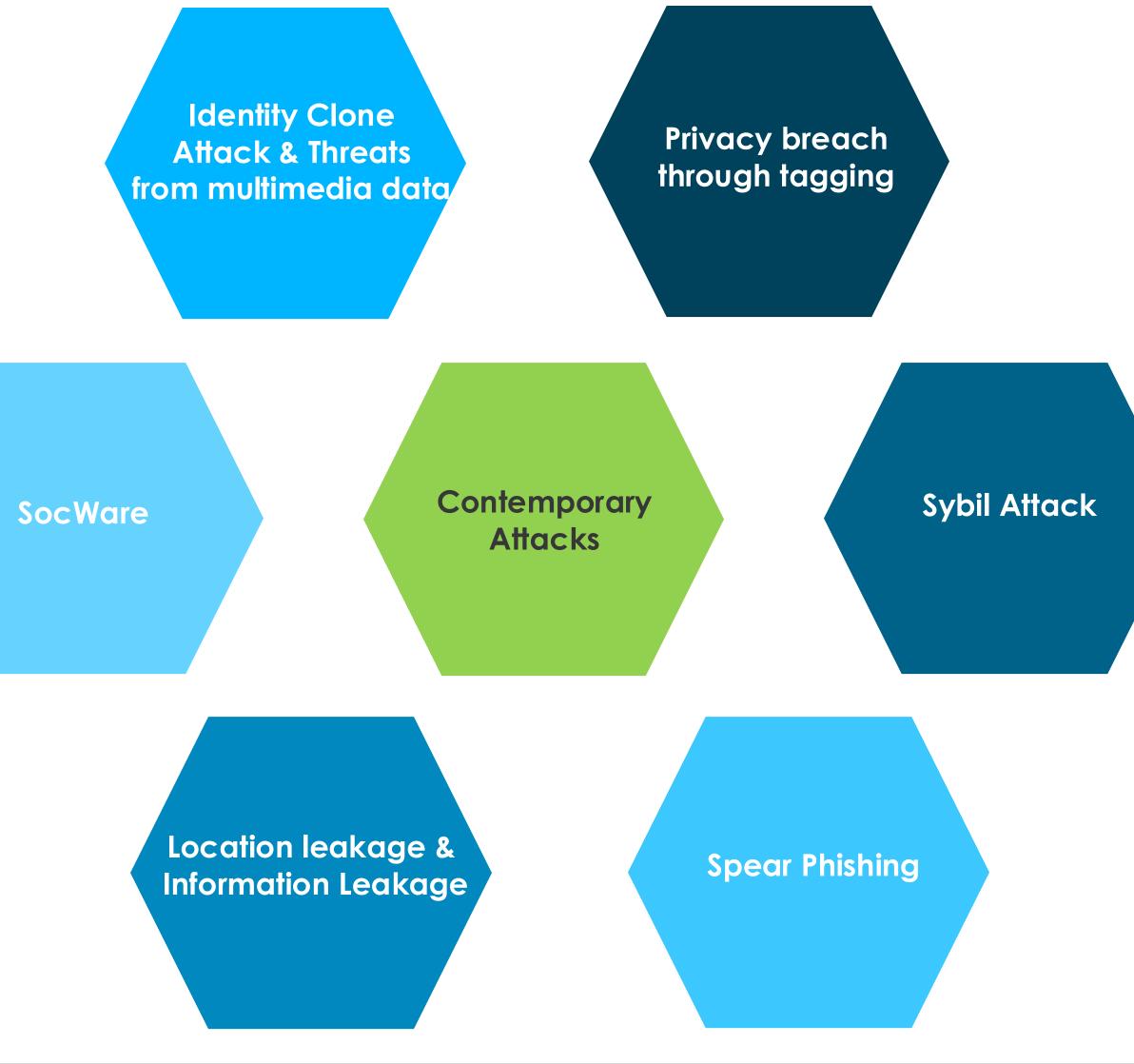




Cyber attacks are increasing every day with the increased use of mobile and Web applications, Globally, statistics show that more than **70 per cent** of the applications either have vulnerabilities which could potentially be exploited by a hacker, or worse, they have already been exploited.

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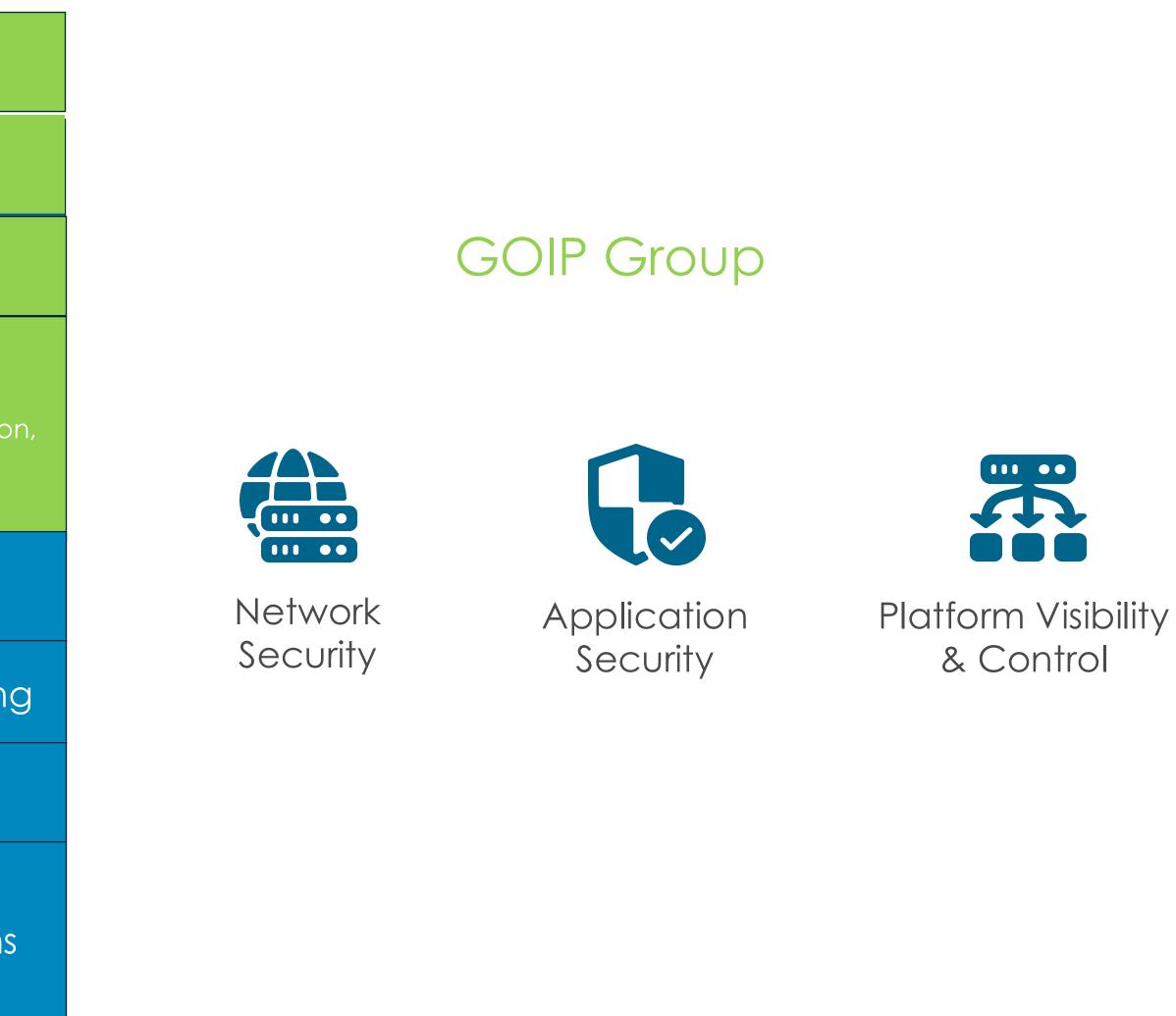


#### Delivering Security in the Cloud Requires Close Collaboration

Customer data										
Platform, applications, identity & access Scanning										
Operating system, network & firewall detection										
Client-side dat encryption & do integrity authentic	ata	Server-side (file system c	encryption and/or data)	Networking traffic protection (encryptio integrity, identity)						
		Soft	ware	•						
Compute	St	orage	Databo	se	Networking					
Hardy	Hardware/enterprise global infrastructure									
Regions		Availabil	ity zones	Edge locations						

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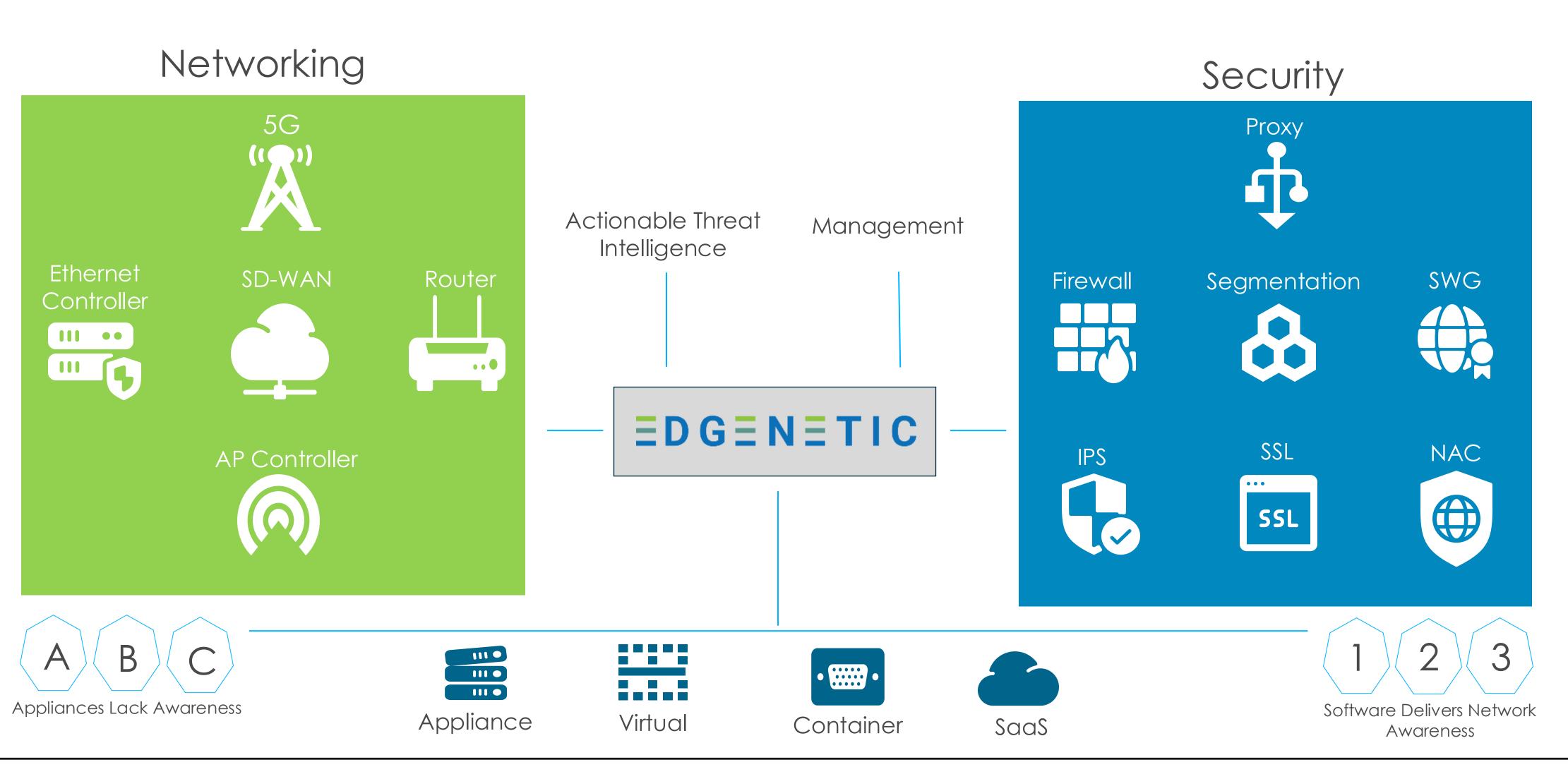






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#### Convergence of Networking and Security Solutions



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## EDGENETIC Native Protection Source Scanning







## Source Scanning

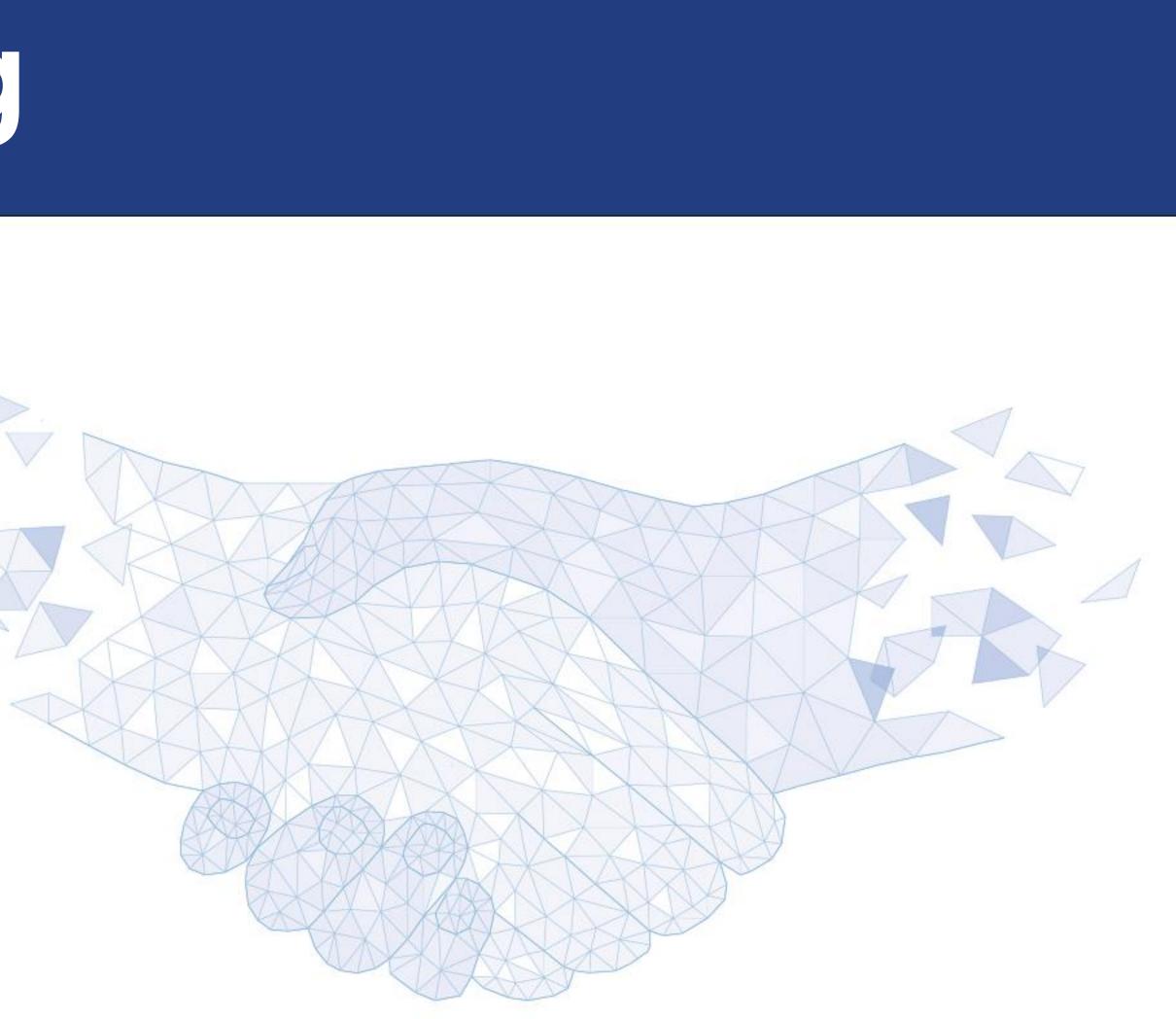
## 

PROCESSING



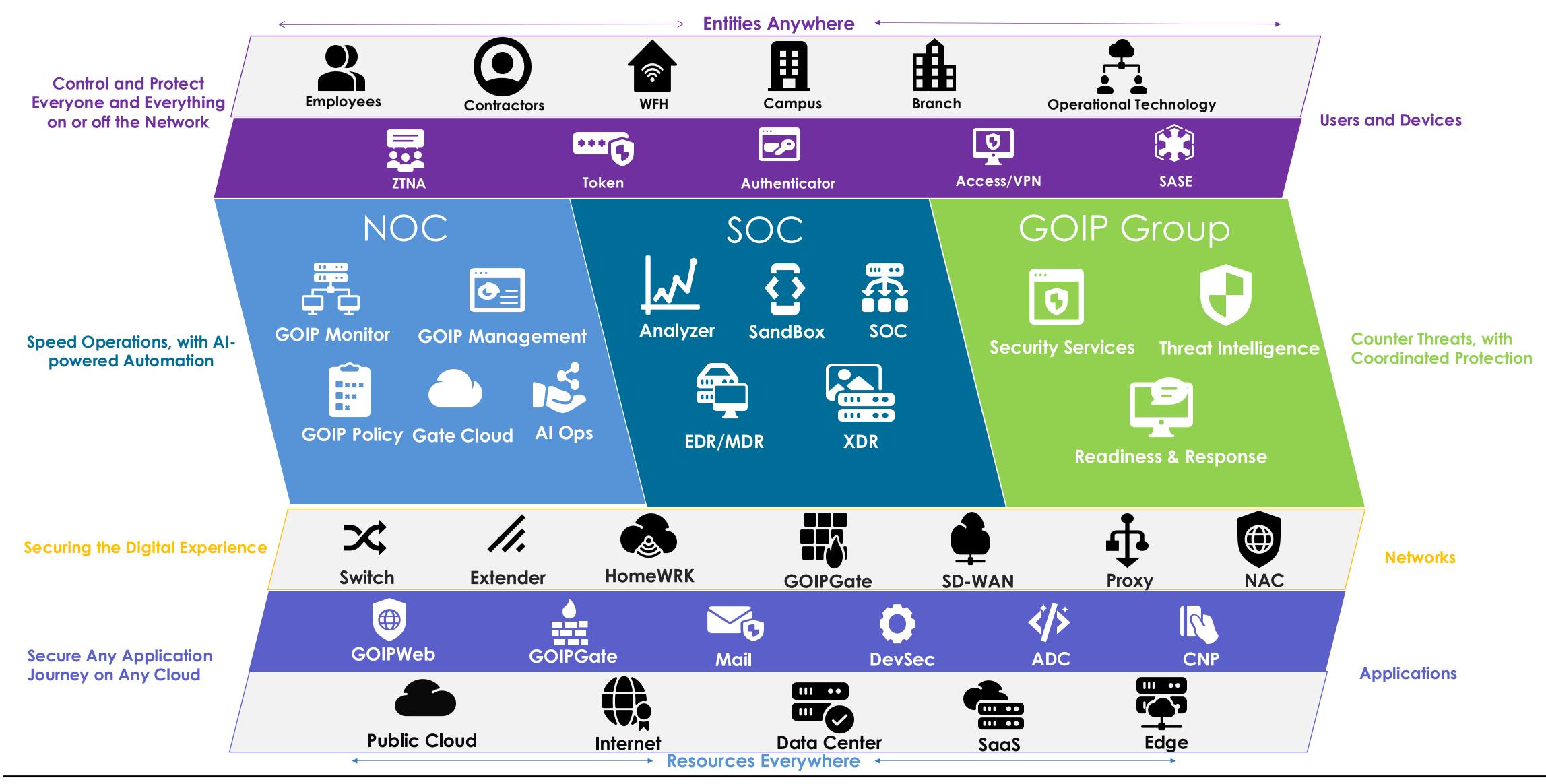
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#### **GOIP Group Technology Vision**



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To solve the problem of unclear asset sorting in the interconnected network, GOIP Group uses its unique high-precision asset tags to help customers quickly sort out the assets exposed on the interconnected network side. This is done by:

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Providing information about the potential unknown risks of exposed assets



Helping customers understand which Internet assets should be focused on

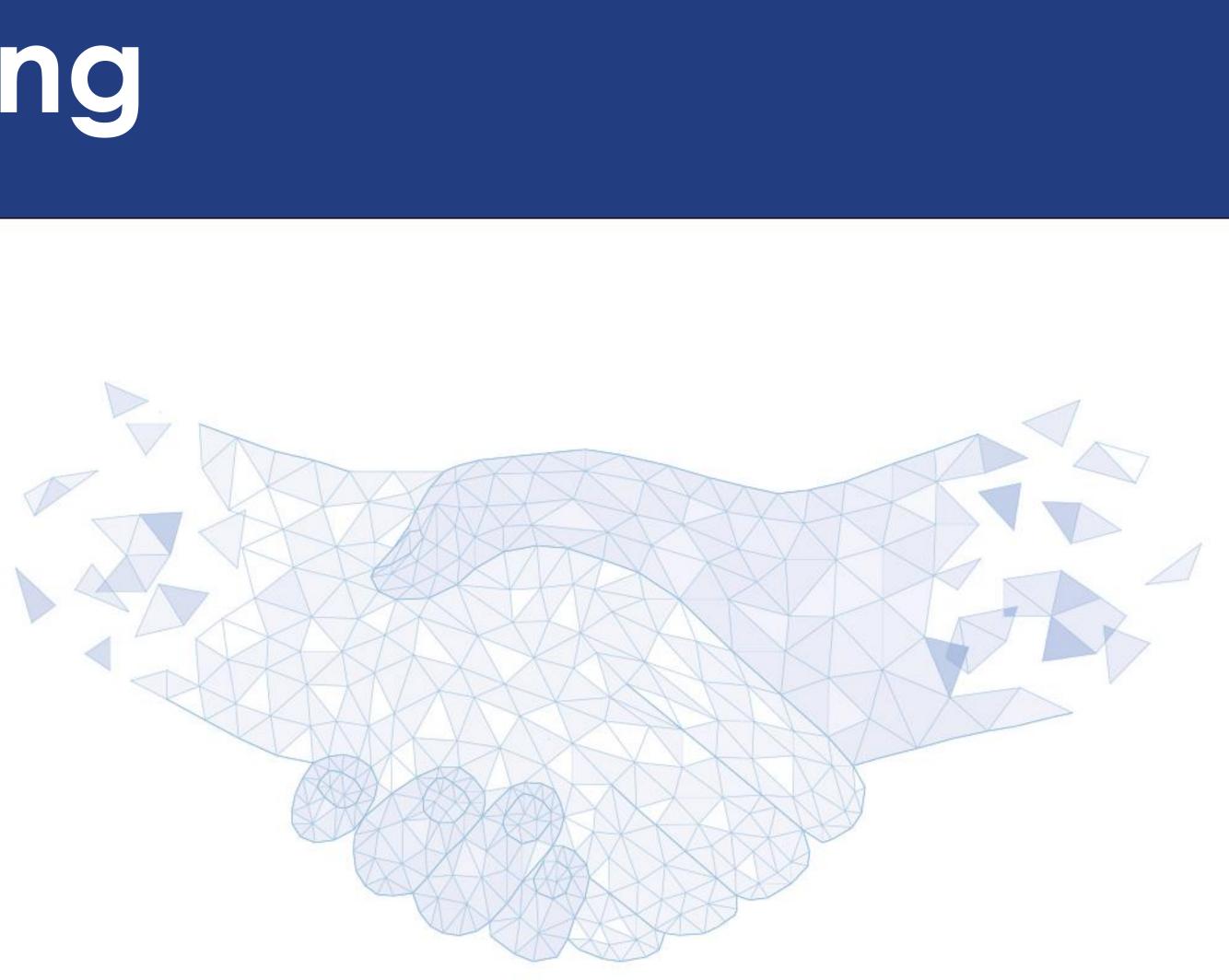


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## REPORT

## PROCESSING

## KEY CAPABILITIES



## Source Scanning





#### **Source Scanning Flowchart**

Source scanning helps organizations proactively detect and address security vulnerabilities, ensure compliance with industry standards, improve code quality and maintainability, optimize performance, mitigate risks associated with third-party components, and protect intellectual property.



