Stage: 2 Report

NESSUS Vulnerability Report

Overview

practices.

Performing a vulnerability assessment for a college website is crucial to identify and address potential security weaknesses that could be exploited by attackers. Security is an ongoing process, and continuous monitoring and improvement are essential to maintain a robust defense against potential threats. Additionally, if you lack the expertise to conduct a thorough assessment, it is wise to seek assistance from qualified cybersecurity professionals. Verify that the website is secure and displays correctly on various devices and browsers. Document all identified vulnerabilities, along with their severity and potential impact. Prioritize fixes based on criticality and help the college's IT team or web developers with the remediation process. Document all identified vulnerabilities, along with their severity and potential impact. Prioritize fixes based on criticality and help the college's IT team or web developers with the remediation process.

Nessus is a popular vulnerability assessment tool that is widely used by cybersecurity professionals and organizations to identify and address security weaknesses in their networks, systems, and applications. Here are some of the key uses of Nessus:

Vulnerability Scanning: Nessus is primarily used for automated vulnerability scanning. It scans networks, servers, endpoints, and applications to detect known vulnerabilities and misconfigurations. This helps organizations identify potential entry points for attackers and prioritize their security efforts. **Patch Management:** The scan results generated by Nessus provide information about missing patches and updates for various software and operating systems. This assists in maintaining an up-to-date and secure IT environment by ensuring that critical security patches are applied promptly. **Compliance Auditing:** Nessus can be used to assess whether an organization's systems and configurations comply with industry standards and regulatory requirements, such as PCI DSS, HIPAA, NIST, CIS, and more. It helps organizations identify gaps and achieve compliance with security best

Web Application Scanning: Nessus can scan web applications to identify vulnerabilities like SQL injection, cross-site scripting (XSS), and other issues that may expose web applications to potential attacks.

Network Inventory and Asset Management: Nessus can provide valuable information about the devices and systems connected to the network, assisting in maintaining an up-to-date inventory and understanding the network's attack surface.

Security Awareness and Training: By generating detailed vulnerability reports, Nessus helps security teams and IT personnel gain insights into the security posture of their systems. This information can be used to improve security awareness and training programs.

Risk Assessment: Nessus assigns severity levels to identified vulnerabilities, helping organizations prioritize their efforts by focusing on high-risk vulnerabilities first.

Penetration Testing Support: Nessus can complement manual penetration testing efforts by providing an initial overview of potential vulnerabilities before more extensive manual testing is conducted.

Cloud Infrastructure Security: Many organizations are now using cloud infrastructure. Nessus can assess cloud environments and identify misconfigurations or vulnerabilities that might affect the security of cloud-based resources.

Continuous Monitoring: Nessus can be used to implement continuous monitoring strategies, enabling organizations to regularly assess their security posture and detect changes that may introduce new vulnerabilities.

Threat Intelligence Integration: Nessus can be integrated with threat intelligence feeds to cross-reference scan results with known exploits and threats, providing a more comprehensive view of potential risks. Nessus is an excellent tool for identifying known vulnerabilities and misconfigurations, it should be part of a comprehensive security strategy that includes regular manual assessments, threat hunting, and ongoing security awareness efforts to address emerging and zero-day threats.

Target Website: Vignan's Foundation for

Science Technology & Research website:

www.vignan.ac.in Target IP:

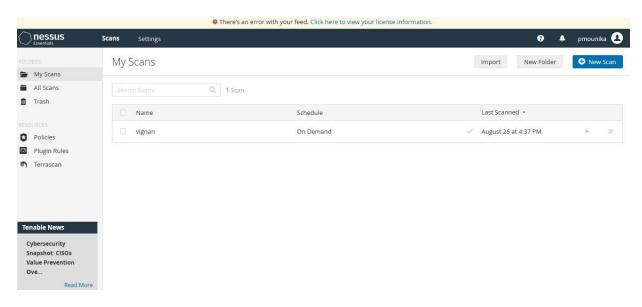
180.179.213.196

Here are some of the Initial screenshot of Nessus doing the vulnerability scanning of IP address 180.179.213.196

Figure 1: DNS Records for the Website



Figure 2: Home page of the Nessus vulnerability scanning.



