

CompuSource Systems, Inc.

Core Compliance

Core Compliance Package Overview



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Overview

CompuSource Systems, Inc. has partnered with it's long term technology partner DataSure24 to provide Cyber Security Services using the award winning Alien-Vault cyber security software. CSS's Core Compliance package offers a simple and effective cyber security solution, for small-medium size organizations to meet areas of compliance, and detect and respond to threats and when they emerge. Once the technical requirements are met at each of the customer locations, we will begin the installation of our specialized software ready for operational use within 1-2 weeks. The following services are included in this package:

Asset Discovery - Active and passive scans will discover all assets on the network as well as their operating system, running services, and more. An actively updated asset inventory will be maintained that will give a detailed view of related security events, vulnerabilities, and availability.

Vulnerability Assessment - A vulnerability assessment will be completed to detect vulnerabilities on a system and its software. The scan will be reviewed by analysts and a detailed report will be completed to prioritize any remediation action-necessary and improve security posture. After the initial assessment is completed monthly scan will be completed and a report will be provided.

Intrusion Detection - Through our 24x7 Security Operation Center (SOC) DataSure24 will provide around the clock monitoring with the ability to detect and analyze malicious activity on your network.

Availability Monitoring - Core assets and their services will be monitored for their availability to ensure uptime.

Incident Response - Any alarm with a risk level 5 or higher will have a 1-2 hour response time. Analysts will alert the CompuSource Technical team with details of the event and recommend course of action. An alarm with a risk level of 3-4 will prompt a notification within 48 - 72 hours. A monthly alarm report will be provided showing a breakdown of all alarms.

Asset Discovery

	NAME - OWNE	R(S) ASSETS	ALARMS	VULNERABILITIES	EVENTS		
	Workstations	16	-		٢	ø	Q
3	Web Servers	4		÷	0	1	Q
3	Production Servers	10		+	0	1	Q
	Firewalls	2	4		0	1	Q
3	Domain Controllers	2			٢	1	Q
1	Database Servers	3			0	1	Ø

This essential service allows discovery of all assets in your environment. Also, can discovery changes to assets in your environment. The above screenshot shows **asset groups**, with the below image detailing the scanning process taking place. The service scans a customer's network to find all assets attached to a customer's network. This may include workstations, web servers, firewalls, devices, tablets and more.

Asset discovery uses passive tools, such as passive operating system fingerprinting and passive service discovery. Active scanning is also utilized, to perform scheduled asset scans to discover any rogue assets existing on the network.



Asset Discovery

Below is an example asset list, broken down from the groups detailed in the previous image. This asset discovery gives us a full picture of the assets on your network so that we know what we are monitoring and exactly what should be on your network. The asset information displayed shows which operating system the asset runs on and whether we have a vulnerability scan scheduled for it.

88,	HOSTNAME .	IP © DEVICE TYPE	OPERATING SYSTEM	ASSET \$	VULN SCAN SCHEDULED	HIDS \$	
	Signet	182.168.100.93	Unix	z	Na	Not Deployed	Ø
	Próenix	792,168.100.91	105	2	No	Not Deployed	20
12	Parados	192,168,100.09	Ame05	2	Ng	No: Deployed	Ø
10	Orlon	192.158.100.94	AcheOS	2	No	Not Deployed	Ø
10	Netrogen	192.188.100.45	Windows XP SP1+ 2000 SP3	2	Na	Not Deployed	Ø
	Nesolum	192.168.100.49	Windows XP SP1+, 2000 SP3	2	NO	NOL Deproyed	Ø
8	NON	192.168.100.47	OpenBSD	3	No	Not Deployed	Ø
0	Neptunium	192.155.100.45	Linus	2	Na	Not Deployed	Ø
12	Neon	192,188,100,49	Open850	2	No	Not Deployed	Ø
в	Neodymiun	192.168.100.50	Windowski	2	Ne	Not Deployed	ø
0	Wolybdenum	192 168 100 St	Android	2	Na	Not Deployed	Ø
10	Mercury	192 168 100 52	OpenBSD	2	No	Not Deployed	Ø

Vulnerability assessments are completed by trained SOC staff with minimal intrusion, to identify, define, and prioritize system susceptibilities. These assessments are continuously updated to ensure absolute safety against the latest threats. Our SOC Analysts provide a detailed summary accompanied by a more detailed report to give a break down on any vulnerability threatening your systems.