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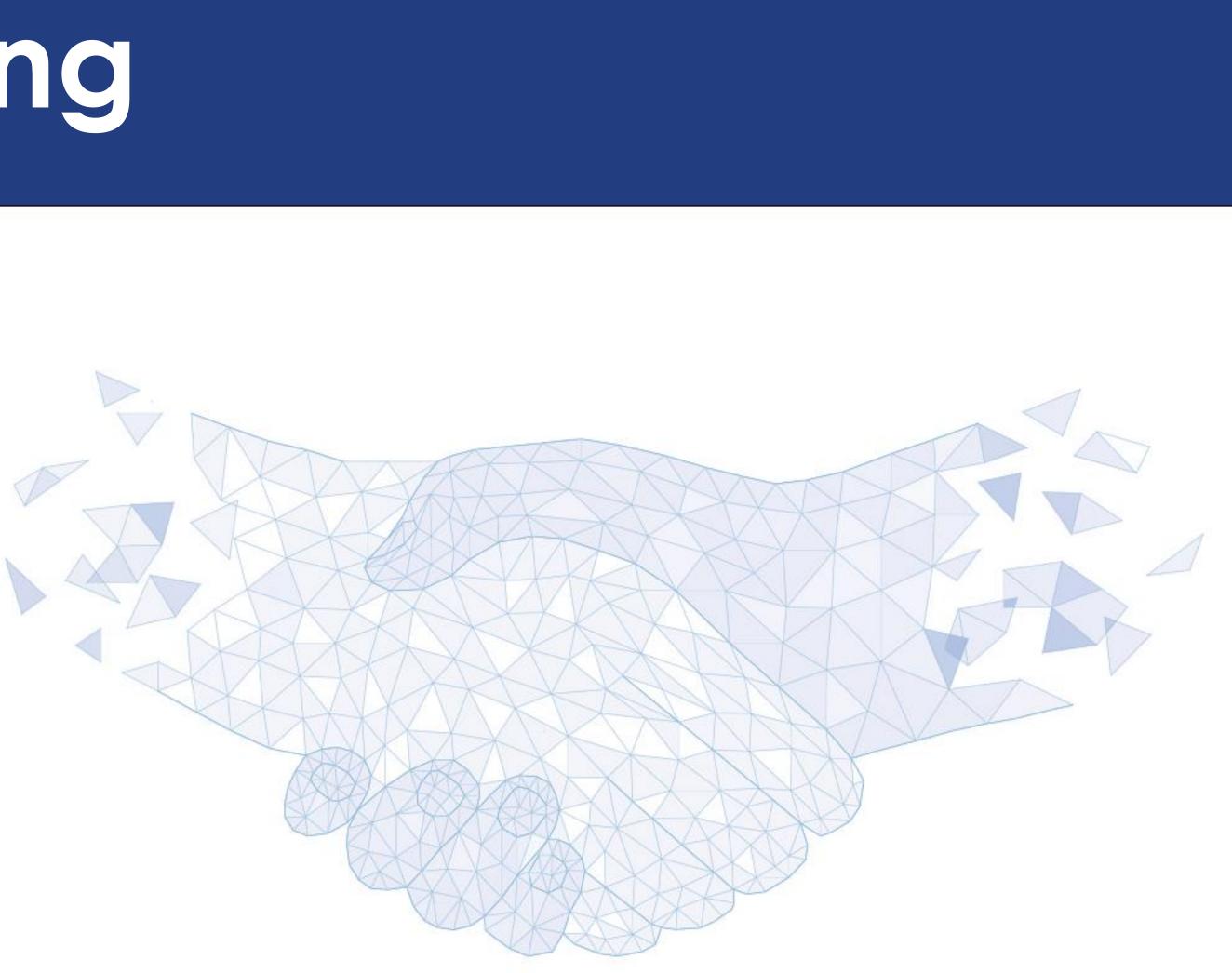


## Source Scanning

#### ■ KEY CAPABILITIES

**REPORT** 

- PROCESSING



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- Includes detailed statistics on Internet scanning of assets, providing clear visibility into network assets and risks.
- Ensures legality and compliance, meeting the inspection requirements of higher-level regulatory authorities and fulfilling the needs of IT operations and maintenance.
- Comprehensive analysis and statistics of risk assets, offering professional Internet risk mitigation solutions to address specific issues.







#### SOURCE **SCANNING** REPORT

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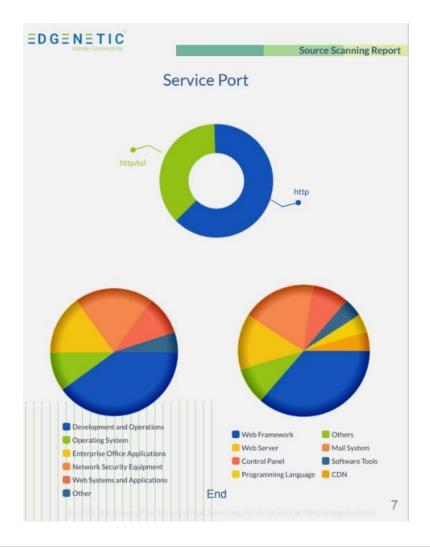
#### The scanning results of this Attact Surface Manageme Total of 21 associated results, Among them, 10 associated IPs and 11 associated domains were detected.

	HOST	DOMAIN	PORT & SERVICE	WEBSITE TITLE
1	20.190.190.132	msoid.cncar etc.com	443   http/ssl	Object moved
2	23.106.49.70	cncarecc.com.hk	443   http/ssl	IT Managed Services Provide Hong Kong   CNCARE Hong Kong
3	40.99.222.184	autodiscover.cncarecc.com	80   http	
4	47.90.111.134	bmp.cncarecc.com	80   http	CN Care
5	47.112.27.149	cncarecc.com	443   http/ssl	CN Care
6	47.112.27.149	www.cncare.tech	80   http	CN Care
7	47.112.27.149	cncarecc.com	80   http	CN Care
8	47.112.27.149	www.cname.tech	80   http	CN Care
9	47.112.27.149	cncare.tech	80   http	CN Care
10	101.100.210.50	autodiscover.cncarecc.cn	80   http	Default Web Site Page
11	101.100.210.50	webmail.cncarecc.cn	443   http/ssl	Webmail Login
12	101.100.210.50	webmail.cncarecc.cn	80   http	Webmail Login
13	103.215.3.89	cncarecc.com.hk	2083   http/ssl	cPanel Login
14	103.215.3.89	cncarecc.com.hk	2082   http	cPanel Login
15	103.215.3.89	cncarecc.com.hk	2086   http	WHM Login
16	103.215.3.89	cncarecc.com.hk	2095   http	Webmail Login
17	103.215.3.89	cncarecc.com.hk	2096   http/ssl	Webmail Login
18	103.215.3.89	cncarecc.com.hk	2087   http/ssl	WHM Login
19	125.77.142.198	www.cncarecc.com	443   http/ssl	CN Care
20	183.60.153.17	crm.cncarecc.com	80   http	FeelEc
21	220.181.125.251	www.cncarecc.com	80   http	CN Care



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APPLICATION VERSION	MIDDLEWARE	LOCATION	AUTONOMOUS SYSTEM	AUTONOMOUS SYSTEM NUMBER
None	-	Johannesburg, Gauteng Province, South Africa	Microsoft Corporation	8075
jQuery +5	Apache	Singapore	Leaseweb Asia Pacific pte. Itd.	59253
Microsoft IIS WebServer +5	Microsoft-IIS/10.0	Frankfurt am Main, Hesse, Germany	Microsoft Corporation	8075
Bootstrap +3	**	China Hong Kong	Alibaba Cloud	45102
ThinkPHPDevelopmentFram ework +6	Apache	Shenzhen City, Guangdong Province, China	Alibaba Cloud	37963
LaySNSThinkPHP+LayU+6	Apache	Shenzhen City, Guangdong Province, China	Alibaba Cloud	37963
jQuery +6	Apache	Shenzhen City, Guangdong Province, China	Alibaba Cloud	37963
jQuery +6	Apache	Shenzhen City, Guangdong Province, China	Alibaba Cloud	37963
LaySNSThinkPHP+LayU+6	Apache	Shenzhen City, Guangdong Province, China	Alibaba Cloud	37963
Apache Web Server	Apache	Singapore	Vodien Internet Solutions Pte Ltd	58621
Horde +3	Apache	Singapore	Vodien Internet Solutions Pte Ltd	58621
Horde +3	Apache	Singapore	Vodien Internet Solutions Pte Ltd	58621
cPanelVirtual host management system+2	•	China Hong Kong	HUAWEI	136907
cPanelVirtual host management system+2	**	China Hong Kong	HUAWEI	136907
connel WHM+4		China Hong Kong	HUMANEL	126907





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# EDGENETIC Native Protection Vulnerability Assessment







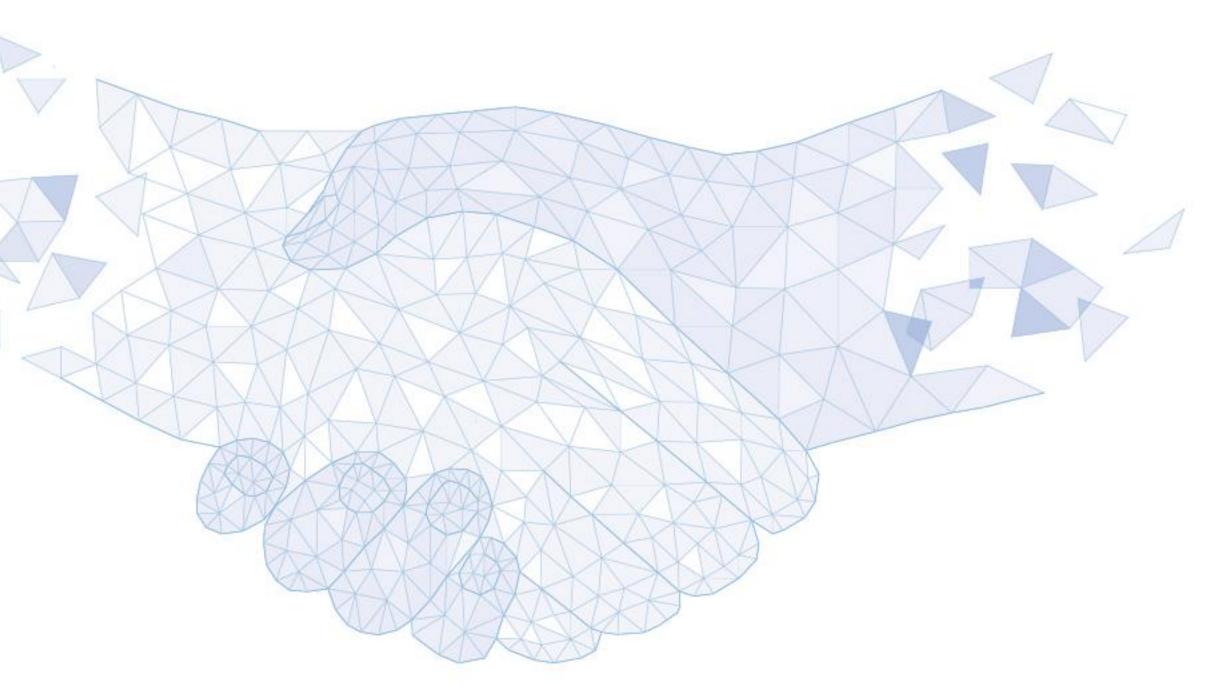
## Vulnerability Assessment (VA)

## **KEY CAPABILITIES**

- VA PROCESSING
- REPORT & COMPARISON

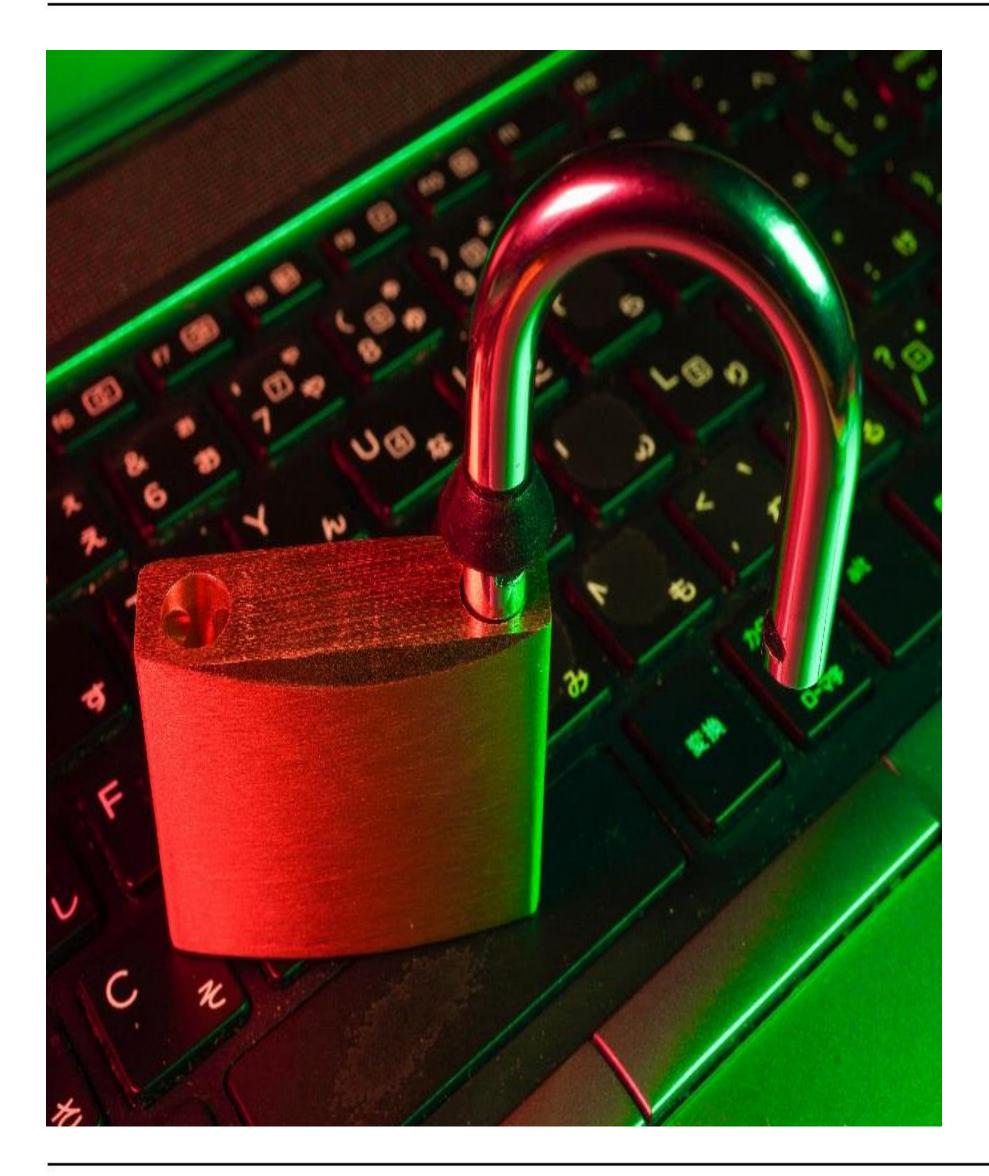
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#### What is Vulnerability Assessment?



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It primarily adopts a scanning approach which is done both manually and performed by certain tools.



The outcome of a VA process is a report showing all vulnerabilities, which are categorized based on their severity.



This report is further used for the next step, which is Penetration Testing (PT).



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#### What are the Different Types of VA Scans?







## There are Two Types of VA Scans:

#### Internal VA scans:

Scan the internal network for access, vulnerabilities, and compliance issues. They are used to identify security risks before they can be exploited by attackers from inside the organization.

#### External VA scans:

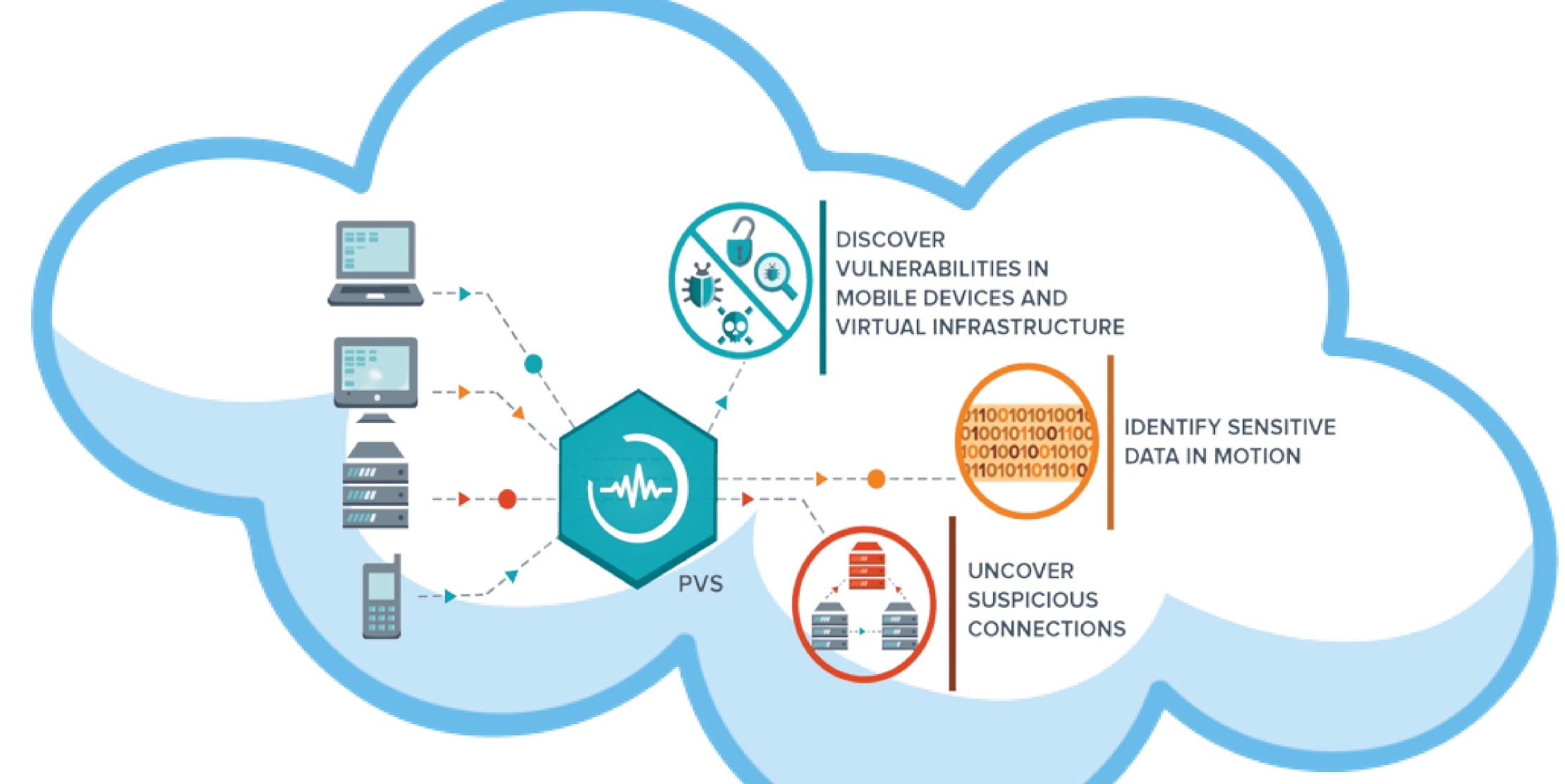
Scan the external network for access, vulnerabilities, and attack surfaces. They are used to identify security risks that could be exploited by attackers from outside the organization.

Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.