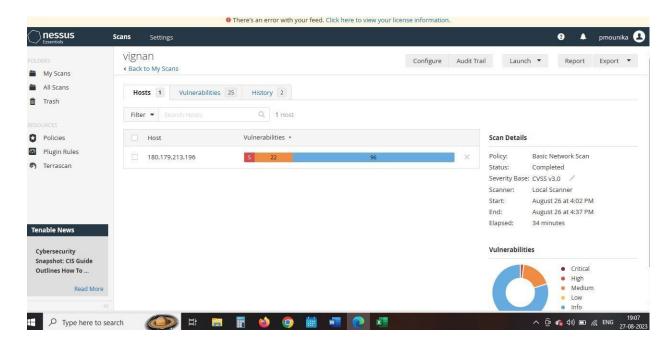


Figure 3: It show Nessus vulnerability scanning details like policy, status, etc.

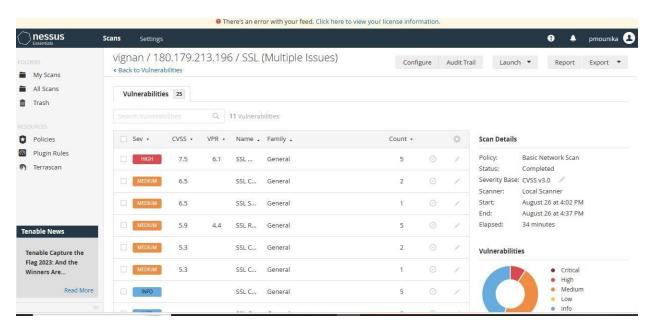


Figure 4: It show number of vulnerability and types.



1	SSL Medium Strength Cipher Suites Supporte d (SWEET3 2)	Hi gh	4 2 8 7 3	The remote host supports the use of SSL ciphers that offer medium strength encryption. Nessus regards medium strength as any encryption that uses key lengths at least 64 bits and less than 112 bits, or else that uses the 3DES encryption suite	Reconfigure the affected application if possible to avoid use of medium strength ciphers.	The presence of SSL medium strength cipher suites such as SWEET32 in a business's security infrastructure can have significant repercussions. Positively, addressing these vulnerabilities enhances data protection and compliance with security standards, bolstering customer trust. However, the negative impact lies in the potential security breaches and data compromises that these weak cipher suites can invite, potentially leading to data breaches, regulatory noncompliance, financial losses, and reputational damage. Thus, mitigating SSL medium strength cipher suites is imperative for sustaining a secure operational environment and safeguarding the business's interests.	143, 993,84 43,990, 995
2	SSL Certificat e Cannot Be Trusted	M ed iu m	5 1 1 9 2	The server's X.509 certificate cannot be trusted. This situation can occur in three different ways, in which the chain of trust can be broken, as stated below: - First, the top of the certificate chain sent by the server might not be descended from a known public certificate authority. This can occur either when the top of the chain is an unrecognized, self-signed certificate, or when	Purchase or generate a proper SSL certificate for this service.	The occurrence of an "SSL certificate cannot be trusted" message when users attempt to access a business's website can have critical implications. On the positive side, addressing this issue promptly can bolster cybersecurity, ensuring encrypted and authenticated connections, thereby enhancing customer trust and data confidentiality. However, the negative impact involves potential loss of credibility as users may refrain from sharing sensitive information due to security concerns, resulting in reduced website traffic, lower conversion rates, and damage to the brand's reputation. Therefore, rectifying the SSL certificate trust problem is crucial for maintaining a secure online presence and fostering user confidence in the business's digital offerings.	990, 8443

intermediate
certificates are
missing that
would connect
the top of the
certificate chain
to a known
public
certificate
authority.

- Second, the certificate chain may contain a certificate that is not valid at the time of the scan. This can occur either when the scan occurs before one of the certificate's 'notBefore' dates, or after of the one certificate's 'notAfter' dates.
- Third, thecertificate chain may contain a signature that either didn't match thecertificate's information or could not beverified. Bad signatures can be fixed by getting the certificate with bad the signature to be re-signed by its issuer. Signatures that could not beverified are the result of the