Using credentials given to the scanning tool, a pathway into the system can allow the tool to view exact program versions and other vulnerabilities that may not be visible from the network. The scan is also able to operate inside of the host, reducing the load on your network.

The vulnerability assessment covers all major operating systems such as Windows or Linux in addition to vendor specific operating systems like VMware, and applications like Java.

The vulnerability scanner can check for over 55,000 different types of vulnerabilities, including some common types below:

Security Updates:

- Windows Updates and Microsoft Security Bulletins
- Missing Application Security Updates.

Attacks:

- SQL Injection and XSS Attacks
- Web Server and Application Attacks
- Database Attacks
- Remote Code Execution
- Privilege Escalation
- Denial of Service Attacks

System Configuration:

- Default Accounts
- Remote Shell Access
- SSL / TLS Configuration
- Certificates
- Service Detection
- Local System Security



Above is an example **vulnerability report** for one asset on a customer's network. This is what is generated by our threat detection systems before analysis takes place and a summary is generated by one of our Tier 2 SOC analysts. On the next page, you will find an example page from a report, breaking down one of the vulnerabilities as it arrives. The vulnerability summary identifies incoming threats by comparing them with a database of known vulnerabilities. This can also be used to check compliance of an organization and is an important part of many areas of compliance.

192416 22/tcp 53/tcp 110/tcp 587/tcp	1.255example: Reported Ports 25/tcp 80/tcp 143/tcp 995/tcp		
Plugin Name OS End Of Life Detection	PluginID	Service general (0top)	Severit Seitus
Vulnerability Detection Result: The "Red Hat Linux" Operating System on the remote host in CPE: ope-to-rednat inux-9 Installed version, build or SP: 9 EOL info: https://en.wikipedia.org/wiki/Red_Hat_Linux#Version CVSS Base Vector: AV:N/AC:L/Au:N/C:C/I:C/A:C	history Family name: General Category: Infos Copyright: This script Summary: NOSUMMA Version: SRevision: 78	is Copyright (C) 2013 Greenbo IRY 164 S	ne Natvorks Gmbi
Summary: OS End Of Life Detection The Operating System on the remote host has reached the e not be used anymore CVSS Base Score: 10.0	of life and should		Serious

This is an example of a **serious vulnerabilit**y being reported to the customer. Following summaries of all vulnerabilities will be sent to customers monthly following extensive review from our SOC analysts. SOC analysts can schedule vulnerability scans dependent on the package selected by the customer, commonly occurring monthly.

Executive Summary

This report summarizes the results of a vulnerability scan performed by Shatter I.T. LLC using AlienVault USM. It contains confidential information about the state of your network. Access to this information by unauthorized personnel may allow them to compromise your network.



A **vulnerability summary** is then developed from the report by a Tier 2 SOC analyst and sent off to the customer (see below). The vulnerability summaries are developed from analysis of the information received through our SOC alarm procedures and the vulnerability reporting. It is divided into critical, high, medium and low-level vulnerabilities for the customers viewing. Further explanation then occurs in the bottom image.

Relie	diated Villiner	abilities	-						_
7	example 192.168.1.25	5 D	elnerability SH Brute Force Infault Croden	togens With bills Reporting	940	The password to	the affected account was changed	on 12/12/1	8017
Ident	fied Vulnerak	allities			200				
Here	Assot	Valuenthility	Threat Level	Ditaib	mpast		Remediation	Neport Page 4	POAM
1	example 1921681.255	GSEndorute 100		This host is running Rid Hat Urus 9 which has reach End of Life (Egg) on 3/31/2003 The system should be upgraded to an to that receives security updates.	The system i security upd End of tifs a future vulne	tas not reterved ates since reaching nd will not for any rabilities.	The host should be migrated to a more modern, supported 06.	1	1
2	example 192.168.1.255	UW-imaps that and dmail BOF Yuharabilities (Drus)	10.0	The host has UW- installed and is prove to Buffer Overflow wilnerabilities	Successful e association of requires that configured a backend for agent above destination i	opiorization allows arbitrary <u>code, but</u> t the utilities are s a delivery a mail transfar ng overly long mailbon names.	Update to version 2007d,	2	
	oxample 192.168.1.255	GNU Bash Environment Variable Handli Studi RCE Vulnerability (12 02	10.0 ne sc) -	This hast is installed with SNU Back Shell and is prone to remote command execution vulnerability.	Sumetshill an allow remote to inject she allowing locs escalation or execution de application v	epiontation will a or local attackers if commands, al privilege reamote command spending on the wetth.	Apply the sarch from the below link, https://ttp.gru.org/gru/bash/	3	