#### IT Devices



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## Internal VA Scanning



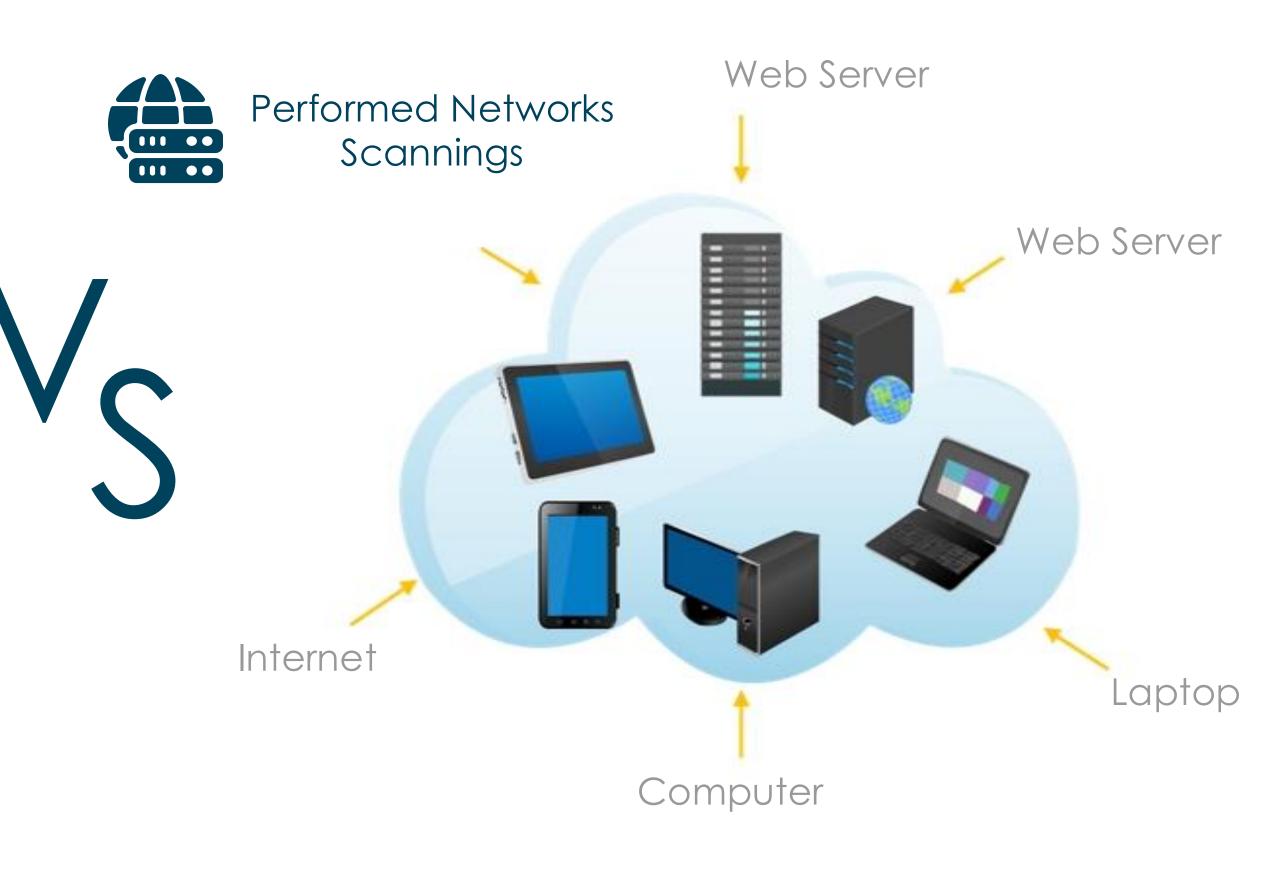
Performed Location Access Scanning

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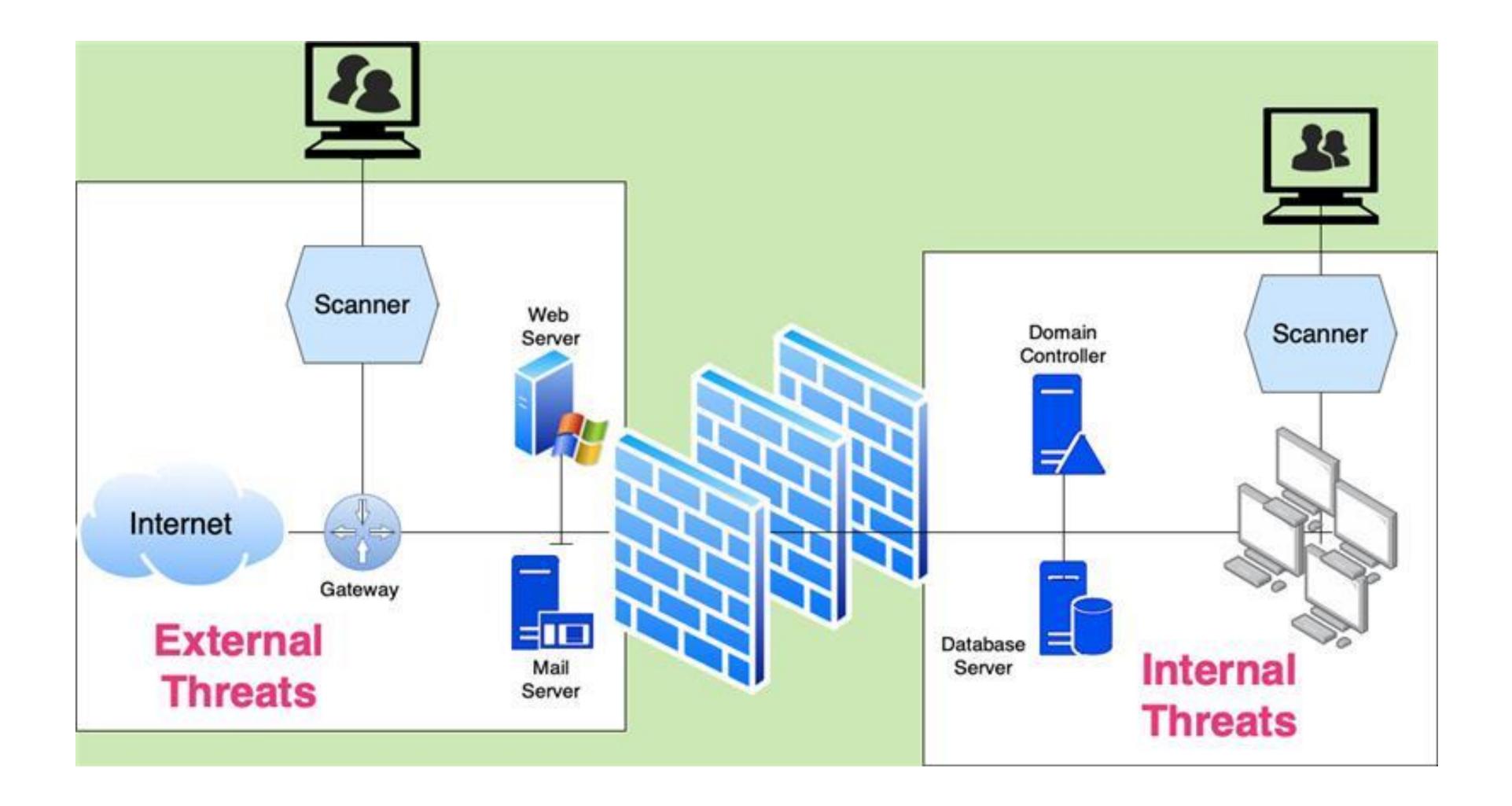
## $\Xi D G \Xi N \Xi T I C$



## **External VA Scanning**







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#### Vulnerability Assessment Advantage



#### Improved Security Posture

By identifying vulnerabilities, organizations can take appropriate measures to strengthen their security posture, protecting their systems and data.



#### Prioritization of Remediation Efforts

VA helps prioritize vulnerabilities based on their severity, allowing organizations to allocate resources effectively and address the most critical issues first.

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#### Cost-Effective Security Investment

Identifying vulnerabilities through VA helps organizations identify and address security issues before they can be exploited, potentially saving significant costs associated with security breaches.



#### Third-Party Risk Management

Demonstrating a commitment to vulnerability assessment and proactive security measures enhances customer trust and helps maintain a positive reputation in the marketplace.



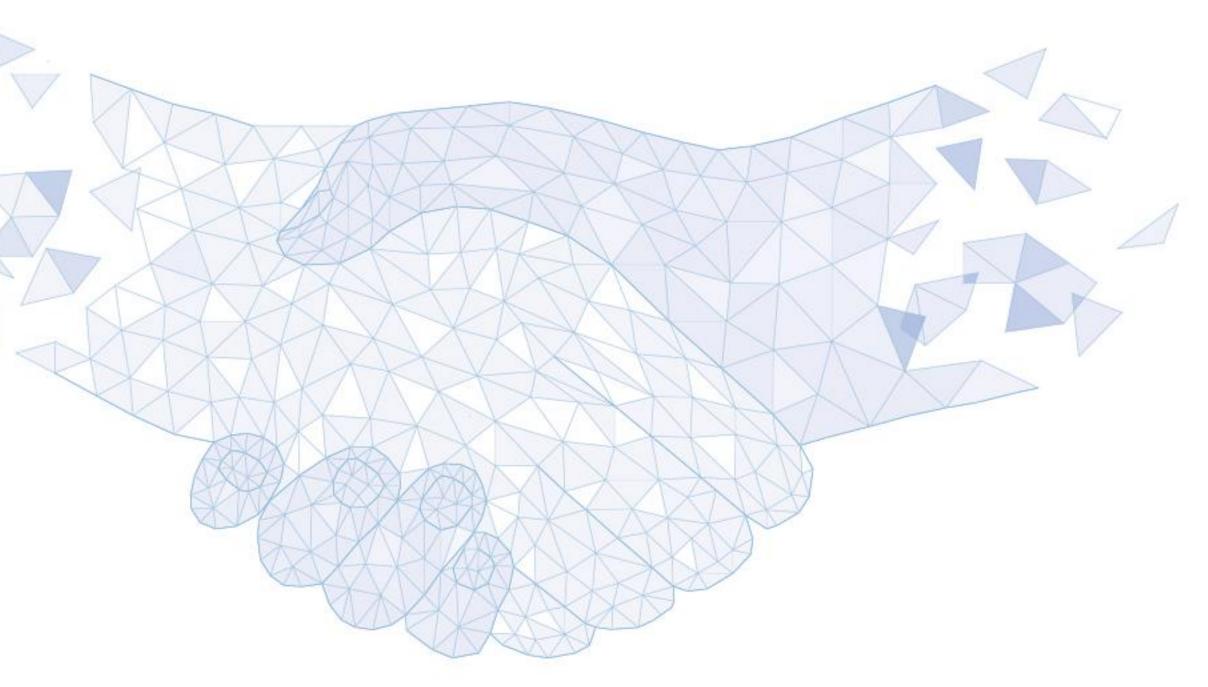
## Vulnerability Assessment (VA)

## KEY CAPABILITIES VA PROCESSING

REPORT & COMPARISON

#### $\Xi D G \Xi N \Xi T I C$







#### Compliance Requirement Fulfillment:

Simple and fast self-assessment to determine compliance with security inspection requirements of cybersecurity and regulatory agencies.

#### Enhanced Security Level:

Self-testing and self-inspection of security vulnerabilities to improve the level of security operations and maintenance management and enhance user security reinforcement capabilities.

#### Improved Operational Efficiency:

Formulate professional and intuitive vulnerability scanning reports based on the scan results. Classify identified security vulnerabilities and provide remediation suggestions.

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#### **VULNERABILITY ASSESSMENT PROCESSING**

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#### Simple Questionnaire

What systems or networks will be assessed? Who will be involved in the assessment?

#### **Permission Letter**

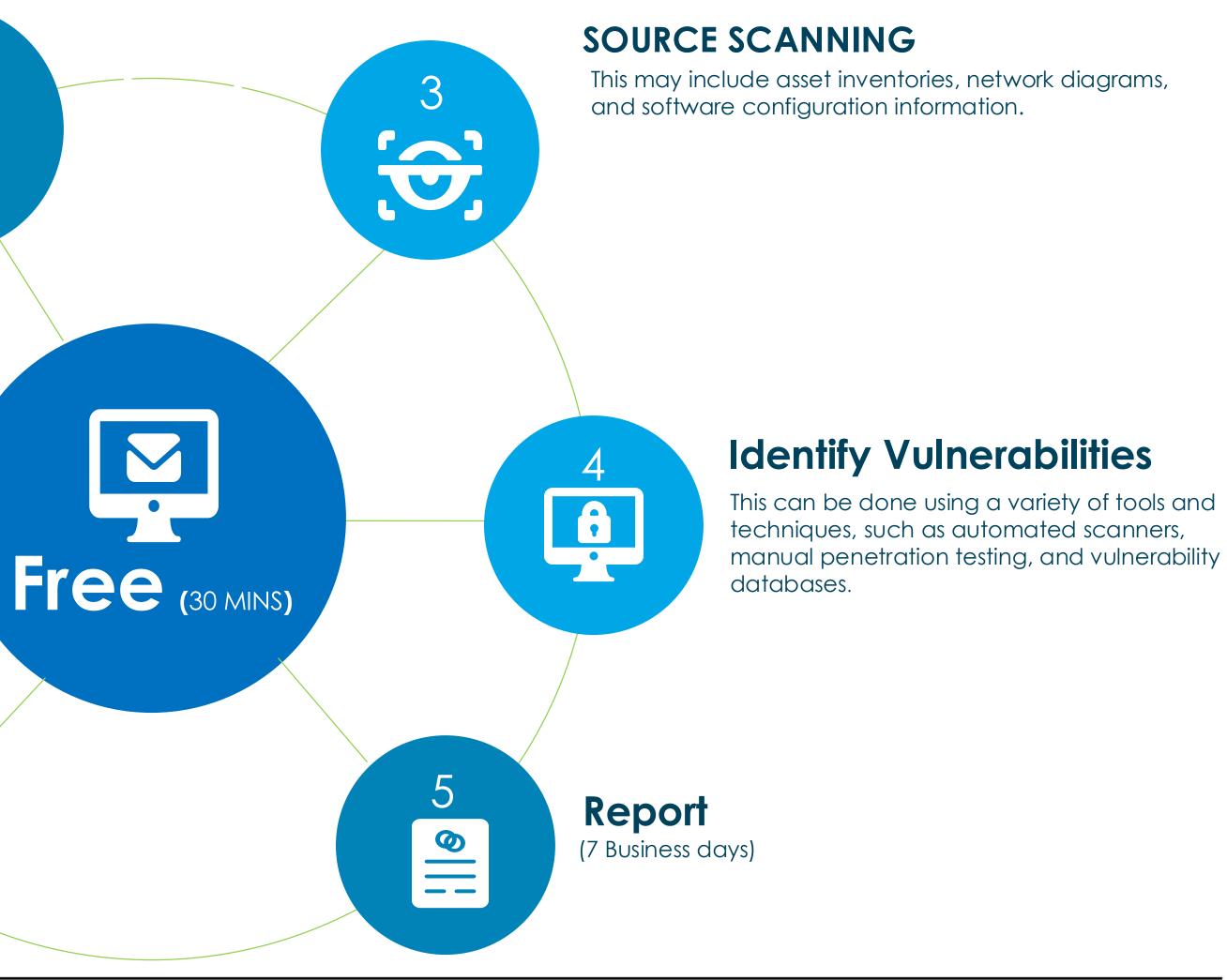
It can help the company to comply with privacy regulations.

#### Remediate the Vulnerabilities.

This may involve applying patches, changing configurations, or implementing new security controls.

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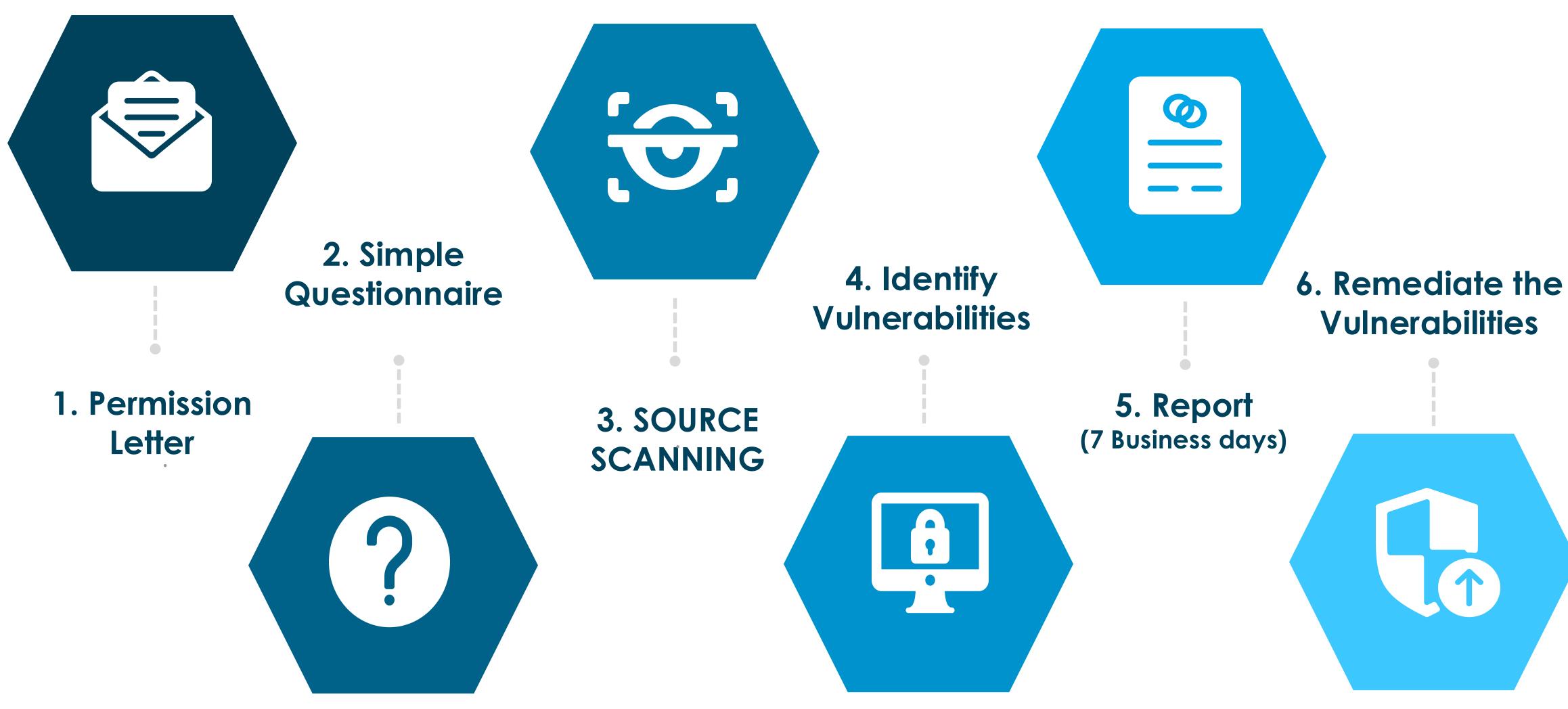








#### Vulnerability Assessment Processing (Free 30 mins)



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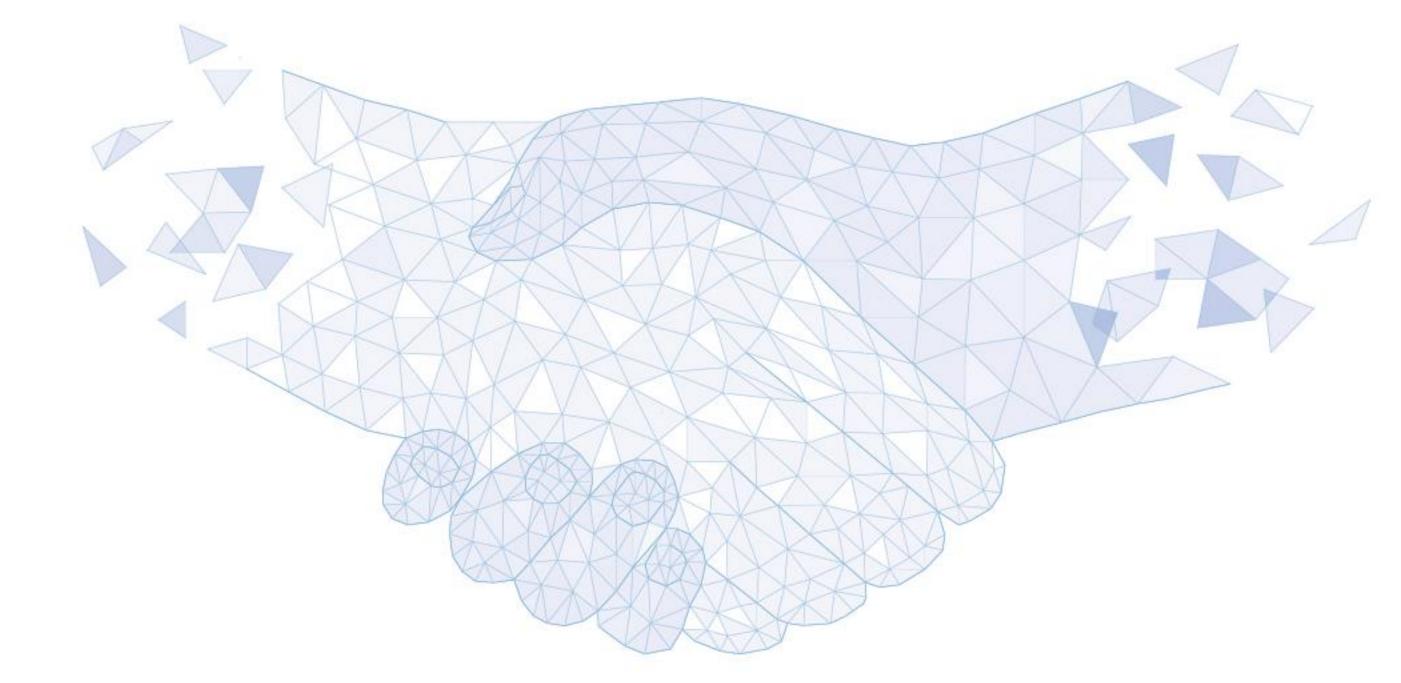