certificate's

				issuer using a signing algorithm that Nessus either does not support or does not recognize. If the remote host is a public host in production, any break in the chain makes it more difficult for users to verify the authenticity and identity of the web server. This could make it easier to carry out man-in-themiddle attacks against the				
3	SSL Self- Signed Certificat e	M ed iu m	5 7 5 8 2	remote host. The X.509 certificate chain for this service is not signed by a recognized certificate authority. If the remote host is a public host in production, this nullifies the use of SSL as anyone could establish a man- in-the-middle attack against the remote host. Note that this plugin does not check for certificate chains that end in a certificate that is not self-	Purchase generate proper certificate this service.	or a SSL for	SSL Self-Signed Certificate	990

				signed, but is signed by an unrecognized certificate authority.			
4	SSL RC4 Cipher Suites Supporte d (Bar Mitzvah)	M ed iu m	6 5 8 2 1	The remote host supports the use of RC4 in one or more cipher suites. The RC4 cipher is flawed in its generation of a pseudo-random stream of bytes so that a wide variety of small biases are introduced into the stream, decreasing its randomness. If plaintext is repeatedly encrypted (e.g., HTTP cookies), and an attacker is able to obtain many (i.e., tens of millions) ciphertexts, the attacker may be able to derive the plaintext.	Reconfigure the affected application, if possible, to avoid use of RC4 ciphers. Consider using TLS 1.2 with AES-GCM suites subject to browser and web server support.	The presence of SSL RC4 cipher suites, particularly those vulnerable to attacks like Bar Mitzvah, can have significant consequences for businesses. On one hand, promptly addressing these vulnerabilities can enhance the security posture, ensuring safe and encrypted communication, and preserving customer trust. On the other hand, failing to mitigate these vulnerabilities can expose sensitive data to potential breaches, leading to compromised customer information, regulatory noncompliance, financial losses, and reputational harm. Therefore, taking decisive action to eliminate SSL RC4 cipher suite vulnerabilities is essential for maintaining robust cybersecurity, safeguarding customer interests, and preserving the business's reputation.	143, 993, 8443, 990, 995

5	SSL Certificat e Expiry	M ed iu m	1 5 9 0	This plugin checks expiry dates of certificates associated with SSL- enabled services on the target and reports whether any have already expired.	Purchase or generate a new SSL certificate to replace the existing one.	The expiry of an SSL certificate can have substantial implications for businesses. On a positive note, renewing certificates in a timely manner ensures the continuation of secure encrypted connections, maintaining customer trust and data protection. Conversely, the negative impact includes potential disruptions to website functionality, customer transactions, and communication due to browsers displaying security warnings. This can result in decreased website traffic, abandoned transactions, damaged reputation, and potential financial losses. Thus, actively managing SSL certificate expiration is vital for sustaining smooth online operations, preserving user confidence, and upholding the business's digital integrity.	990, 8443
6	SSL Certificat e with Wrong Hostnam e	M ed iu m	4 5 4 1	The 'commonName' (CN) attribute of the SSL certificate presented for this service is for a different machine.	Purchase or generate a proper SSL certificate for this service.	The presence of an SSL certificate with a wrong hostname can have significant ramifications for businesses. Correcting this issue promptly is essential for maintaining security and ensuring encrypted, authenticated connections, thereby fostering customer trust and data confidentiality. However, the negative impact includes potential security vulnerabilities, as users may become targets of phishing attacks or fraudulent websites due to the mismatched hostname. This can lead to compromised customer data, financial losses, tarnished reputation, and potential legal liabilities. Hence, addressing	990

				The remote service accepts connections encrypted using TLS 1.0. TLS 1.0 has a number of cryptographic design flaws. Modern implementations of TLS 1.0 mitigate these problems, but newer versions of TLS like 1.2 and 1.3 are designed against these flaws and should be used whenever possible. As of March 31, 2020, Endpoints that aren't enabled for TLS 1.2 and higher will no longer function properly with major web browsers and major vendors. PCI DSS v3.2 requires that TLS 1.0 be disabled entirely		SSL certificates with incorrect hostnames is crucial for upholding cybersecurity, safeguarding user interests, and preserving the business's reputation and bottom line. Detecting the use of TLS version 1.0 protocol in a business's network can have several implications. Positively, identifying and addressing this outdated and insecure protocol can enhance the organization's overall security posture, protecting sensitive data and ensuring compliance with modern security standards. However, the negative impact involves potential vulnerabilities, as TLS 1.0 is susceptible to various attacks. Continued usage can lead to data breaches, unauthorized access, compromised customer information, regulatory noncompliance, reputational damage, and even legal	143, 993, 8443, 990, 995
				PCI DSS v3.2		data breaches, unauthorized access, compromised customer	
				TLS 1.0 be		compliance, reputational	
				by June 30,		consequences. Thus, swiftly	
	TLS		1	2018, except for	r 11	discontinuing the use of TLS 1.0	
	Version	М	E	POS POI terminals (and	Enable support for TLS 1.2 and	is crucial for maintaining robust cybersecurity,	
	1.0	ed	+	the SSL/TLS	1.3, and disable	robust cybersecurity, preserving customer trust, and	
	Protocol	iu	0	termination	support for TLS	safeguarding the business's	
7	Detection	m	5	points to which	1.0.	interests.	