Availability Monitoring

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After the asset discovery scan has been completed, DataSure24 can monitor an assets availability, to ensure that the customer's systems are up and running in the way that they should be, and that down-time is avoided. This also provides visibility into the traffic patterns of the customers, allowing quick detection of abnormal activity levels. We will notify of any down assets on your network that you are not planning for.

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The left shows an overview of all asset groups availability, while the bottom image shows an individual assets availability and information about it, including; source IP, destination IP, type of service & number of bytes.

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Intrusion Detection

Included in our core compliance package is an intrusion detection service, that can ensure dedicated and thorough monitoring and protection of our customers systems and information.

This services is included in the core compliance package, and consists of network-based intrusion detection. (NIDS) aspects.

A network-work based intrusion detection system is used for passive sniffing of interfaces, and will monitor for potentially malicious activity trying to access your information.

DataSure24's Intrusion Detection System (IDS) can view all traffic on a network by mirroring all traffic flowing through a switch or firewall and analyzing it for malicious events. These events are correlated together to identify threats by detecting behavior patterns across different types of assets.

The IDS also utilizes threat intelligence through the Open Threat Exchange to add context to potential security events and protect against emerging or zero-day threats.

Intrusion Detection

Below is an example of alarms incoming to DataSure24 for analysis. The network intrusion detection system (NIDS) passively analyzes payload data and monitors for potentially malicious data. The alarms are viewed in real-time by either our Tier 1 or Tier 2 SOC analysts and are elevated to appropriate staff members to alert the customer of potential incidents to their system.

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The alarms report on the type of vulnerability, source, destination, time of the event, method and the level of alarm that arrived. Alarms are ranked low (1), medium (2) or high (3). The above alarms are analyzed by our SOC analysts by utilizing our SOC alarm metrics, and tickets are created in both our internal alert ticketing system and the 24Seven ticketing system by SOC Tier 2 analysts. If a Tier 1 analyst finds an alarm worthy of analysis, it must be elevated to a Tier 2 analyst before a ticket is created in 24Seven and brought to the attention of the customer.

Incident Response

Following the intrusion detection stage and discovery of vulnerabilities, Tier 1 and Tier 2 analysts are in our SOC on a 24/7, 365 days a year basis to respond and inform on any incoming threats. Incident response is all about time. We dedicate our work to making sure we respond and inform in rapid time, to ensure any potential vulnerabilities do not make large impacts on your organization.

Any alarm with a high-level risk will have a 1-2 hour response time. Analysts will alert the customers technical team with details of the event and recommended course of action. An alarm with a medium risk level will prompt a notification within 48-72 hours.

Low levels alarms are analyzed in line with our metrics for assessing incoming alarms, with some being elevated to medium-level alarms.

Our incident response procedures and metrics developed by in-house experts allow for a speedy notification on any harmful events affecting your system, allowing remediation to being to optimize the time it takes to get your businesses systems back up and running.

Additional Information

In addition to our Core Compliance package, we also utilize Open Threat Exchange (OTX) services. This is a system that is designed for sharing threat intelligence information. OTX is a global community of cyber security professionals who contribute Indicators of Compromise of the latest threats to the exchange, where users can subscribe to and download rules for each new threat.

Indicators of Compromise (21)	Related Pulses (0) Comments (0) History (0)				
VIELOS DOMENCIO PORTU					
2004 [<u>]6</u> .			200	COS:	
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DataSure24 leverages the Open Threat Exchange by subscribing each customer monitoring server access to the OTX platform, where new rules are constantly added through an application programming interface (API). This additional data feed allows for the latest threats to be detected even quicker by allowing analysts to subscribe to new threats before updates to the monitoring server need to be applied.