## Vulnerability Assessment (VA)

#### ■ KEY CAPABILITIES

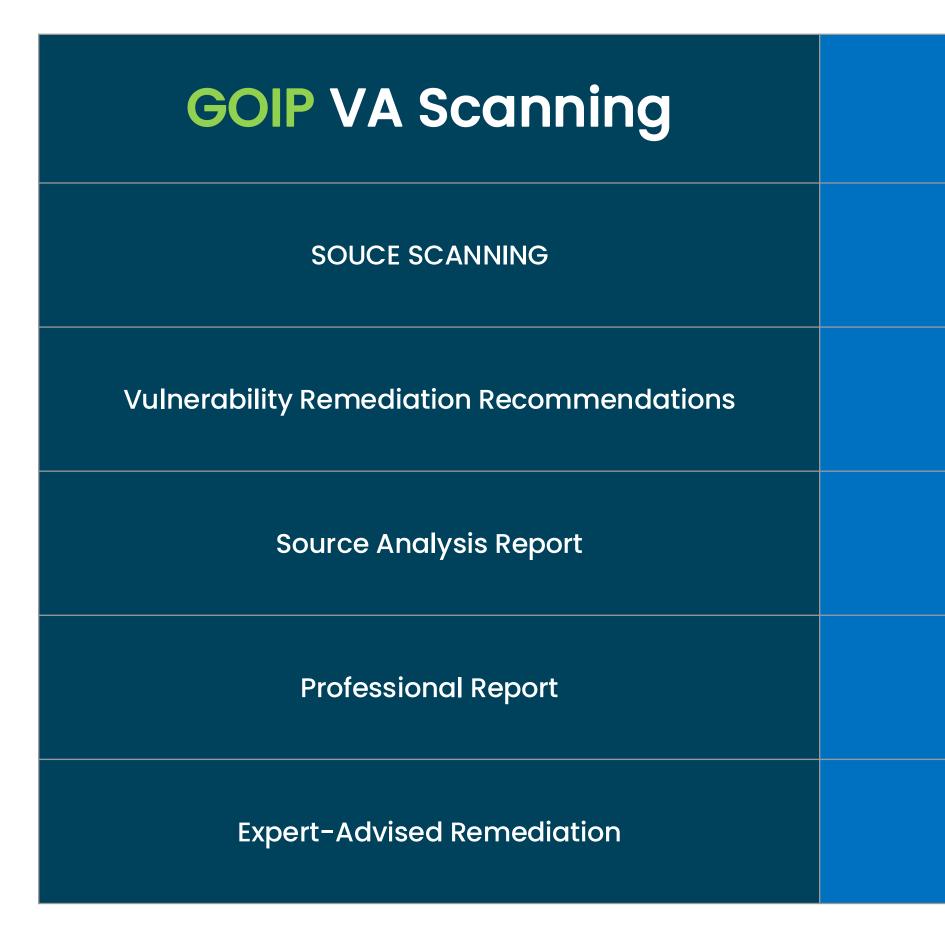
- VA PROCESSING



## **REPORT & COMPARISON**

## EDGENETIC





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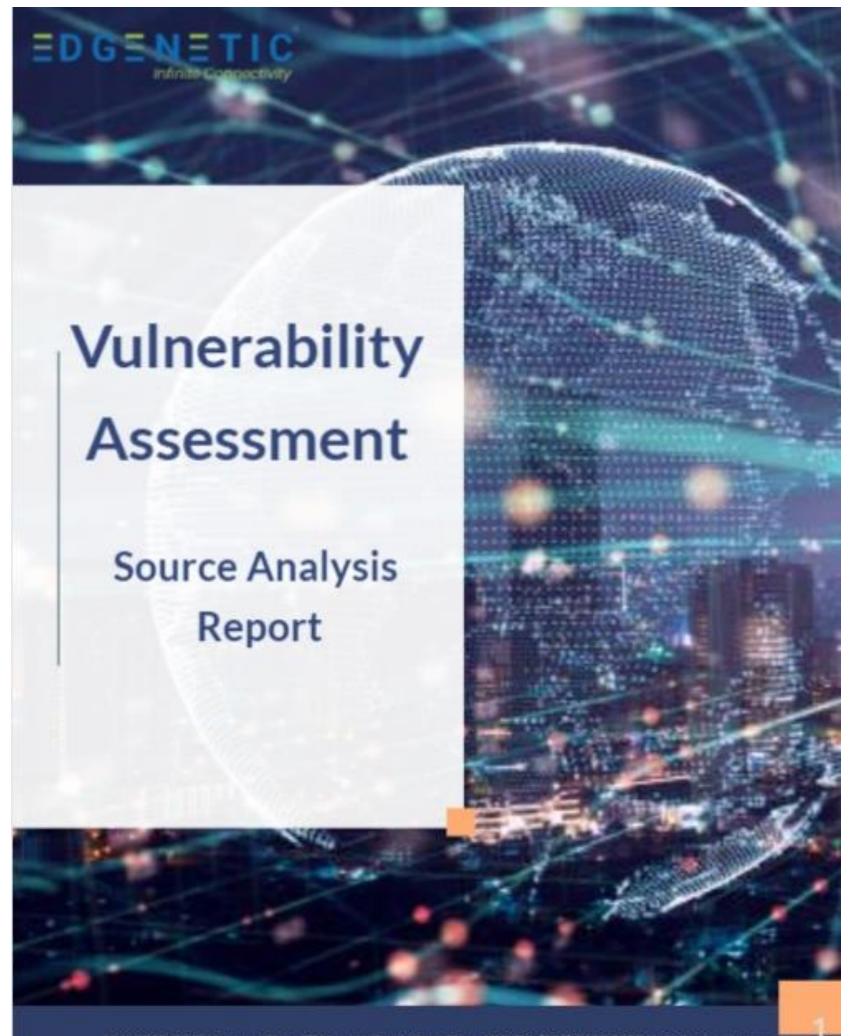


FREE	PAID
Maximum <b>30 Minutes</b>	Full-System Scan
Show 1 Only	Full
Simplified Report	Comprehensive Report
Not Included	Full List of Report
Not Included	Included





#### **30 MINS FREE VERSION**



Unit 2508, 25/F, Nanyang Plaza 57 Hung to Road, Kwun Tong, HK | Tel: (852) 2138 9388 | info@goipaula.com

## $\Xi D G \Xi N \Xi T I C$



		Scan Ir	nformations	S		
Target	Scan Type	Start Time	Scan Duration	Requests	Average Response Time	Maximu Respons Time
http://*********	Full Scan	** **, 2023, 11:18:08 AMGMT+8	30 minutes	18088	146ms	723ms
Thr	eat Lev	s s	everity	Vulnerabiliti	es Inst	ances
	eat Lev		High		2	3
One or m	ore high-seve	erity type	Medium		4	6
the scan		endiscovered by	LOW		3	3
		*****************	nformationa		5	5
			Total	1	4	17
3 Cross High Severity	site scripting	Instances 1 *** 0	6 Medium Severity	Basic authentication	****	Instances 1 0 0 0
Clickjac	king: X-Frame-Op	Instances ptions header 1	$\square$	Access-Control-Allow-	Origin beader with	Instances 1
2	***************	0	/	wildcard (*) value	- ign nouser intil	
	******			******************		0
Low Severity			Informational			0



#### **Subscribed Full Version Report**



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#### Impacts

cross site scripting
 DOM-based cross site scripting

1 Basic authentication over HTTP 1 Unencrypted connection 1 User credentials are sent in clear text Vulnerable JavaScript libraries

1 Clickjacking: X-Frame-Options header 1 Cookies with missing, inconsistent or contradictory properties 1 Cookies without HttpOnly flag set

1 Access-Control-Allow-Origin header with wildcard (\*) value 1 Content Security Policy (CSP) not implemented 1 No HTTP Redirection 1 Permissions-Policy header not implemented 1 Subresource Integrity (SRI) not implemented

#### Cross site scripting

Cross-site Scripting (XSS) refers to client-side code injection attack wherein an attacker can execute malicious scripts into a legitimate website or web application. XSS occurs when a web application makes use of unvalidated or unencoded user input within the output it generates.

Impact Malicious JavaScript has access to all the same objects as the rest of the web page, including access to cookies and local storage, which are often used to store session tokens. If an attacker can obtain a user's session cookie, they can then impersonate that user.

Furthermore, JavaScript can read and make arbitrary modifications to the contents of a page being displayed to a user. Therefore, XSS in conjunction with some clever social engineering opens up a lot of possibilities for an attacker.

#### http://testhtml5.vulnweb.com/Verified

Connection: Keep-alive

Cookie input username was set to RDFYiolf<script>xdax(9839)</script> The input is reflected inside a text element. Request GET / HTTP/1.1 Referer: https://www.google.com/search?hl=en&q=testing User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36 Cookie: username=RDFYjolf<script>xdax(9839)</script Accept: text/html.application/xhtml+xml.application/xml;q=0.9,\*/\*;q=0.8 Accept-Encoding: gzip,deflate,br Host: testhtml5.vulnweb.com

Recommendation context-dependent encoding and/or validation to user input rendered on a page References Cross-site Scripting (XSS) Attack https://www.acunetix.com/websitesecurity/cross-site-scripting/Types of X55 -

#### NETIC

#### Source: window.name Execution Sink: evaluate code Location: http://testhtml5.vulnweb.com/?wvstest=domxssExecutionSink(1,"'\"> <xsstag> (locxss')#domxssExecutionSink(1,"\"> <xsstag>(locxss') Stack Trace: Object.toObject (http://testhtml5.vulnweb.com/static/app/libs/sessvars.js:130:18) Object.init (http://testhtml5.vulnweb.com/static/app/libs/sessvars.js:85:29) Code: JRL: http://testhtml5.vulnweb.com/static/app/libs/sessvars.js

Call: eval('this.myObj=' + x); Recommendation Your script should filter metacharacters from user input. References

Acunetix Cross Site Scripting Attack https://www.acunetix.com/websitesecurity/cross-site-scripting VIDEO: How Cross-Site Scripting (XSS) Works https://www.acunetix.com/blog/web-security-zone/video-how-cross-site-scripting-xss-works

The Cross Site Scripting Faq ttps://www.cgisecu

OWASP DOM Based XSS ttps://owasp.org/www-community/attacks/DOM Based XSS

DOM based XSS Prevention Cheat Sheet https://cheatsheetseries.owasp.org/cheatshe

XSS Filter Evasion Cheat Sheet https://www.owasp.org/index.php/XSS\_Filter\_Evasion\_Cheat\_Sheet

Cross site scripting https://en.wikipedia.org/wiki/Cross-site\_scripting

OWASP PHP Top 5 https://www.owasp.org/index.php/PHP\_Top\_5

How To: Prevent Cross-Site Scripting in ASPINET https://docs.microso\_.com/en-us/previous-version p-n-p/ 649310(v=pandp.10)

#### ENETIC

https://www.acunetix.com/websitesecurity/xss/ XSS Filter Evasion Cheat Sheet https://www.owasp.org/index.php/XS5\_Filter\_Evasion\_Cheat\_Sheet Excess XSS, a comprehensive tutorial on cross-site scripting https://excess-xss.com/ Cross site scripting https://en.wikipedia.org/wiki/Cross-site\_scripting

DOM-based cross site scripting

This script is possibly vulnerable to Cross Site Scripting (XSS) attacks. Cross site scripting (also referred to as XSS) is a vulnerability that allows an attacker to send malicious code costally in the form of Javascript) to another user. Because a browser cannot know if the script should be trusted or not, it will execute the script in the user context allowing the attacker to access any cookies or session tokens retained by the browser. While a traditional cross-site scripting vulnerability occurs on the server-side code, document object model based cross-site scripting is a type of vulnerability which a ects the script code in the client's browser

#### Impact

Malicious users may inject JavaScript, VBScript, ActiveX, HTML or Flash into a vulnerable application to fool a user in order to gather data from them. An attacker can steal the session cookie and take over the account, impersonating the user. It is also possible to modify the content of the page presented to the user.

http://testhtml5.vulnweb.com/ Source: window.location Execution Sink: document.write

 $\label{eq:location-http://testhtmlSvulnweb.com/?wvstest=domxssExecutionSink(1,**(*) < xsstag>)(locxss*)#domxssExecutionSink(1,**(*) < xsstag>)(locxss*)$ Stack Trace: \* http://testhtml5.vulnweb.com/static/app/post.js:119:14

http://testhtml5.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;g=0.9;\*/\*;g=0.8

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36

sitive information, should always be transferred to the server

You are using one or more vulnerable JavaScript libraries. One or more vulnerabilities were reported fo this version of the library. Consult Attack details and Web References for more information about the affected library and the vulnerabilities that were reported.

URL: http://code.jquery.com/jquery-1.9.1.min.js

Detection method: The library's name and version were determined based on the file's CDN URI. CVE-ID: CVE-2015-9251, CVE-2020-11022, CVE-2020-11023 Description: Possible Cross Site Scripting via third-party text/javascript responses / In jQuery versions greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even a er sanitizing it is the second se

greater than or equal to 1.2 and before 3.5.0, passing HTML from untrusted sources - even a -er samitzing in - to one of (Joury's DOM manipulation methods (i.e., html), append(), and others) may execute untrusted code. This problem is patched in JOuery 3.5.0. / In JOuery versions greater than or equal to 1.0.3 and before 3.5.0, passing HTML containing option elements from untrusted sources - even after sanitizing it - to one of JOuery's DOM manipulation methods (i.e., html), append), and others) may execute untrusted code. This problem is patched in jQuery 3.5.0.

References: https://github.com/jquery/iguery/issues/2432 http://blog.jguery.com/2016/01/08/jquery-2-2-and-1-12-relea https://blog.jquery.com/2020/04/10/jquery-3-5-0-released/ https://mksben.l0.cm/2020/05/jguery3.5.0-xss.html https://guery.com/upgrade\_guide/3.5/ https://guery.com/guery.html/refilter/ https://www.contelail.com/converVCVF-2020-11022/https://github.com/advisories/GHSA-gur4-sij5-5pc2 ttps://www.cvedetails.com/cve/CVE-2020-11023/ https://github.com/advisories/GH5A-jpcq-cgw6-v4j6

Request GET/HTTP/1.1

Referer: http://testhtml5.vu/rweb.com/ Accept: text/html,application/xhtml+xml.application/xml;q=0.9;/\*;q=0.8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36 Host: testhtml5.vulnweb.com

#### Connection: Keep-alive http://testhtml5.vulnweb.com/ Confidence: 95%

AngularJS 1.0.6 m/ajax/libs/angularjs/1.0.6/angular.min.js URL: https://ajax.googleap

#### Detection method: The library's name and version were determined based on the file's CDN URI. CVE-ID: CVE-2020-7676 Description: execution of arbitrary javascript / Prototype pollution / Cross-Site Scripting. References: https://code.google.com/p/mustache-security/wiki/AngularJS https://github.com/angular/angular.js/blob/b3b5015cb7919708ce179dc3d6f0d7d7f43ef621/CHAN GELOG.md

tp://avlidienbrunn.se/angular.txt https://github.com/angular/angular.js/commit/b39e1d47b9a1b39a9fe34c847a81f589fba522f8 https://github.com/angular/angular.js/commit/726f49dcf6c23106ddaf5cfd5e26592841db743a https://github.com/angular/angular.js/blob/master/CHANGELOG.md#179-pollution-eradication-2019-11-10-

https://nvd.nist.gov/vuln/detail/CVE-2020-7676

NETIC

Request GET / HTTP/1.1 Referer: http://testhtmi5.vulnweb.com/ Accept: text/html,application/xhtml+xml.application/xmbq=0.9;7";q=0.8 Accept-Encoding: gzip.deflate.br User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36 Host: testhtml5.vulnweb.com Connection: Keep-alive essvars 1.00 http://testhtml5.vulnweb.com/ Confidence: 95% URL: http://testhtml5.vulnweb.com/static/app/libs/sessvars.js Detection method: The library's name and version were determi based on the file's contents. CVE-ID:

https://web.archive.org/web/20131126051208/http://www.thomasfrank.se/sessionvars.htm

#### GET /static/app/libs/sessvars.js HTTP/1.1 Referer: http://testhtml5.vuloweb.com/

Upgrade to the latest version

#### Clickjacking: X-Frame-Options header Clickjacking (User Interface redress attack, UI redress attack, UI redressing) is a malicious technique of tricking a Web user into clicking on something di erent from what the user perceives they are clicking on thus potentially revealing confidential information or taking control of their computer while clicking on

NETIC

The server did not return an X-Frame-Options header with the value DENY or SAMEORIGIN, which means that this website could be at risk of a clickjacking attack. The X-Frame-Options HTTP response header can be used to indicate whether or not a browser should be allowed to render a page inside a frame or iframe.

Sites can use this to avoid clickjacking attacks, by ensuring that their content is not embedded into untrusted sites.

Impact The impact depends on the affected web application. http://testhtml5.vulnweb.com/

#### Paths without secure XFO header:

http://testhtml5.vulnweb.com/static/app/partials/popular.html http://testhtml5.vulnweb.com/ajax/popular http://testhtml5.vulnweb.com/ajax/latest http://testhtml5.vulnweb.com/ajax/ http://testhtml5.vulnweb.com/ajax/archive http://testhtml5.vulnweb.com/static/app/partials/latest.htm http://testhtmi5.vulrweb.com/static/app/partials/itemsList.html http://testhtml5.vulnweb.com/static/app/partials/contact.html http://testhtml5/vulnweb.com/static/app/partials/carousel.html http://testhtml5/vulnweb.com/contac http://testhtml5vulnweb.com/static/app/partials/[[item.value.url]] http://testhtml5vulnweb.com/static/app/partials/archive.html http://testhtml5.vulnweb.com/static/app/partials/about.html http://testhtm http://testhtml5.yulnweb.com/forgotow

Description: Unsanitized data passed to eval() References: Request

> Kurstein mitge generation and an and a second secon Drome/114.0.0.0 Safari/537.36 Host: testhtml5.vu/rweb.com Connection: Keep-alive

Recommendation





## **EDGENETIC Native Protection** Compliance

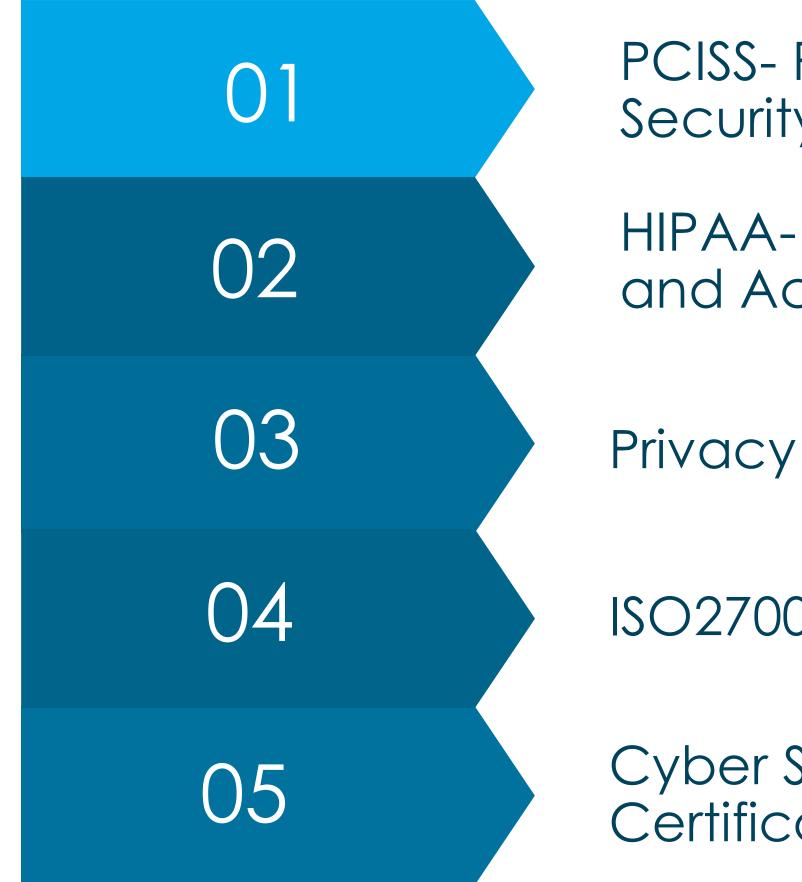




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#### COMPLIANCE



## $\Xi D G \Xi N \Xi T I C$



#### PCISS- Payment Card Industry Data Security Standard

HIPAA- Health and Insurance Portability and Accountability Act

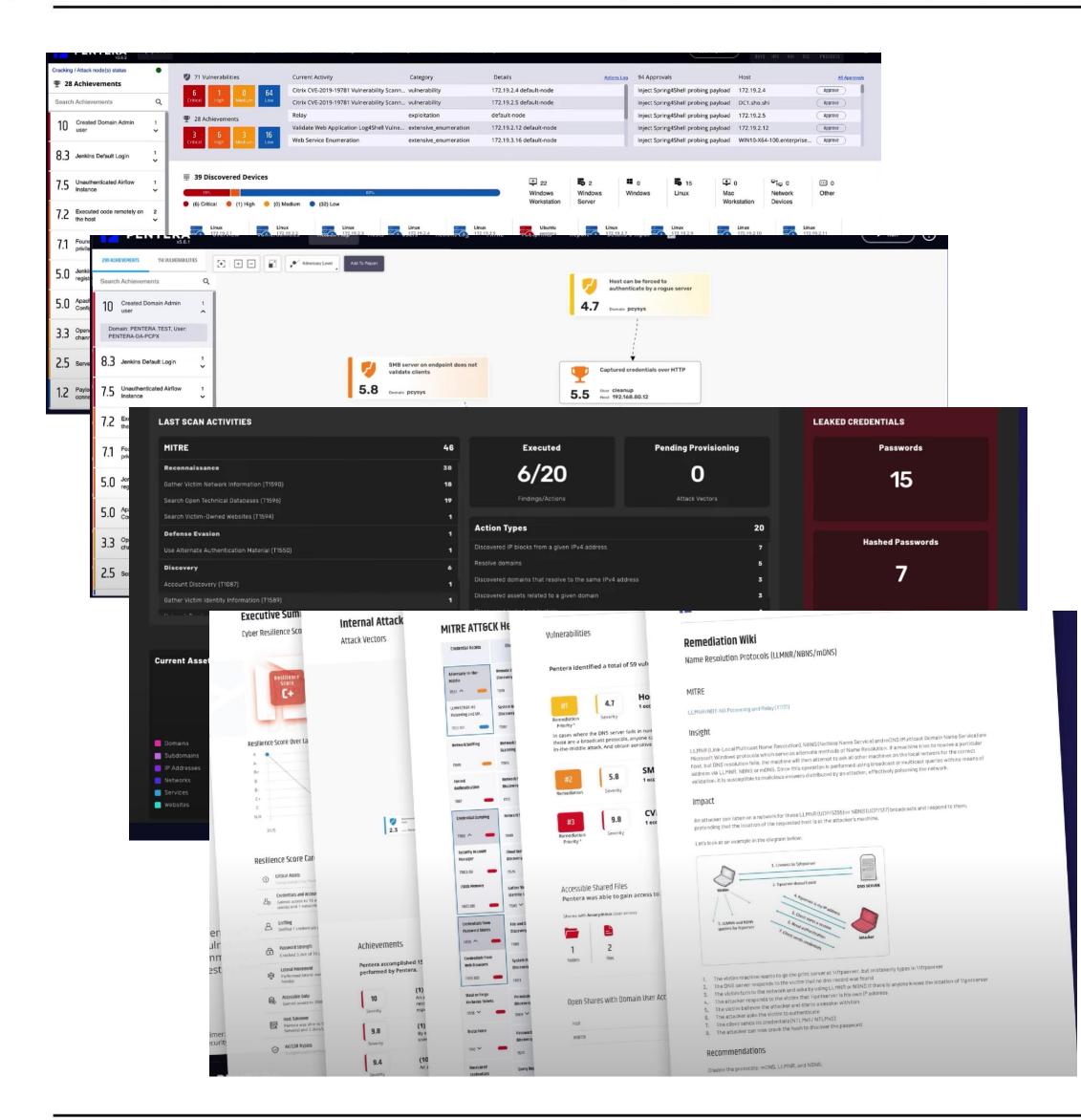
ISO27001 / 27002

Cyber Security Certificate in SG IMDA



32

#### **USE CASE : DATA SECURITY**



## $\Xi D G \Xi N \Xi T I C$



#### Customer Challenge

- Data Breaches
- Data Compliance
- Lack of Security Expertise
- Data Silos

## GOIP Group Benefits

- Protection from data breaches
- Use GOIP security information and event management (SIEM) solution
- Compliance with data protection laws and regulations
- Reduced risk of financial losses