				they connect) that can be verified as not being susceptible to any known exploits.			
8	TLS Version 1.1 Protocol Deprecat ed	M ed iu m	2 E + 0 5	The remote service accepts connections encrypted using TLS 1.1. TLS 1.1 lacks support for current and recommended cipher suites. Ciphers that support encryption before MAC computation, and authenticated encryption modes such as GCM cannot be used with TLS	Enable support for TLS 1.2 and/or 1.3, and disable support for TLS 1.1.	The deprecation of the TLS 1.1 protocol can yield enhanced security and regulatory compliance for businesses by moving to more secure protocols; however, it might also lead to compatibility issues, operational disruptions, and development efforts as outdated systems and devices struggle to adapt to the change, potentially impacting user experience and necessitating careful migration planning.	143, 993, 8443, 990, 995

1			1	1.1	1	1	
				As of March 31, 2020, Endpoints that are not enabled for TLS 1.2 and higher will no longer function properly with major web browsers and major vendors.			
9	TLS Version 1.1 Protocol Detection	In fo	1 E + 0 5	The remote service accepts connections encrypted using TLS 1.1. TLS 1.1 lacks support for current and recommended cipher suites. Ciphers that support encryption before MAC computation, and authenticated encryption modes such as GCM cannot be used with TLS 1.1 As of March 31, 2020, Endpoints that are not enabled for TLS 1.2 and higher will no longer function properly with major web browsers and major vendors.	Enable support for TLS 1.2 and/or 1.3, and disable support for TLS 1.1.	Detecting the continued use of the deprecated TLS 1.1 protocol within a business's network can trigger both positive and negative effects. On the positive side, such detection can facilitate proactive security measures by highlighting vulnerabilities that need immediate attention, enabling the organization to fortify its cybersecurity posture. Additionally, it aligns with regulatory requirements and industry standards, reducing the risk of compliance violations and associated penalties. However, this detection might also uncover compatibility challenges, as systems and applications reliant on TLS 1.1 could face disruptions. Mitigating these impacts necessitates careful planning for migration to more secure protocol versions, potentially incurring development costs and temporarily affecting user experience during the transition.	143, 993, 8443, 990, 995

From 1 in-the-middle protection, and improve the Attacks, and Configure the Server ed + weakens cookie- remote web potentially translating into	N F H S	HTTPS M Server ed	E attacks, and Configure + weakens cookie- remote v	he overall browsing experience, eb potentially translating into	8443
Wednesday remote was potentially translating title		RFC iu	0 hijacking server to	se higher customer retention rates	

1 1	HSTS Missing From HTTPS Server	In fo	8 4 5 0 2	The remote HTTPS server is not enforcing HTTP Strict Transport Security (HSTS). HSTS is an optional response header that can be configured on the server to instruct the browser to only communicate via HTTPS. The lack of HSTS allows downgrade attacks, SSL-stripping manin-the-middle attacks, and weakens cookiehijacking protections.	Configure remote server to HSTS.	the web use	The absence of HTTP Strict Transport Security (HSTS) from an organization's HTTPS server could have several business impacts. It might result in heightened security risks, leaving the website and its users vulnerable to attacks like man-in-the-middle and protocol downgrade attacks. Such vulnerabilities could compromise sensitive user data, damage the company's reputation, and erode customer trust, potentially leading to financial losses and legal liabilities. Additionally, search engines might prioritize websites with HSTS enabled, affecting the website's visibility and potentially reducing organic web traffic. By implementing HSTS, the business can enhance its security posture, protect user data, maintain regulatory compliance, and bolster customer confidence, potentially leading to improved customer loyalty and online performance.	8443
-----	--	----------	-----------	---	---	-------------------	--	------