#### **USE CASE : THREAT PROTECTION**

## Customer Challenge

- Cost
- Complexity
- Integration
- False positives
- Lack of skilled staff

#### GOIP Group Benefits

- Reduced costs
- Improved compliance
- Reduced risk of data breaches and other security incidents
- Competitive advantage
- Improved productivity

## $\Xi D G \Xi N \Xi T I C$



Events		· .						
	Activity	Completed						
	Overall Progress							
e been discovered by the scanner.	<ul> <li>Start URL changed (initial request to http://complusam.com/ was redirected to https://complusam.com/)</li> <li>Scanning complusam.com using v23.7.230728157</li> <li>Antivirus not found</li> <li>Scanning of complusam.com completed</li> </ul>	Oct 7, 2023, 10:01:35 AM Oct 7, 2023, 10:01:35 AM Oct 7, 2023, 10:01:35 AM Oct 7, 2023, 10:06:02 AM						
Requests 7,238	Average Response Time 47ms	Paths Identified						
	Latest Alerts	0 0 4 6						
complusam.com DPS/2.0.0-beta+sha-f6169cc Unknown Yes	<ul> <li>Cookies with missing, inconsistent or contradictory properties</li> <li>Cookies without HttpOnly flag set</li> <li>Clickjacking: X-Frame-Options header</li> <li>Permissions-Policy header not implemented</li> <li>HTTP Strict Transport Security (HSTS) not implemented</li> </ul>	Oct 7, 2023, 10:03:02 AM Oct 7, 2023, 10:03:02 AM Oct 7, 2023, 10:03:01 AM Oct 7, 2023, 10:03:01 AM Oct 7, 2023, 10:03:01 AM						
Create Target Create Target Create Target Create Target								
	e been discovered by the scanner. Requests 7,238 DPS/2.0.0-beta+sha-f6169cc Unknown Yes Create Target Create Target Create Target Create Target	Events  Events Events  Events E						

Scan Inform	mation Vulnerabilities	Site Structure Scan Statistics Events				
<b>T</b> Fil	lter					×
	Severity	Vulnerability	URL	Parameter	Status	Confidence %
	<b>Ŭ</b> Low	Clickjacking: X-Frame-Options header	https://complusam.com/		Open	95
	<b>ë</b> Low	Cookies with missing, inconsistent or contradictory properties	https://complusam.com/		Open	100
	<b>ë</b> Low	Cookies without HttpOnly flag set	https://complusam.com/		Open	100
	<b>ë</b> Low	HTTP Strict Transport Security (HSTS) not implemented	https://complusam.com/		Open	95
	<b>ë</b> Informational	Content Security Policy Misconfiguration	https://complusam.com/		Open	100
	<b>i</b> nformational	Content Security Policy Misconfiguration	https://complusam.com/		Open	100
	<b>i</b> nformational	Email addresses	https://complusam.com/		Open	95
	<b>ë</b> Informational	Outdated JavaScript libraries	https://complusam.com/		Open	95
	<b>ë</b> Informational	Outdated JavaScript libraries	https://complusam.com/		Open	95
	<b>ë</b> Informational	Permissions-Policy header not implemented	https://complusam.com/		Open	95





#### **USE CASE : COMPLIANCE**

Back to My Scans																	
Scan Summary	Hosts 1	Vulnerabilities 6	History 1											_			
Scan Details					Top 5 Operating System	ns Detected Dur	ing Scan							_			
•		🕐 o				CISCO PI	< 7.0										
Critical Vulnerabilities           ①           ①           ①		High Vulnerabilities															
Medium Vulnerabilities		Low Vulnerabilities															
<b>Details</b> Scan Name: complusar	m																
Plugin Set: 2023100622 CVSS_Score: CVSS_V3																	
Scan Template: Advanc Scan Start: Today at 10																	
Scan End: Today at 10:1																	
Authentication / Crede	ntial Info (Hosts)				Scan Durations								+				
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Status 🔺	Sev 🔹	CVSS • VPR	• Name 🔺				Family 🔺			Count 🔹			Scan Detail	s			
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enabled			Nessus Scan Inf	formation			Settings				Ø		End: Elapsed:	Today 8 minu	at 10:14 AM ites		
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		J		mation			General				0				<ul> <li>Critical</li> <li>High</li> </ul>		
															<ul><li>Medium</li><li>Low</li></ul>		
															<ul> <li>Info</li> </ul>		
		STATUS	PLUGIN FAMILY			LOCKED	TOTAL	STATUS	PLUGIN NAME							PL	UGIN ID 🔺
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		ENABLED	Alma Linux Local Se	ecurity Checks			1049	ENABLED	Access Point We	b-browser l	nterface '	Vulnerat	oility			48	993
-		ENABLED	Amazon Linux Loca	al Security Checks			3828	ENABLED	Cable Modem Te	ermination :	System A	uthentic	ation Bypass -	Cisco Syst	ems	48	966
		ENABLED	Backdoors				123	ENABLED	Cisco SD-WAN v	Manage Un	authentic	ated RES	ST API Access (	isco-sa-vr	nanage-unautha	pi-s 17	8185
		ENABLED	Brute force attacks				25	ENABLED	Cisco 10000 Seri	ies Denial o	f Service '	Vulnerat	oility (cisco-sa-2	0110928-	c10k)	56	313
		ENABLED	CentOS Local Secur	rity Checks			4261	ENABLED	Cisco 10000, uBl	R10012, uBl	R7200 Sei	ries Devi	ces IPC Vulner	ability - Cis	sco Systems	49	020
		ENABLED	CGI abuses				5351	ENABLED	Cisco 12000 Seri	ies Router I	CMP Unre	eachable	DoS			10	971
		ENABLED	CGI abuses : XSS				703	ENABLED	Cisco 12000 Seri	ies Routers	۸ultiple	Vulnerab	oilities (DoS, AC	L Bypass)		10	970
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		ENABLED	DNS				231	ENABLED	Cisco 9900 Serie								725
		ENABLED	F5 Networks Local S				1294	ENABLED	Cisco Access Poi								2202
		ENABLED	Fedora Local Securi	ity Checks			17678	ENABLED	Cisco ACE 4710								427
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		ENABLED	FreeBSD Local Secu	urity Checks			5382	ENABLED	Cisco ACE30 and								127
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## **EDGENETIC**



## Customer Challenge

- Lack of visibility
- Manual processes
- Integration challenges
- Reporting challenges
- Keeping up with changes

#### GOIP Group Benefits

- Reduced risk of penalties and fines
- Improved reputation
- Competitive advantage
- Improved productivity







# **EDGENETIC Native Protection** Penetration Test (Pen Test)





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#### **EDGENETIC NATIVE PROTECTION PENETRATION TEST (PEN TEST)**

# **EDGENETIC** Native Protection Penetration Test (Pen Test)





- Security and Risk Management
- Cybersecurity Asset Management
- Cybersecurity Architecture and Engineering
- Secure network Transmission and data
- Communication Identify and Access Managemen (IAM)
- Security Data Assessment and Testing
- Backup and Disaster Recovery (BDR)
- Data Security Operation Other







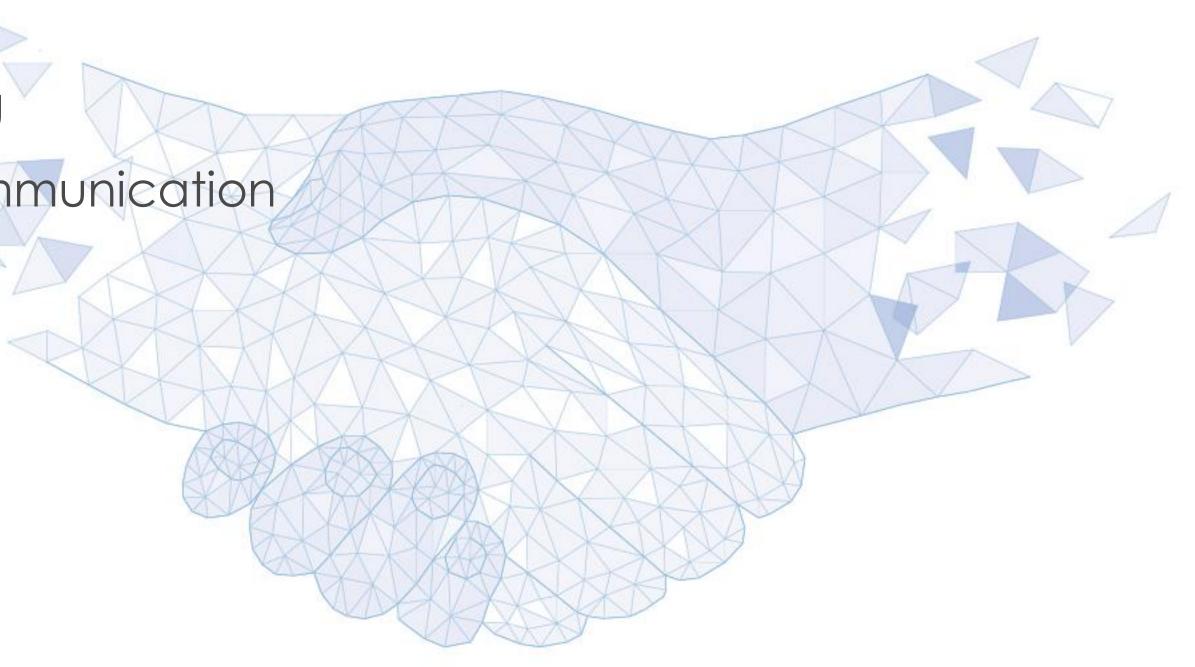
# Penetration Test (Pen Test)

# Security and Risk Management

- Asset Management
- Cybersecurity Architecture and Engineering
- Secure Network Transmission and Data Communication
- Identify and Access Management (IAM)
- Security Data Assessment and Testing
- BACKUP and DISASTER RECOVERY
- Data Security Operation
- Other

# EDGENETIC







#### <1> Security and Risk Management

#### <1.1> Evaluate and apply security government principles

- Objectives

  - 2. Review any other relevant policies, regulations and compliance are mandatory complied (HK/China)
- Our team shall
  - are satisfied the compliances and regulation in law between Hong Kong and China
  - Report the findings and share our recommendations for management review in scheduled meeting
  - Add and follow the task with relevant department until completed at the end.
  - Schedule the regular meeting with management board if necessarily.
- Other service shall include:
  - To compile Personal Protection law and DCMM standard in China, our additional cost may incur :
  - Language translation (Chi <> Eng )
  - Documents (It has to be notarized or certified and recognized by China Government)
  - Shipping
  - More communications among different parties
  - Searching any specialist to support any data clarification if necessarily.

Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.

### EDGENETIC



1. To ensure your policies and procedures keeps your organization up to date with regulations in law and industry best practice (HK/China)

• Cooperate with registered auditor and legal representative to review the contents in each lines with current documents, and ensure that



#### <1> Security and Risk Management

#### <1.1.1> Alignment of Alignment of the security function to business strategy, goals, mission and objectives

- Our team shall
  - role in organization,
  - and effectively to communicate the importance of data security to all level of organization.
  - Propose appropriate security measures under budgets while developing new policies, procedures, and guidelines with her concerns.
  - Prepare the Questionnaire and interview with relevant people at different level of organization, then collect the data for designing the measures and guidelines.

#### • <1.1.2> Establish Security control Frameworks

- Our team shall
  - Establish security control frameworks for managing risk and reducing vulnerabilities
  - information security controls.
  - Security Control Frameworks consist:
  - To define and prioritize the tasks required to manage organize security
  - To help for preparing compliance and other IT audits, such as ISO 38505, ISO 8000 and DCMM (China) Standard

Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.

## EDGENETIC



• Require our Chief Information Security Officer, CISO to ensure the alignment of security functions and business within your specific

• Contain a series of documented processes that define policies and procedures around the implementation and ongoing management of



#### <1> SECURITY AND RISK MANAGEMENT

#### <1.2> Determine other compliance and requirements

- Our team shall
  - Summarize and finalize all relevant standard, compliance and regulations in terms of data security across China and Hong Kong, such as
    - < Item 1.2.1 > ISO38505 / ISO 8000
    - < Item 1.2.4 > DCMM (China)
      - Our CN Team shall review and verified your supporting documents through pre-evaluation. if failure, our team may advise to alter the document formats and language until it's pass.
  - <Item 1.2.2> Personal Data Privacy (Hong Kong)
  - <Item 1.2.3.1 > Personal Protection Law (China)
  - Besides, it might be considered as :
    - The Guidance on Personal Data Protection in Cross-Boarder Data Transfer
    - The cross-border transfer outside mainland China (data export)
- Communicate decision-marker to consider whether these relevant requirement compliance added into compliance checklist, for example:
  - Communication by email / meeting / Interview
  - Establish Risk Acceptance and tolerable period of disruption (MTPD)
  - Business Impact Assessment
  - Specialist information security advice

Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.

# EDGENETIC



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#### <1> SECURITY AND RISK MANAGEMENT

#### <1.3> Develop, Document and implementation

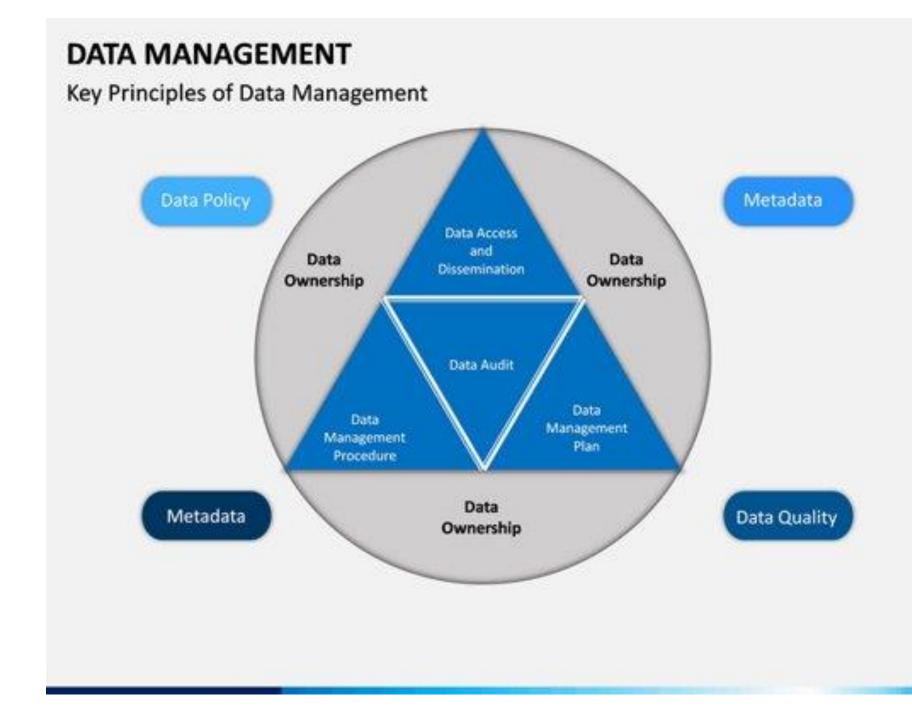
(Data Security Policy / Standards / Procedures / Guidelines)

In reference by industry standards, security policies and legal principles across Hong Kong and China, we shall >>> Set out these specific set of principles and process relating to data governance, there are:

- <Item 1.3.1> Data Management Manuel with frameworks policies and guidelines
  - Data Policy development
  - Data Ownership
  - Metadata Compilation
  - Data Lifecycle Control
  - Data Quality; and Data Access and Dissemination etc.
- <Item 1.3.2> Data Cross Boarder Transfer Management Guideline
  - Cross Data Policy development
  - Cross Data Ownership
  - Metadata Compilation
  - Data Lifecycle Control
  - Data Quality; and Data Access and Dissemination etc.

## EDGENETIC







#### <1> SECURITY AND RISK MANAGEMENT

#### <1.4> Boost Security Awareness

(Training / Model Appropriate Behavior/ POP-UP Alerts tool etc.)

#### **GDPR: THE DATA PROTECTION OFFICER (DPO)**

#### **DPO: mandatory in 3 cases**

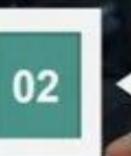
#### PUBLIC AUTHORITY

Processing of personal data done by public authority, except for courts or independent judicial authorities when acting in their judicial capacity.





GDPR/PRIVACY EXPERT EMPLOYEE/EXTERNAL MONITOR COMPLIANCE ASSIST WITH GDPR INDEPENDENT REPORT TO MGMT SPOC/REGISTERED SECRECY CONFIDENTIALITY



LARGE SCALE REGULAR MONITORING

Processing by a controller whose core activities consist of processing operations that require regular and systematic monitoring of the data subjects on a large scale.

#### LARGE SCALE SPECIAL DATA CATEGORIES

Core activities of the controller or the processor consist of processing on a large scale of special categories of personal data and data relating to criminal convictions and offences.





# $\Xi D G \Xi N \Xi T I C$



#### • Our team shall

- <Item 1.4.1> Present latest Data threat protection technique with legal awareness in training, including
  - Training material and certified tutor
  - Invite speakers to presentation
  - Activities
  - Assist to set up the **POP-UP** awareness tool for reminder in Help desk
  - Remarks : the cost is considered the number of employee engagement; the minimum Charge is \$300K(HK\$)
- <Item 1.4.2> Understanding requirement for investigations either by legal authorities or Auditors
  - Providing training material
  - Invite guest Tutor : legal practitioner / the Specialist of data security/ accredited auditor
  - Invite speakers to presentation
  - Set-up and plan education activities after training



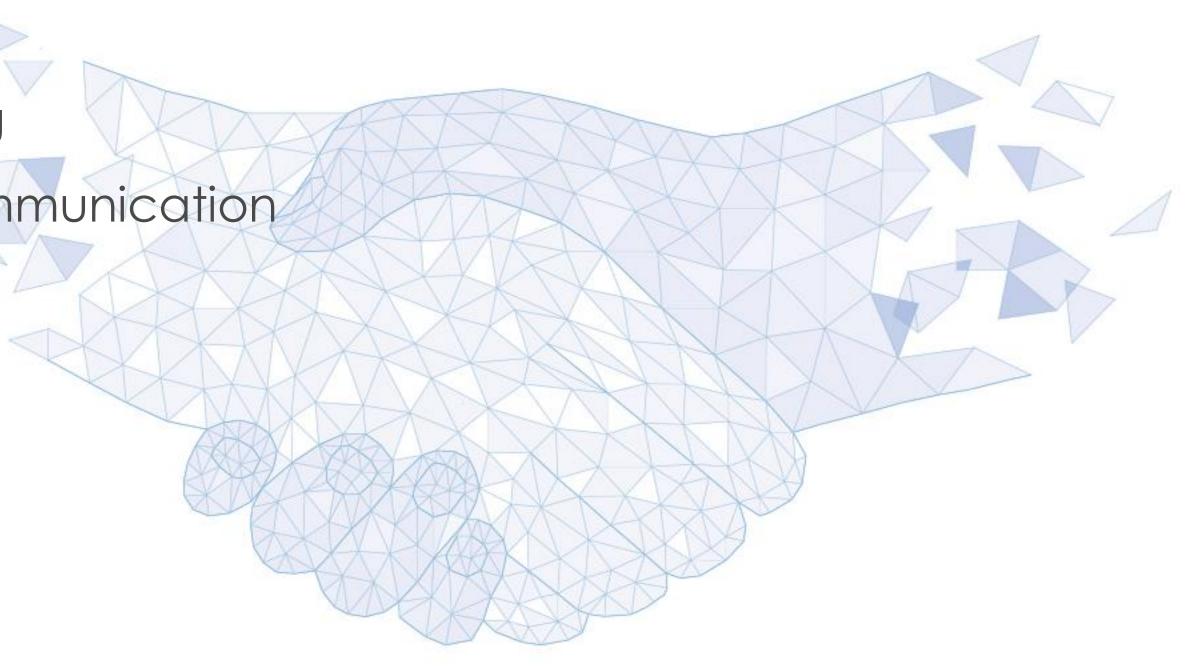


# Penetration Test (Pen Test)

- Security and Risk Management
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- BACKUP and DISASTER RECOVERY
- Data Security Operation
- Other

# $\Xi D G \Xi N \Xi T I C$





#### Our team shall

- < Item 2.1 > Collecting, Identify and classify data information, scan and categorize assets in inventory automatically.
  - Require Data Inspection team to use the tools for data scanning and integration during office hour.
  - Use "source scanning " tool to collect data information from different sources and creating a single, unique, dataset for visualization and analysis.
  - Using a platform that automatedly integrate and optimize these data in storage.
  - Remarks : The cost is subjected to the total number of IP or device at the end points, then will choose the greater number in total.
- <Item 2.2 > provide "Manage Data Life Cycle (DLM) Guidelines"
  - Review the result from the summary of compliance and business continuity
  - Set-up the policy-based approach to oversee the flow of data information from data entry to data destruction.
  - Allocating experienced people to coordinate the tasks and communications among parties in organization.

Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.







- Our team shall
  - <Item 2.3 > Data Assessment : the states of data / Scoping and tailoring / standard selection
  - Objectives: Managed all technology assets from purchase throug disposition, both physical and virtual, to ensure secured use, regar of the asset's location.
    - Completeness check
      - Our audit identified an error in the calculation of the PI re"Percentage of planned of responsive repairs". Void repairs were treated as planned but they should responsive. The PL recalculated and was then assessed as being fairly stated
    - Data quality spot checks
      - carried out an in-depth review, using a series of audit tests, sample of PIs to determine whether arrangements to secure data quality are delivering accurate, timely and accessible information



File ref	Finding	Recommendation	Priority	Response	Target date	Responsible Officer						
R17 EX.82 K.7.PS	The indicator was not correctly stated as it was based on incomplete data (ie some quarterly returns were not loaded onto SPOCC) and data relating to the wrong time period (ie 2006/07).	Recalculate indicator based on complete data and correct time period. Also, put in place procedures to ensure that all returns are loaded to SPOCC and the associated data included in the calculated PI.	High	Revised report provided 12 October 2006, giving indicator of 66.85 per cent.	2006/07	Tracey Chapman, Supporting People Co-ordinator						
Average	Average relet times											
R18 EX.66 K.8.PS	The original data provided for this indicator related to the wrong period and was therefore incorrect.	Revised indicator to be submitted using the correct time period.	High	Revised data provided. PI amended to 45.87.	2005/06	Clare Dowds, Letting Manag						
R19 EX.76 K.8.PS	<ul> <li>In a sample of 20 cases tested the void start dates were incorrect in all cases.</li> <li>16 cases had the date the keys were handed in, instead of the day following per the HIP indicator instructions.</li> <li>4 cases where the tenant had given notice to quit and the final day of the notice was used as the void start date instead of the day following receipt of the keys from the tenant.</li> </ul>	The correct void start date should be used. The errors noted had a non material effect on the PI which was reported as fairly stated.	High	Our practices reflected new BVPI 212 (effective from 2006/07) in taking the void as end of tenancy. By using day key received which was routinely Monday, for the tenancy ending at midnight on Sunday we showed more accurately the time keys with us and available even if this meant additional void days.		Clare Dowds, Letting Manag						
R20 EX.77 K.8.PS	The Council used the incorrect end of void date in cases where the tenant collected the keys after the tenancy date.	The correct end date must be used. ie the date the tenant collected the keys if it is later than the tenancy date. The errors noted had a non material effect on the PI which was reported as fairly stated.	High	Agreed Guidelines were issued during the period to advise that keys should not be issued later than start of tenancy, except in exceptional cases, at the request of the incoming tenant. These cases were very rare and guidance will be reissued to reiterate.	2006/07	Clare Dowds, Letting Manag						





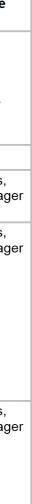


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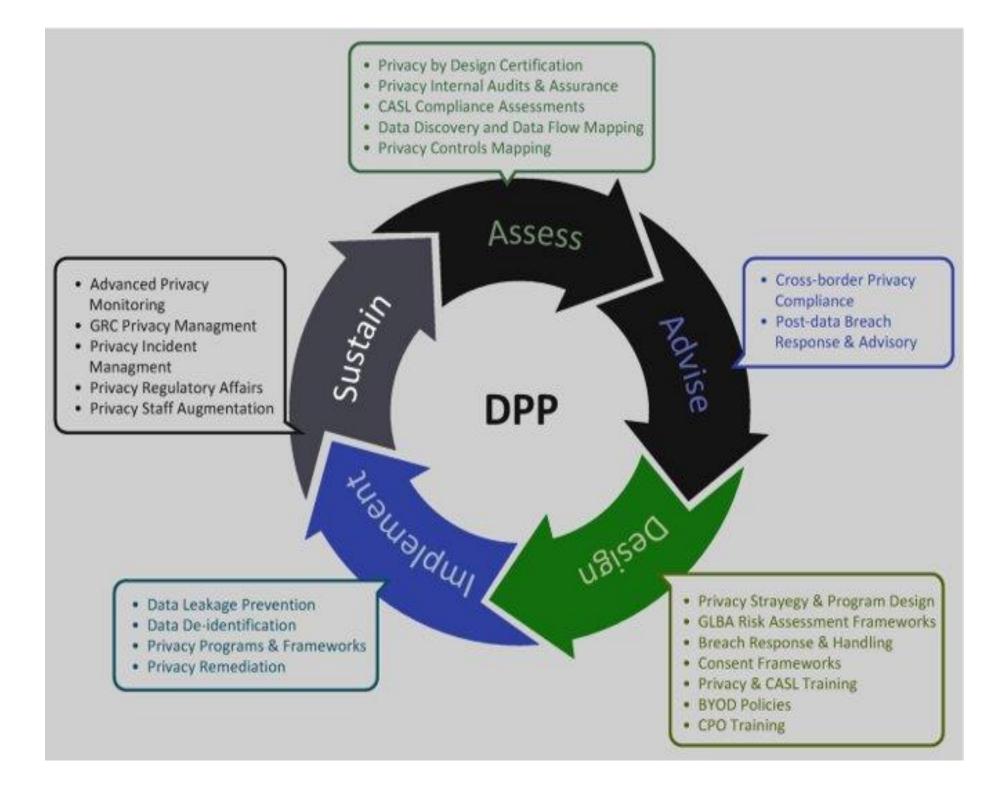
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Average	relet times					
R18 EX.66 K.8.PS	The original data provided for this indicator related to the wrong period and was therefore incorrect.	Revised indicator to be submitted using the correct time period.	High	Revised data provided. PI amended to 45.87.	2005/06	Clare Dowds, Letting Manage
R19 EX.76 K.8.PS	<ul> <li>In a sample of 20 cases tested the void start dates were incorrect in all cases.</li> <li>16 cases had the date the keys were handed in, instead of the day following per the HIP indicator instructions.</li> <li>4 cases where the tenant had given notice to quit and the final day of the notice was used as the void start date instead of the day following receipt of the keys from the tenant.</li> </ul>	The correct void start date should be used. The errors noted had a non material effect on the PI which was reported as fairly stated.	High	Our practices reflected new BVPI 212 (effective from 2006/07) in taking the void as end of tenancy. By using day key received which was routinely Monday, for the tenancy ending at midnight on Sunday we showed more accurately the time keys with us and available even if this meant additional void days.		Clare Dowds, Letting Manage
R20 EX.77 K.8.PS	The Council used the incorrect end of void date in cases where the tenant collected the keys after the tenancy date.	The correct end date must be used. ie the date the tenant collected the keys if it is later than the tenancy date. The errors noted had a non material effect on the PI which was reported as fairly stated.	High	Agreed Guidelines were issued during the period to advise that keys should not be issued later than start of tenancy, except in exceptional cases, at the request of the incoming tenant. These cases were very rare and guidance will be reissued to reiterate.	2006/07	Clare Dowds, Letting Manage







#### <2> ASSET MANAGEMENT



### $\Xi D G \Xi N \Xi T I C$



#### • Our team shall

#### <Item 2.4 >

Design and Establish Data Protection methods (eg. Data Loss Prevention, DLP, Digital Rights Managment (DRM) and Identity and Asset Management (IAM) Completeness check

- i. Our plan is referred by "DPP work cycle" as shown on picture.
- ii. Remarks: The cost is subjected to the number of IP, the scale of data size with minimum charges 200K(HK\$) and the level of data protection





# Penetration Test (Pen Test)

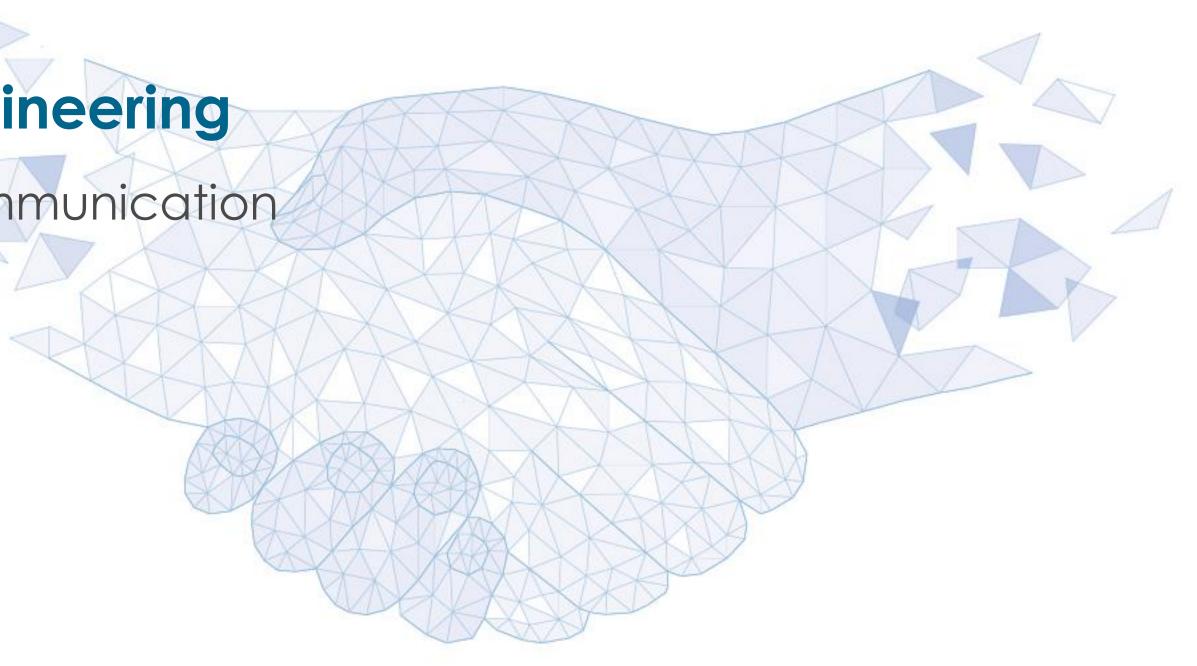
- Security and Risk Management
- Asset Management

# Cybersecurity Architecture and Engineering

- Secure Network Transmission and Data Communication
- Identify and Access Management (IAM)
- Security Data Assessment and Testing
- BACKUP and DISASTER RECOVERY
- Data Security Operation
- Other

# $\Xi D G \Xi N \Xi T I C$







#### <3> CYBERSECURITY ARCHITECTURE AND ENGINEERING

#### • Our team shall

<ltem 3.2 > Assess and mitigate the internal vulnerabilities of security architectures, designs and solutions elements

- By satisfying the data protection policies in China and Hong Kong, we choose CN government recognized platform so called "啟明星辰" and "Acunetix" for assistance.
- Require one CN and HK team to conduct this internal vulnerabilities assessment on site and consolidate two different results into one, also share our comments for improvement accordingly.





## EDGENETIC

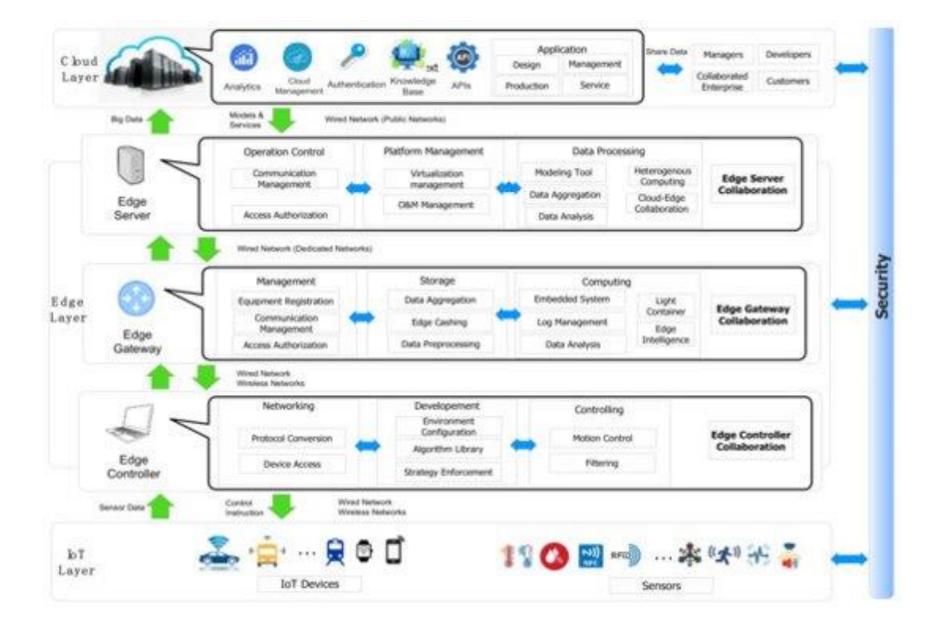




(Our assessment covered the device and system, such as Client-base systems / server-based systems / Satabase systems / Industrial Control Systems or Internet of Things, IOT etc.)



#### <3> CYBERSECURITY ARCHITECTURE AND ENGINEERING



## EDGENETIC



• Our team shall

<ltem 3.2 > Design site and Facility security controls eg. data evidence storage

- Require certified expertise to conduct site survey whether has any potential impacts on data storage and the result would be showed on the site inspection report.
- Design and plan the facility security control in view of data protection requirement, including access control, CCTV and Video Surveillance and Security integration and Growth Monitoring



#### <3> CYBERSECURITY ARCHITECTURE AND ENGINEERING

• Our team shall

<Item 3.2 > Assess and mitigate the internal vulnerabilities of security architectures, designs and solutions elements (Our assessment covered the device and system, such as Client-base systems / server-based systems / Satabase systems / Industrial Control Systems or Internet of Things, IOT etc.)

- "Acunetix" for assistance.
- comments for improvement accordingly.







• By satisfying the data protection policies in China and Hong Kong, we choose CN government recognized platform so called "啟明星辰" and

• Require one CN and HK team to conduct this internal vulnerabilities assessment on site and consolidate two different results into one, also share our





# Penetration Test (Pen Test)

- Security and Risk Management
- Asset Management
- Cybersecurity Architecture and Engineering

# Secure Network Transmission and Data Communication

- Identify and Access Management (IAM)
- Security Data Assessment and Testing
- BACKUP and DISASTER RECOVERY
- Data Security Operation
- Other

# EDGENETIC





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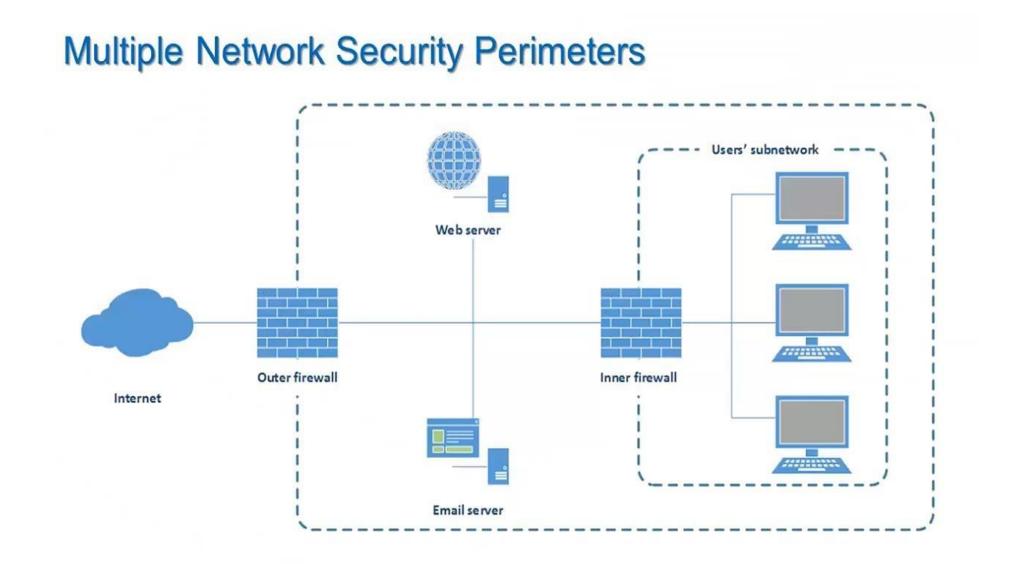


#### <4> SECURE NETWORK TRANSMISSION AND DATA COMMUNICATION

#### • Our team shall

<Item 4.1> Check the network protocols, patching, systems and hardware, which are sufficient to guard your data transmission in the current physical network.

- Require the experienced network field engineer to perform the on-site inspection.
- number of IP and devices.



## EDGENETIC



• Remarks : This service is covered the range of data originated hosting location only, otherwise, the cost shall be subjected to change by the total

OSI Model Layer	s Protocols	-
Application Presentation Session	SMTP, FTP, DNS, WWW, HTTP, TELNET	Application Layer
Transport	TCP, UDP	Transport Layer
Network or Internet	ARP, RARP, IP, ICMP	Network Layer
Datalink Layer Physical Layer	Specific to the underlying media at hardware level.	Interface Layer

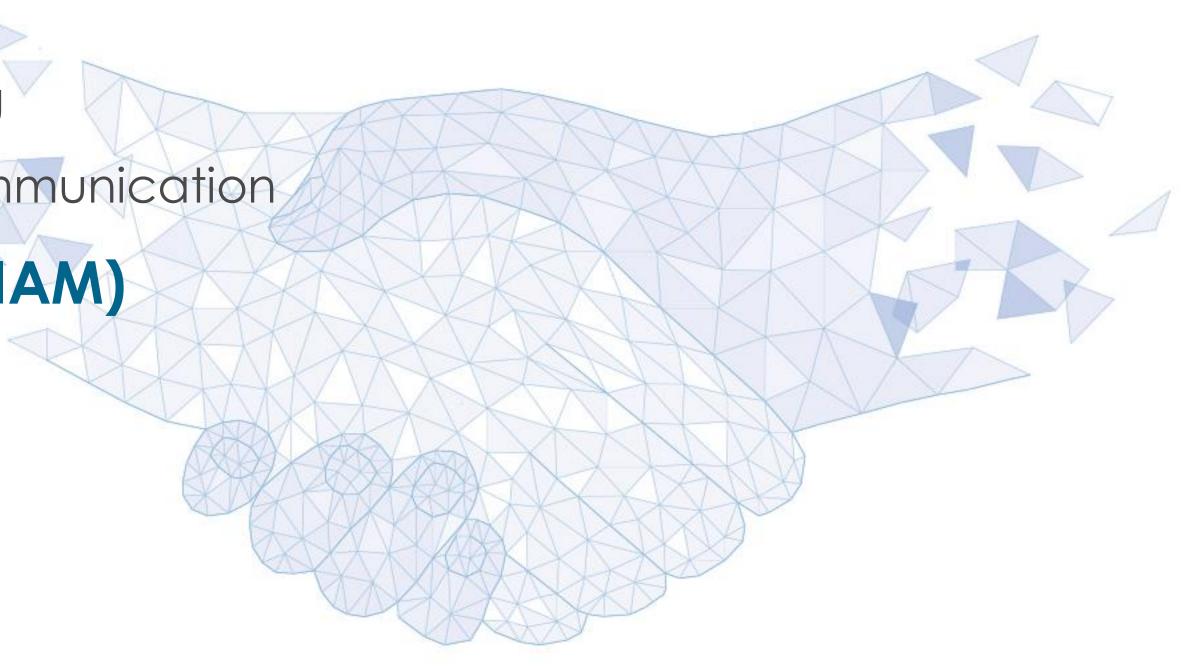


# Penetration Test (Pen Test)

- Security and Risk Management
- Asset Management
- Cybersecurity Architecture and Engineering
- Secure Network Transmission and Data Communication
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- BACKUP and DISASTER RECOVERY
- Data Security Operation
- Other

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#### <5> IDENTIFY AND ACCESS MANAGEMENT (IAM)

#### • Our team shall

- <Item 5.1> To plan the management of authorization mechanism
  - working progress.
- <Item 5.2> To implement the authentication system
  - To adopt the well-known platform of "ManagedEngine". It enables to centralize your user access from multiplied platform into one.
  - build-up the network connection etc.

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Users logged into mu computers	ltiple					PM		credentials for an account.			
Local Logon-Logoff	•	administrator	ITS-SG2-	ITS-SG2-	admandemo.admanagerplus.com	Apr	Success	The computer	admanagerplus.com	MICROSOFT_AUTHENTICATION_PACKAGE_V1_0	47
ADFS Auditing	•		WIN2012	WIN2012		23,2020 02:09:51		attempted to validate the			
Account Management	•					PM		credentials for an account.			

• The cost is changed subject to the number of users, hardware and circuit as required.