				The remote host has open			
				SSL/TLS ports			
				which advertise			
				discouraged			
				cipher suites. It			
				is recommended			
				to only enable			
				support for the			
				following cipher			
				suites:			
				TI C. 1 2.		The addition of managinate	
				TLSv1.3:		The selection of appropriate	
				-0x13,0x01		SSL/TLS cipher suites can	
				TLS13_AES_12		significantly impact a business's	
				8_GCM_SHA25		security, performance, and user	
				6		experience. Implementing	
				-0x13,0x02		recommended cipher suites can	
				TLS13_AES_25 6_GCM_SHA38		enhance data protection and	
				0_GCM_SHA38 4		privacy, reducing the risk of data breaches and cyberattacks.	
				- 0x13,0x03		Strong cipher suites contribute	
				TLS13_CHACH		to compliance with industry	
				A20_POLY1305		regulations and standards,	993,
				_SHA256		avoiding potential legal	8443,
				_5111230		consequences and financial	143,
				TLSv1.2:		penalties. Moreover, the right	995,
				- 0xCO,0x2B		cipher suites can optimize	990
				ECDHE-		website and application	990
				ECDSA-		performance by ensuring	
				AES128-GCM-		efficient encryption and	
				SHA256		decryption processes. On the	
				- $0xC0,0x2F$		flip side, inadequate or	
				ECDHE-RSA-		outdated cipher suites can	
				AES128-GCM-		expose the business to	
				SHA256		vulnerabilities, potentially	
				- $0xC0,0x2C$		leading to data breaches,	
				ECDHE-		reputational damage, and	
				ECDSA-		financial losses. It might also	
				AES256-GCM-		result in compatibility issues	
				SHA384		with modern browsers and	
				- 0xC0,0x30		devices, hampering user	
				ECDHE-RSA-		experience and potentially	
				AES256-GCM-		causing customers to abandon	
				SHA384		the platform. Prioritizing	
	CCI /TIC		2	- $0xCC$, $0xA9$		recommended cipher suites	
	SSL/TLS		2	ECDHE-		aligns the business with security	
	Recomm		Ε	ECDSA-	Only enable	best practices, fosters trust	
	ended	1	+	CHACHA20-	support for	among users, and safeguards	
1	Cipher	In	0	POLY1305	recommened	the overall integrity of its	
2	Suites	fo	5	- 0xCC,0xA8	cipher suites.	digital operations.	

1	EGDATE DG4	
	ECDHE-RSA-	
	CHACHA20-	
	POLY1305	
	- $0x00,0x9E$	
	DHE-RSA-	
	AES128-GCM-	
	SHA256	
	- $0x00,0x9F$	
	DHE-RSA-	
	AES256-GCM-	
	SHA384	
	This is the	
	recommended	
	configuration	
	for the vast	
	majority of	
	services, as it is	
	highly secure	
	and compatible	
	with nearly	
	every client	
	released in the	
	last five (or	
	more) years.	

	SSL Root Certificati on Authority Certificat		9 4	The remote service uses an SSL certificate chain that contains a self-signed root	Ensure that use of this root Certification Authority certificate complies with your	The accuracy and proper management of SSL Root Certification Authority (CA) certificate information can have substantial business implications. Maintaining upto-date and valid SSL root certificates is crucial for establishing trust with customers, partners, and users who rely on secure online communication. Failure to manage these certificates effectively can lead to security warnings, loss of user confidence, and potential disruptions in online transactions, which may result in decreased sales or engagement. Additionally, noncompliance with industry standards and browser requirements might lead to website inaccessibility or reduced search engine visibility, impacting online presence and revenue. Conversely, managing SSL root certificates properly ensures secure connections, mitigates security risks, and helps maintain regulatory compliance. By proactively staying informed about certificate expiration, renewals, and updates, businesses can	143, 993, 995, 8443
	_		9	contains a self-	complies with	certificate expiration, renewals,	
	Certificat		4	Certification	your organization's	prevent security breaches,	
	e		7	Authority	acceptable use	uphold customer trust, and	
1	Informati	In	6	certificate at the	and security	ensure the continuity of their	
3	on	fo	1	top of the chain.	policies.	digital services.	