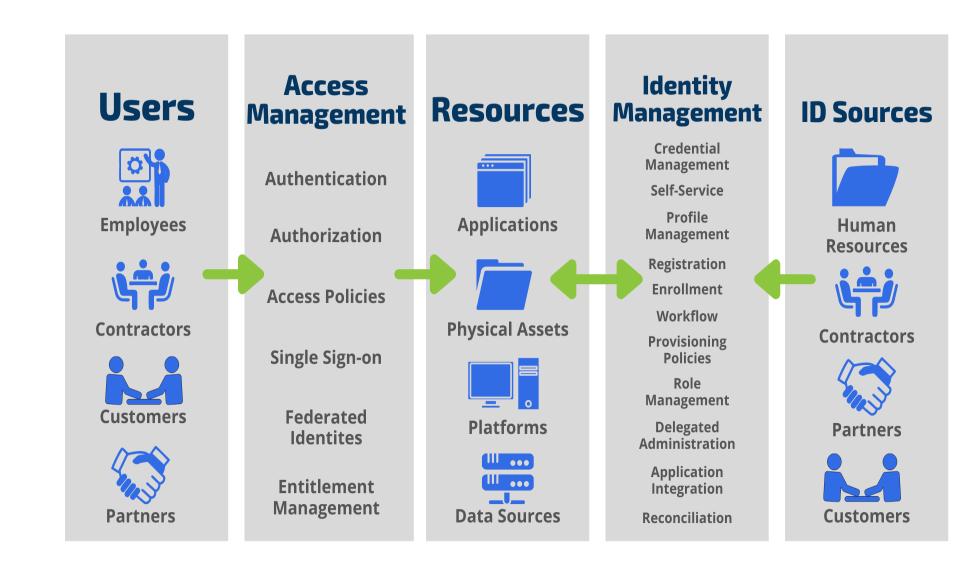
# EDGENETIC





• Required security team to design and communicate our mechanism with specific team, then provide the plan how to perform the authorization in

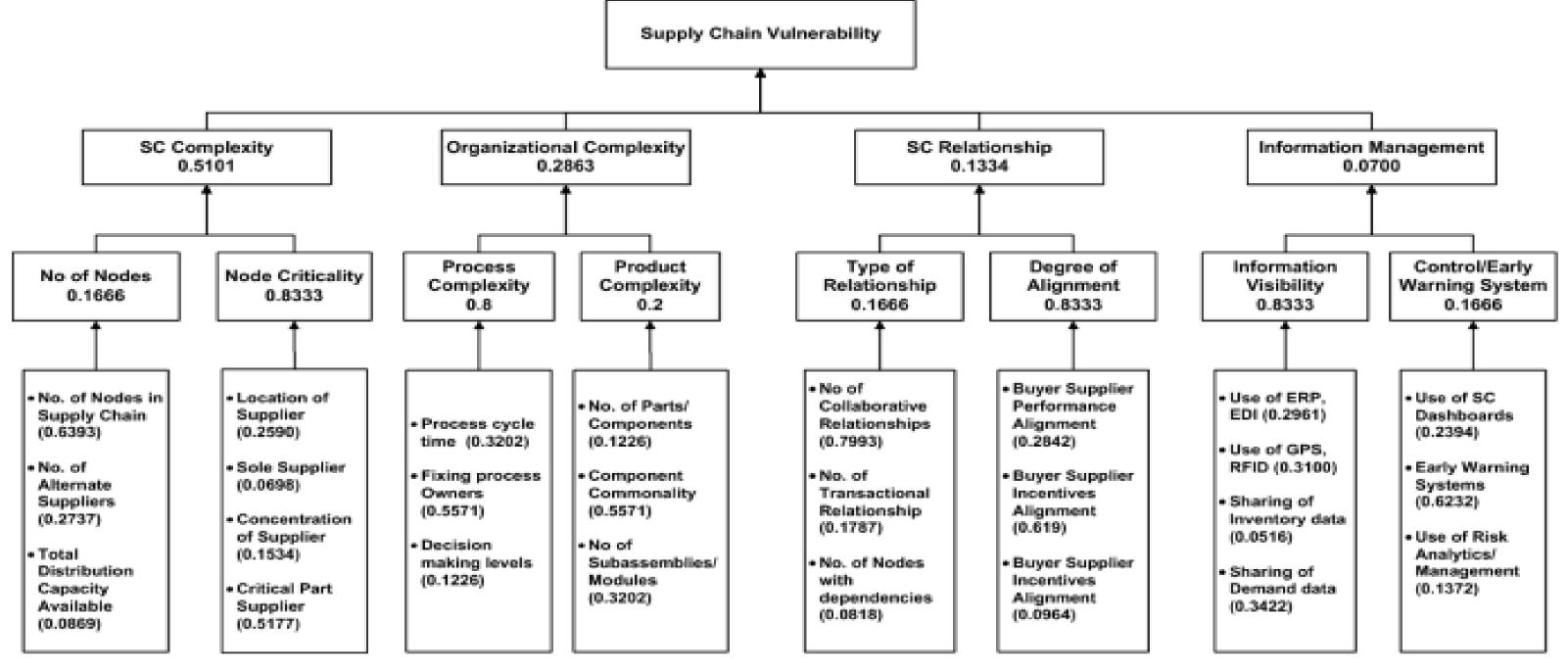
• Required the data security team and system engineer to migrate the data from initial to the new platform, set-up the new policies and rules in configuration, or







#### <6> SECURITY DATA ASSESSMENT AND TESTING



<ltem 6.1> Design and validate Supply Chain Vulnerability assessment, test and audit strategies (Focused on data communication with third parties of channels, suppliers and vendors etc.)

- Validate and improve security tool detection and response capabilities
- Prioritize efforts by correlating attacks to the findings of vulnerability management systems, Streamline security task management with IT and then track, monitor, and assure that security gaps are being closed
- Required dedicated China and Hong Kong Security team with professional security specialists cooperated with our networking team to conduct this assessment together.

## EDGENETIC



• Remarks : The cost is changed subjected to the number of nodes and the network complexity of DMZ (Demilitarized Zone)



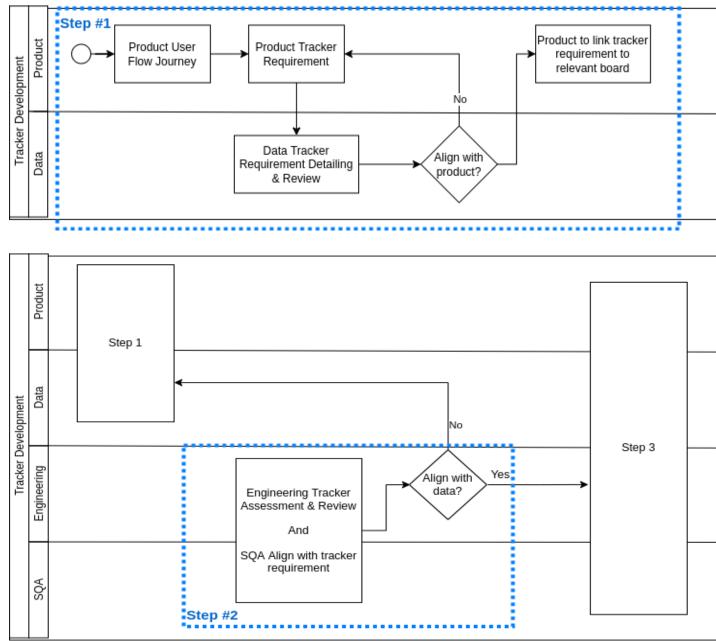


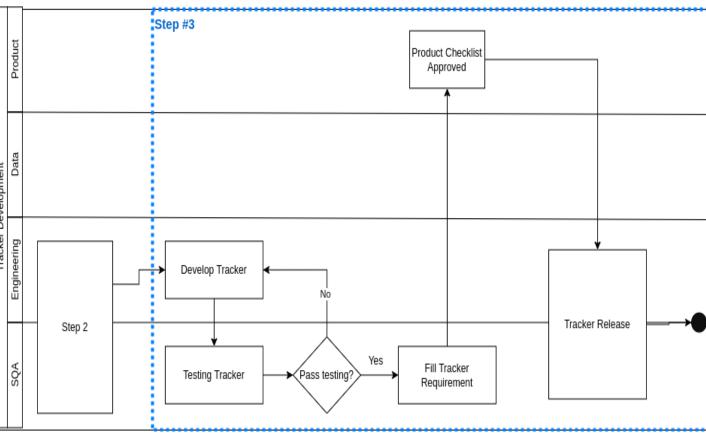
#### <6> SECURITY DATA ASSESSMENT AND TESTING

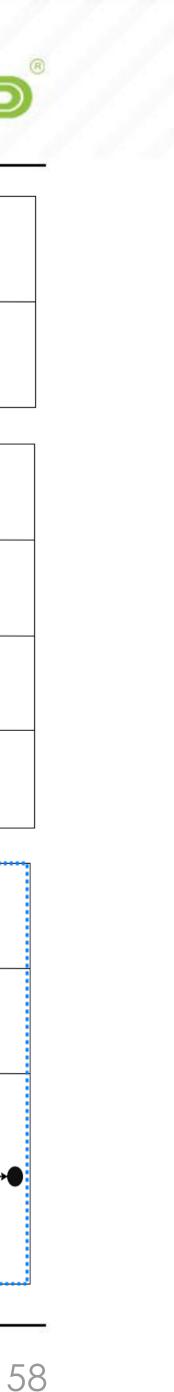
<Item 6.2> Data Track Safety (DTS) Assessment

- It required data protection specialist, back-end and front-end engineers are accountable for the technical decision on the data tracking requirements
- It required another three main functions that are involved throughout this process, namely,
  - Product Manager, Data Analyst, Software Engineer
- The relevant work is shown on the right of workflow
- The cost is considered by data hosting at the place of local network only.









### 6> SECURITY DATA ASSESSMENT AND TESTING

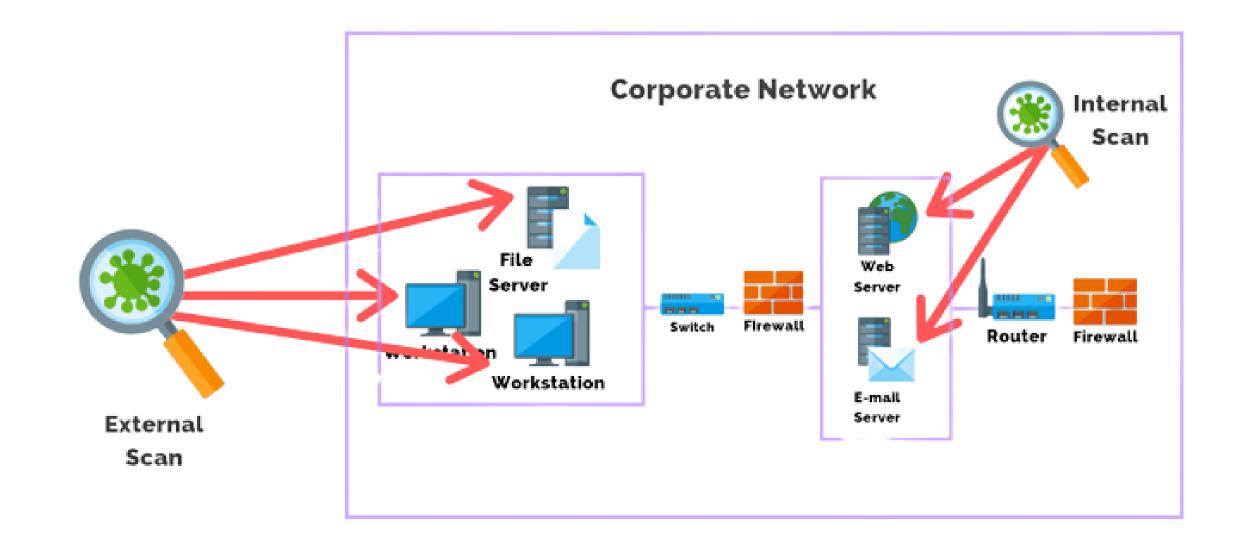
Vulnerability Assessment (External and Internal)

- Required dedicated security specialist to conduct the assessment until completion.
- Using CN platform for scanning with license of "啟明星辰", "Acunextix" and even "Nexus" for assistance.
- Required our general assistants to consolidate the results from above platforms and lately revert to specialist's review and analysis.
- If there is internal vulnerability Assessment, our engineer should conduct the site visit and perform the on-site assessment respectively
- If fail, we should suspend the test on another working days e,g.t Internet disconnection
- Remarks : The cost is changed by the number of IP and nodes in DMZ, the minimum charge is 150K(HK\$)

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#### <6> SECURITY DATA ASSESSMENT AND TESTING

Manual Penetration Testing

- Physical Penetration Test (two Common Attack Vectors)
  - Social Engineering is the art of manipulating people so they give up confidential information
  - Bypassing Security Cameras can allow unauthorized physical access to sensitive areas
- Network Penetration Test (two Common Attack Vectors)
  - Phishing
  - A Distributed Denial Of Service Attack (DDOS)
  - A Man-in-the –Middle Attack (MitM)
- Mainly focused on manual P-test and consider automated platform liked "Acunetix "or "Pentera" for assistance if necessarily.
- To conduct this manual P-Test by our team, including Social Engineer, security data specialist, Red and Blue team etc.
- Remarks : The cost is changed by the number of IP and nodes in DMZ, the minimum charge is 150K(HK\$)



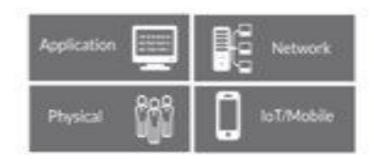


#### WHAT IS A PENETRATION TEST?



An authorized attack on a or application to identify security vulnerabilities bad actors might exploit.

#### Types of Penetration Tests





FORMATION GATHERING

Identify security

vulnerabilities

Validate compliance with policies

Evaluate effectiveness of defenses.





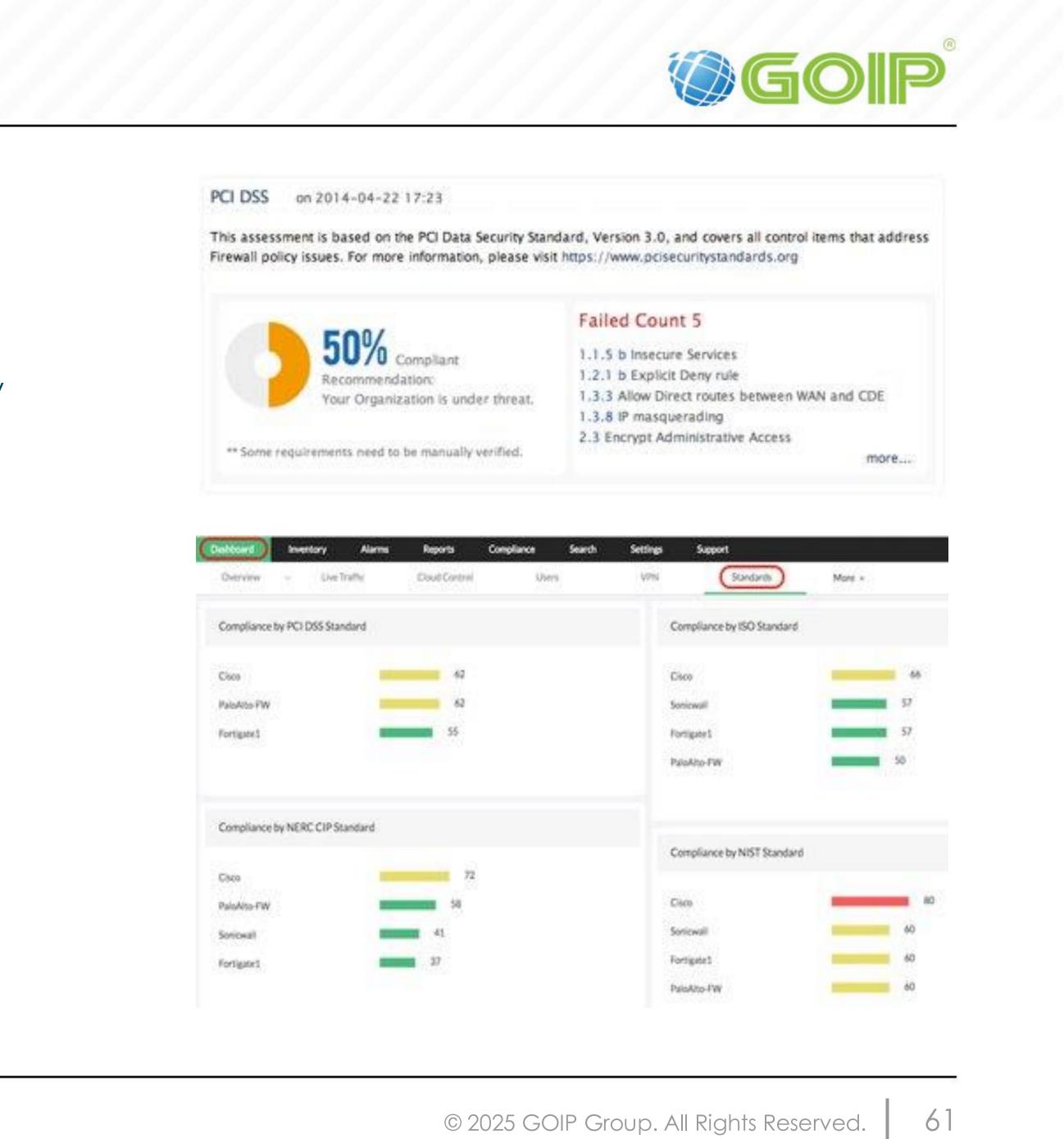




#### <ltem 6.5> Log Reviews / Synthetic transactions / Code review and testing

- Our engineer is required to be manually reviewing logs or setting up log analysis tool/filter i.e. splunk
- Required Information security team and networking team to check and review the logs and even conduct the testing on site locations.
- Using the automated platform with licensed in ManageEngine for assistance

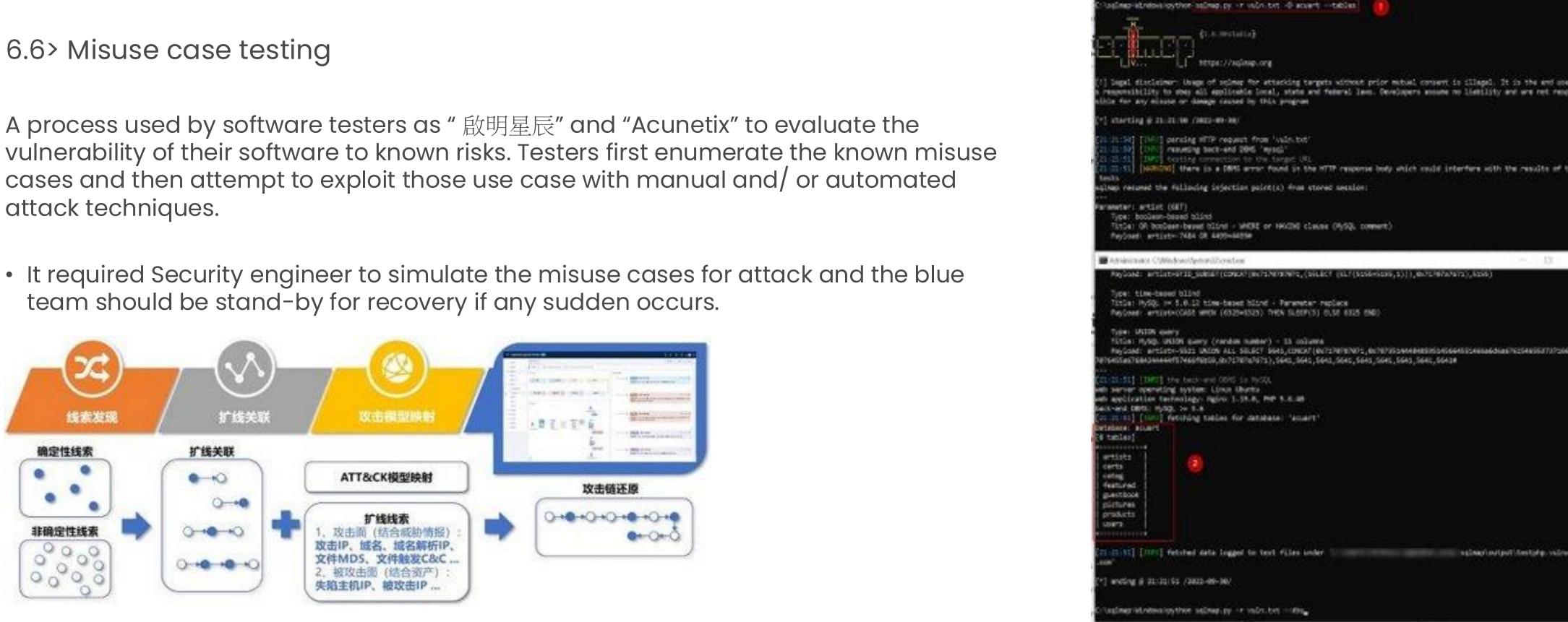






#### <6> SECURITY DATA ASSESSMENT AND TESTING

Item 6.6> Misuse case testing



Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.





Straining of COMpleteney System (27) reals



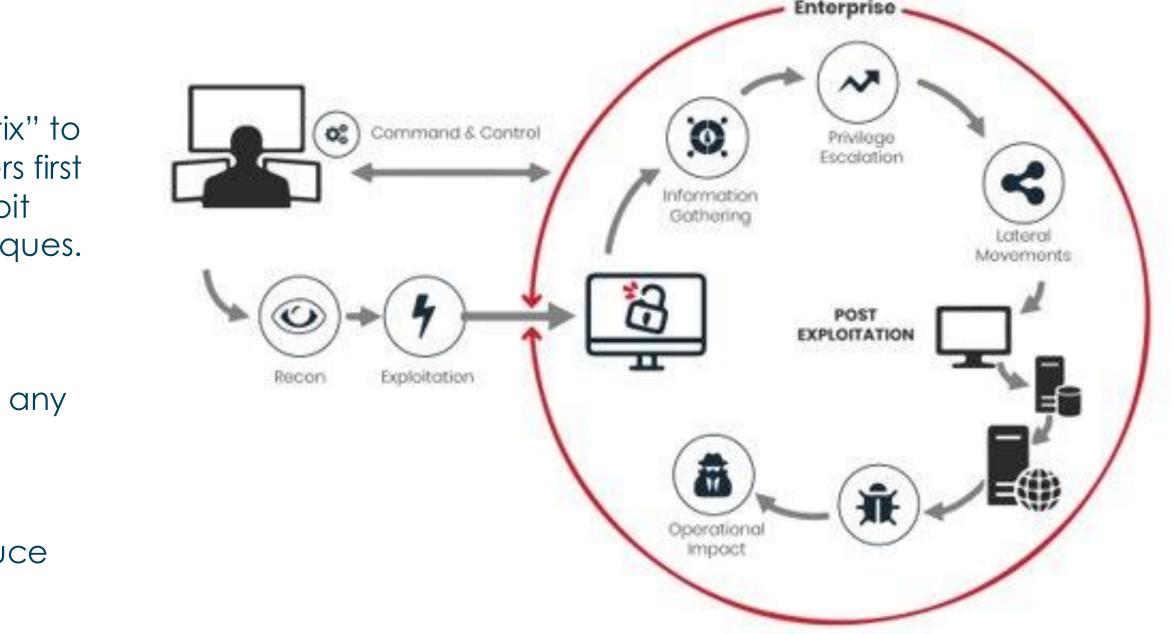
<Item 6.7> Breach Attack Simulation

A process used by software testers as " 啟明星辰" and "Acunetix" to evaluate the vulnerability of their software to known risks. Testers first enumerate the known misuse cases and then attempt to exploit those use case with manual and/ or automated attack techniques.