				The remote service uses a known CA certificate in the SSL certificate				
				chain that has been signed				
				using a				
				cryptographicall				
				y weak hashing algorithm (e.g.,				
				MD2, $MD4$,				
				MD5, or SHA1).				
				These signature algorithms are			Using SSL certificates signed	
				known to be			with weak hashing algorithms	
				vulnerable to			from known Certificate	
				collision attacks			Authorities (CAs) can have	
				(CVE-2004-			serious business repercussions.	
				2761, for example). An			Such certificates are vulnerable to cryptographic attacks,	
				attacker can			potentially allowing malicious	
				exploit this to			actors to intercept and	
				generate			manipulate sensitive data	
				another			transmitted between users and	0442
				certificate with the same digital			the business's servers. This can lead to data breaches,	8443
				signature,			compromised user information,	
				allowing the			and severe reputational	
				attacker to			damage, eroding customer trust	
				masquerade as			and loyalty. Furthermore,	
				the affected			browsers and security software	
				service.			might flag websites with weakly signed certificates as insecure,	
				Note that this			deterring users from accessing	
				plugin reports			the platform and leading to	
				all SSL			reduced website traffic and	
				certificate chains signed			conversion rates. Non- compliance with industry	
				chains signed with SHA-1 that			standards and security best	
SSL				expire after			practices can also result in	
Certij	ficat			January 1, 2017			legal liabilities and penalties.	
e Sigi				as vulnerable.			To mitigate these risks,	
Using				This is in accordance with			businesses should prioritize obtaining SSL certificates	
Weal				Google's	Contact	the	obtaining SSL certificates signed with strong, secure	
Hash	_		9	gradual	Certificate		hashing algorithms, ensuring	
Algor	rith		5	sunsetting of the	Authority	to	robust data protection,	
m (Krasi		lr.	6	SHA-1	have	the	maintaining user confidence,	
1 (Knov		In fo	3 1	cryptographic	certificate reissued.		and upholding the integrity of their online operations.	
4 CA)		٥ر	1	hash algorithm.	reissuea.		men omme operations.	

Note that this plugin will only fire on root certificates that are known certificate authorities listed in Tenable Community Knowledge Article000001752. That is what differentiates this plugin from plugin 35291, which will fire onany certificate, not just known certificate authority root certificates. Known certificate authority root certificates are inherently trusted and so potential any issues with the signature, including it being signed using a weak hashing algorithm, are not considered security issues.

1 6	POP Server Detection	In fo	1 0 1 8 5	The remote host is running a server that understands the Post Office Protocol (POP), used by email clients to retrieve messages from a server, possibly across a network link.	Disable this service if you do not use it.	Detecting the presence of a POP (Post Office Protocol) server within a business's network can have significant business implications. On the positive side, identifying a POP server can enable efficient email communication, benefiting internal communication, customer interactions, and business operations. It can also streamline email management, making it easier to organize and retrieve messages. However, the use of POP servers might pose security risks, as they often lack robust encryption and can expose sensitive information during transmission. Additionally, the lack of synchronization across devices can lead to data inconsistencies. Therefore, businesses should carefully consider the security implications and explore alternative email protocols like IMAP (Internet Message Access Protocol) that offer improved security and synchronization features to mitigate potential risks associated with POP server usage.	110, 995
-----	----------------------------	----------	-----------------------	--	--	--	-------------

	Additiona I DNS		4 6 1	Hostnames different from the current hostname have been collected by miscellaneous plugins. Nessus has generated a list of hostnames that point to the remote host. Note that these are only the alternate hostnames for vhosts discovered on a web server. Different web servers may be hosted on name-	If you want to test them, re- scan using the special vhost syntax, such as:	Incorporating additional DNS hostnames into a business's infrastructure can have diverse business impacts. On the positive side, it can enhance online presence and accessibility, allowing customers to reach the business through different domain variations. This can lead to improved brand recognition and customer engagement. Additionally, utilizing multiple DNS hostnames can distribute web traffic more efficiently, enhancing website performance and user experience. However, there are considerations: improper management of DNS entries can lead to misdirection of traffic or downtime, impacting customer access and potentially resulting in lost revenue. Security should also be a concern, as poorly configured DNS can be exploited by cybercriminals for phishing attacks or unauthorized access. Overall, adding DNS hostnames can offer strategic advantages, but prudent management, security measures.	N/A
	م ما ما نائل م				•		
				_	syntax, such as:	-	
	_			hosted on name-		measures, and potential	
1	Hostnam	In	8	based virtual	www.example.co	performance enhancements	
7	es	fo	0	hosts.	m[192.0.32.10]	should be carefully weighed.	