- It required Security engineer to simulate the misuse cases for attack and the blue team should be stand-by for recovery if any sudden occurs.
- Networking team should provide the back-up plan and reduce the impact on network from our breach attack simulation.

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#### <6> SECURITY DATA ASSESSMENT AND TESTING

#### <ltem 6.8> Compliance Checks

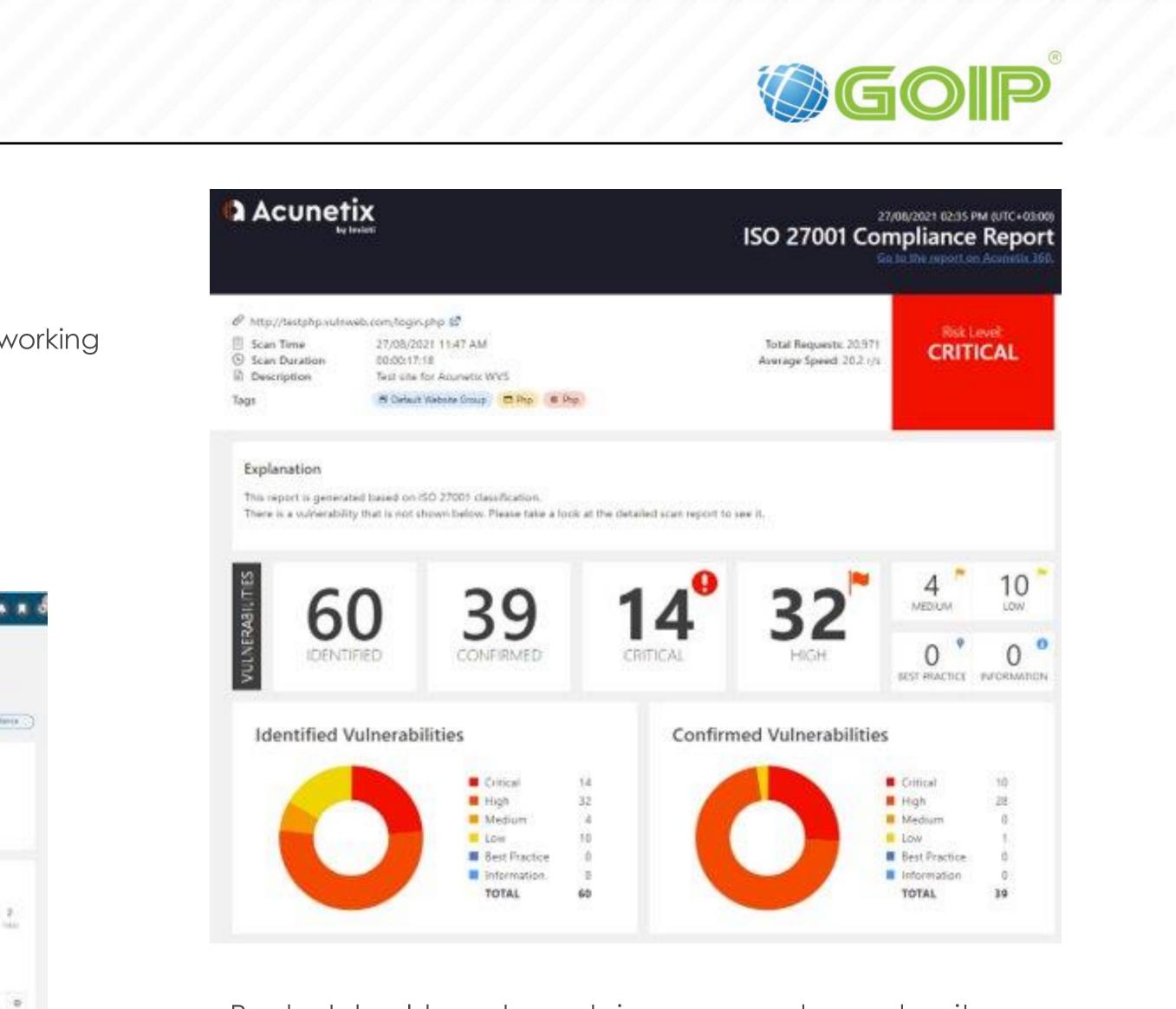
- A process used Required dedicated security specialist and networking team to conduct the assessment until completion.
- Using CN platform for assessment which are so called "啟明星 辰", "Acunextix" and even "Nexus" for assistance.

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Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.

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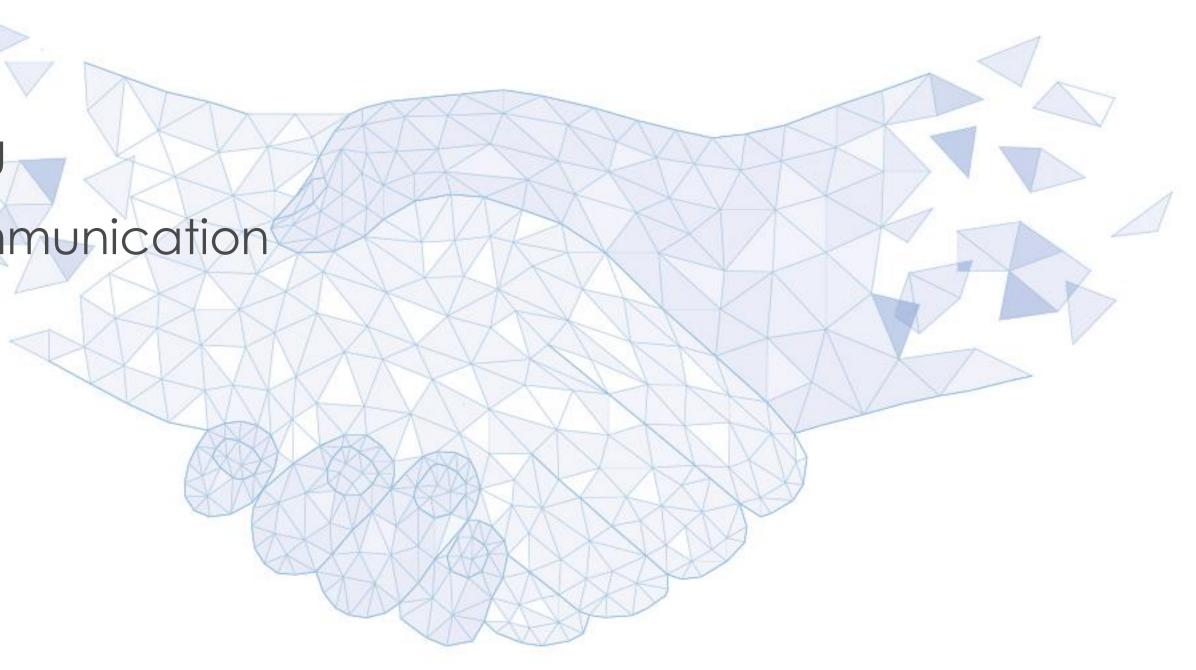
# Penetration Test (Pen Test)

- Security and Risk Management
- Asset Management
- Cybersecurity Architecture and Engineering
- Secure network Transmission and data Communication
- Identify and Access Management (IAM)
- Security Data Assessment and Testing

# BACKUP and DISASTER RECOVERY

- Data Security Operation
- Other EDGENETIC







<Item 7.1> Backup Verification Data Guidelines

Under the standard of National Institute of standards and Technology, **NIST** 

• Required experienced data specialist setup the scope of the back-up plan and disaster recovery guideline, and establish the procedure to verify that each daily backup is completed

• To provide the training for primary staff on the procedure and train secondary staff in case of absence or turnover so that it can avoid any knowledge gap

• Our team will constantly test backups, verify the procedures are working as planned and ensure that employees are adequately trained

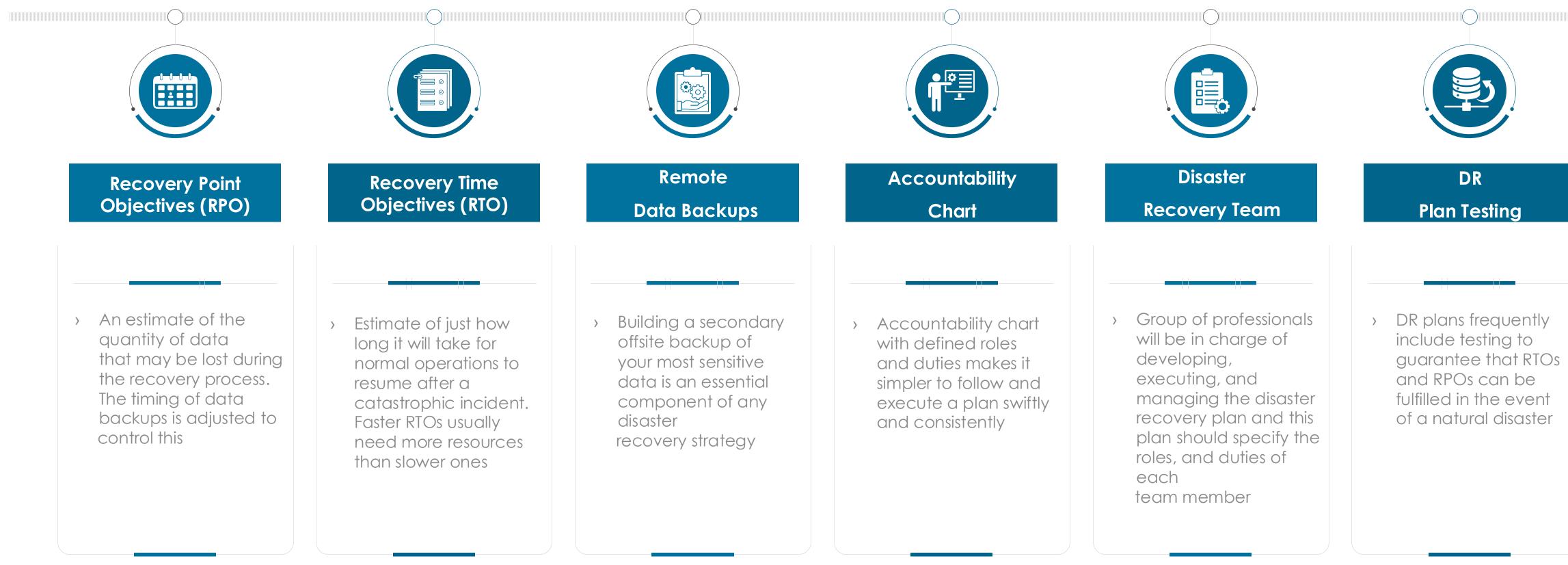






#### <7> Backup and disaster recovery(BDR)

#### <ltem 7.1 > Essential Elements of Disaster Recovery Plan



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### <7> BACKUP AND DISASTER RECOVERY(BDR)

<ltem 7.2> Analyze test result and generate report (including Remediation / Exception handling / Ethical disclosure)

Analysis of the Security Assessment Data

Required Information security team and security specialist to review and analyse the result, then subsequently conclude and appear their insights, remediation, exception handling and ethical in the comprehensive backup and disaster recovery report

- Consider what information provided to you is incomplete or might be a lie or half-truth.
- Look for patterns by grouping your initial findings by the affected resources, risk, issue category, etc.
- Identify for trends that highlight the existence of underlying problems that affect security.
- If examining scanner output, consider exploring the data using spreadsheets and pivot tables.
- Fill in the gaps in your understanding with follow-up scans, documentation requests, and interviews.
- Involve colleagues in your analysis to obtain other people's perspectives on the data and conclusions.

# EDGENETIC





**5 Reasons You Need a Backup** and Disaster Recovery Partner









<ltem 8.1> Increase Data Security Awareness and Company with investigat ions, there are:

•6Hrs x Training course and activities

•Invite 1 or 2 legal security practitioner and auditor for the presentat ion of how to handle the case relating security operation under inv estigation.









#### <8> DATA SECURITY OPERATION

- <Item 8.2.1 > Intrusion Detection Systems (IDS) and Intrusion Prevention System (IPS)
  - These two platforms are primarily focused on identifying possible incidents, logging information and reporting, and analyses network traffic content to network traffic for patterns and recognize malicious attack patterns.
  - The cost included 2x installation of hardware and software with licenses, 2 x suggested basic hardware and 20 user accounts only.



# EDGENETIC



<Item 8.2> Review Logging and monitoring activities, the cost is changed subjected to the scope of work, we shall provide







#### <ltem 8.2> Review Logging and monitoring activities, the cost is changed subjected to the scope of work, we shall provide

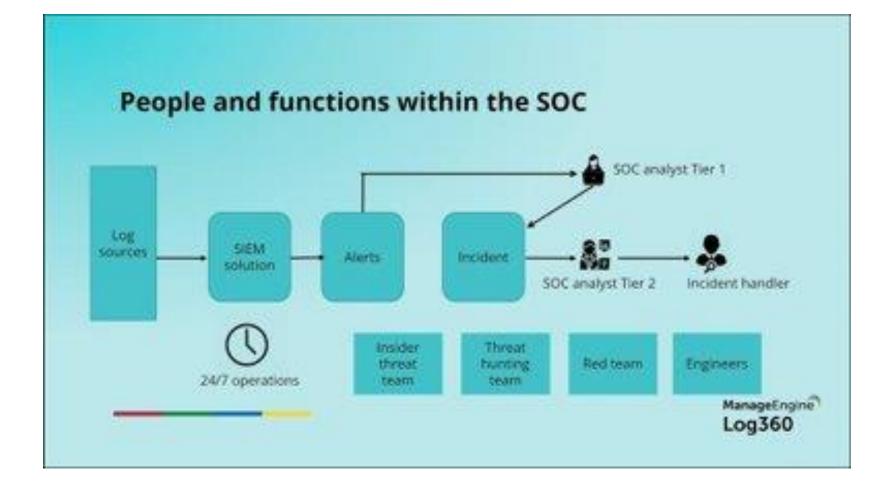
<Item 8.2.2 > Security Information and Event Management, regular event notification and monitoring, log management and threat intelligence, we will

Dedicated our security specialist to design, plan and review the process for achieving your business goals into SIEM, Provide 50x User accounts for the platform ManageEngine

To streamline our service of security operation center, SOC in China, we can help to monitor network traffic and to push notification to dedicated person if any occurs for a year.

<ltem 8.2.2 > User and Entity Behavior Analytics (UEBA)









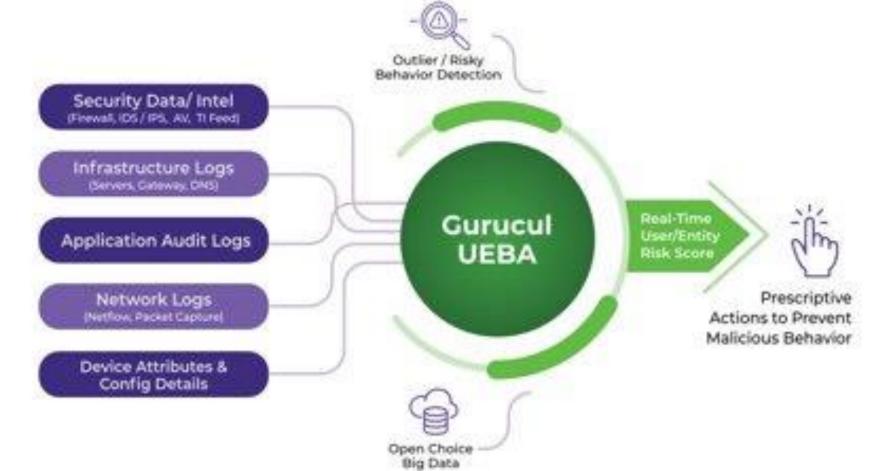
<ltem 8.2>

Review Logging and monitoring activities, the cost is changed subjected to the scope of work, we shall provide

• < Item 8.2.3 > User and Entity Behavior Analytics (UEBA)

- Dedicated security coordinator conducted the questionnaire across all level users ir department
- Our security specialist should analysis and summarize the result of questionnaire and correlating with the possible events incidents by people, since then will provide the conclusion of how to prevent data disaster by malicious behavior in future.









tem 8.3.1> To operate the detective and preventative measurement

<ltem 8.3.2 > The implementation of Intrusion detection system and Intrusion Prevention System

<ltem 8.4> To evaluate the third-party security service whether be appropriated to business

Referred by <Item 8.3.1> <Item 8.3.2 > and <Item 8.4> , if the implementation should be worked and processed outside of Hong Kong, we may consider:

- To refer by the cross-border data transfers from the transfer mechanisms requirements set out in Article 38
- Training : Mandarin Speaking
- Our Support and delivery
- Hardware and software, network design and the cross boarder of internet connection etc.
- Others

Remarks : The price is varied and considered by the scope of work and the location in China









<Item 8.4.> The implementation of Backup and disaster recovery (BDR)

•Our security and networking team will support your specific team to work together regarding the implementation of backup and disaster recovery as scheduled.

•Our security and networking team will review and check the result after completion. •If any occurs, we may seek the professional data specialist for further assistance.







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<Item 8.4.1> Increased the awareness of Personal Data Safety and protection and Item 8.4.2> Emergency Back-up and recovery management

- Our security team prepare and share relevant material to everyone
- To invite the speaker to present about the importance of personal data safety and protection
- Organizing some activities to increase their personal data awareness
- In terms of emergency Back-up and recovery management, we may
  - Design the plan with specific team and decision-maker under the budgets concerns.
  - Process and review the procedure where can facilitate a rapid and successful restoration of operation if any occurs
  - Conduct the testing and revision procedure
  - Conclude our insights and remediation into the guidelines of emergency back-up and recovery









#### <8> DATA SECURITY OPERATION

#### < Item 8.4.3> Data Security Emergency and Recovery Training and Awareness

- Our security team prepare and share relevant material to everyone
- To invite the speaker to present about the importance of personal data safety and protection
- Organizing some activities to increase their personal data awareness
- Setup the high-alert notification in help-desk



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<Item 9.1> Providing legal Security consulting service in Hong Kong and China

- To provide one year subscription plan of legal security consulting service (basic / standard and premium)
- To provide the legal advice with the communication by telephone, email or face to face.
- To explore any possible data breach the contract, industry practice or regulations.
- To review any data whether satisfy the requirement of regulation and compliance.
- Not included :
  - To give the legal advice once you are being a high target for cyber attacks if necessary
  - To provide cyber security law training for your employee

## EDGENETIC





#### **CYBERSECURITY IN CHINA**

#### DATA SECURITY LAW CHINA Implications and Solutions for Foreign Companies



#### <9> others

< Item 9.2 > Providing Data Protection Insurance (Standard or Tailored solutions)

#### Standard version

#### • First Party

- Incident Response from an actual or suspected cyber event – often nil deductible
- Business Interruption loss of net profit and continuing operating expenses
- Data and System Recovery increased cost of work, data recovery costs, additional business interruption mitigation
- Cyber Extortion extortion payments and negotiation
- Third Party
  - Privacy and Network Security Liability-liability following data breach or failure of network security:
  - PCI DSS contractual fines and penalties
  - Consumer redress fund
  - Regulatory fines and penalties (where legally insurable) GDPR
- Media Liability liability following defamation or infringement online











#### PEN TEST KEY CAPABILITIES

#### Comprehensive **Security Testing**

Conduct thorough simulated hacker attacks to identify flaws and vulnerabilities in the information system

#### Legal and Compliant **Operations**

Meet the requirements of cybersecurity regulations and laws, such as information security level protection and the cybersecurity law, through penetration testing services.



# EDGENETIC



#### **Enhanced Security** Capabilities

Utilize the penetration testing report for training and educating personnel, providing detailed procedures and repair recommendations.

#### Reduce the risk of data breaches

Penetration tests can help organizations to reduce the risk of data breaches by identifying and remediating vulnerabilities that could be exploited by attackers.





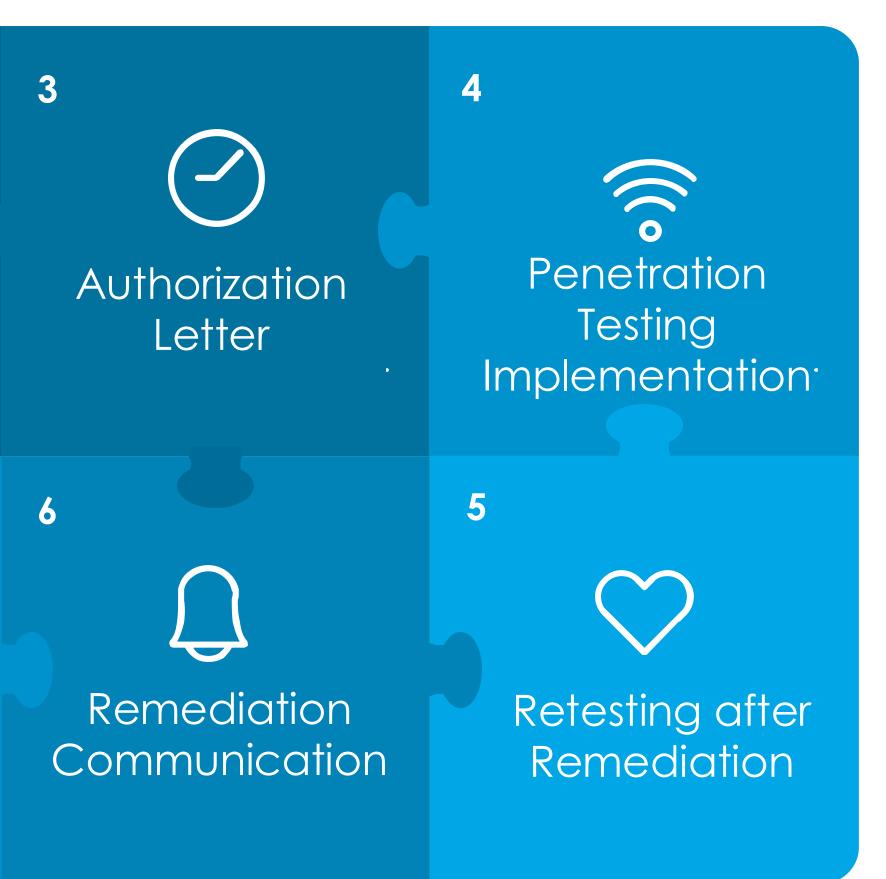


#### **PEN TEST FLOWCHAT**



## EDGENETIC







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