18	,	In fo	3 1 4 2 2	Reverse NAT is a technology which lets multiple computers offer public services on different ports via the same IP address. Based on OS fingerprinting results, it seems that different operating systems are listening on different remote ports. Note that this behavior may also indicate the presence of a intercepting proxy, a load balancer or a traffic shaper.	Make sure that this setup is authorized by your security policy	Detecting the use of reverse NAT (Network Address Translation) or intercepting proxies within a business's network can have various business implications. On the positive side, such detection can help in identifying potential security vulnerabilities or unauthorized activities, allowing the business to take proactive measures to safeguard its network and data. By identifying and addressing these elements, the organization can enhance its cybersecurity posture and protect sensitive information from external threats. However, there can be negative aspects as well. Unauthorized reverse NAT or intercepting proxies might indicate unauthorized network configuration or potential data exfiltration attempts, leading to breaches of confidential data and potential legal consequences. In certain cases, legitimate use of these technologies might be for monitoring and security purposes, but their presence could raise concerns about user privacy and data protection. In summary, detecting reverse NAT or intercepting proxies is crucial for maintaining network security, but careful evaluation of their origins and purposes is necessary to mitigate risks and ensure compliance with privacy and security regulations.	N/A
----	---	----------	-----------------------	---	---	---	-----

1 9	Inconsist ent Hostnam e and IP Address	In fo	4 6 2 1 5	The name of this machine either does not resolve or resolves to a different IP address. This may come from a badly configured reverse DNS or from a host file in use on the Nessus scanning host. As a result, URLs in plugin output may not be directly usable in a web browser and some web tests may be incomplete.	Fix the reverse DNS or host file.	hostname and IP address mappings within a business's network can have significant business impacts. On the negative side, these inconsistencies can lead to operational disruptions, as services and applications might fail to communicate properly, resulting in downtime and reduced productivity. This can also impact customer experience if online services become inaccessible or unreliable. Furthermore, inconsistent mappings can complicate troubleshooting and diagnostics, potentially prolonging issue resolution and increasing IT support costs. From a security perspective, these inconsistencies can be exploited by attackers for various types of cyberattacks, including man-in-the-middle attacks or unauthorized access. On the positive side, addressing these inconsistencies can lead to improved network reliability, better user experiences, streamlined operations, and enhanced security posture. It's crucial to maintain accurate and up-to-date records of hostname and IP address mappings to prevent these negative impacts and ensure the smooth functioning of the business's digital infrastructure.	n/A
-----	--	-------	-----------------------	--	--------------------------------------	--	-----

2 0	Web Server robots.tx t Informati on Disclosur e	inf O	1 0 3 0 2	The remote host contains a file named 'robots.txt' that is intended to prevent web 'robots' from visiting certain directories in a website for maintenance or indexing purposes. A malicious user may also be able to use the contents of this file to learn of sensitive documents or directories on the affected site and either retrieve them directly or target them for other attacks.	Review the contents of the site's robots.txt file, use Robots META tags. instead of entries in the robots.txt file, and/or adjust the web server's access controls to limit access to sensitive. material.	The inadvertent disclosure of web server robots.txt files can have notable business impacts. On the negative side, it can expose sensitive directory structures, URLs, and potentially confidential information to the public or malicious actors, leading to increased security risks, targeted attacks, and potential data breaches. This could damage the company's reputation, erode customer trust, and result in legal and regulatory implications, especially if sensitive customer or business data is exposed. Moreover, competitors could gain insights into the company's website structure and strategies, impacting the business's competitive edge. On the positive side, identifying and rectifying such disclosure issues promptly can enhance cybersecurity, protect sensitive information, and prevent potential attacks. Maintaining robust web server configurations and ensuring that robots.txt files are correctly configured can mitigate the risks associated with unintentional information disclosure, preserving the company's reputation and customer trust.	8443
-----	--	----------	-----------------------	---	--	---	------