

**Auditoría/Informe del proyecto del
equipo Gryffindor CIT31-01**

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ENUNCIADO

Usted trabaja para una empresa de SmartBuildings. Ante la emergencia de Coronavirus se le pide desplegar un sistema de SmartCities para comunicar en tiempo real a los miembros del sistema sanitario. Para ello despliega en dos edificios sistemas basados en gateways Linux (puede escoger la distribución más apropiada). Dichos sistemas permiten enviar información mediante una interfaz web a una base de datos alojada en uno de los edificios. A dicha base de datos y servicio web solo se puede acceder desde la intranet del edificio. Además, en el servidor, debe alojar una plataforma web para que todo el público pueda enviar consultas y otra información para permitir servicios de telemedicina.

Debe planificar un sistema seguro que permita a los gateway enviar los datos al servidor, que además debe estar accesible a los habitantes del edificio y cualquier usuario doméstico (todos ellos usuarios de Windows). Dichos usuarios se conectan desde Intranet donde se dispone de una LAN WiFi que mantiene conectados los equipos mencionados y, además, dispositivos móviles.

Adicionalmente, el profesor dijo que tratáramos de hacer nuestro proyecto de mensajería sin alterar la infraestructura original.

RED PROPUESTA

Inicialmente nos centramos por un diseño como el mencionado en el enunciado, tanto por simplicidad como por petición del enunciado, en el que se comunica el exterior con el interior mediante una VPN para evitar tener que alterar la infraestructura original de la empresa, incluyendo firewalls. La red VPN tiene la ventaja de cifrar el tráfico durante el establecimiento de conexión con los servidores, lo que hace que ya no aparezca texto en claro sensible con datos del usuario que pueda ser fácilmente expuesto en redes Wi-fi no muy seguras y dificulta que un ataque man-in-the-middle pueda acceder a estos, algo vital para el servicio de mensajería.

Al comienzo tratamos de usar la VPN preinstalada de Windows, pero por comodidad decidimos emplear el software profesional OpenVPN. Según las instrucciones de instalación (WunderTech, 2022), hemos decidido que nuestra VPN es 192.168.60.0/24 es la VPN, llamada OpenVPN Servidor, la Clave pre-compartida es "SorbeteDeLimon" y el resto queda por defecto. Estos parámetros los utilizamos para el Firewall de su edificio también. El usuario es SSR con nombre completo "Albus Dumbledore".

El edificio remoto tiene red 192.168.57.0/24, el edificio de la empresa 192.168.56.0/24 y la internet la simulamos con la 100.200.0.0/24, inicialmente tratamos de hacer una conexión entre dos ordenadores físicos virtualizando los edificios y con un módem físico entre medias, pero no funcionó así que pasamos a virtualizarlo todo en una máquina y quitarnos el router de en medio. Sin embargo, ambos firewalls están conectados entre sí mediante dos adaptadores puente (así que a la hora de montarlo debemos tener el adaptador correcto instalado).

En la infraestructura original los gateways son del tipo pfSense y utilizan un único firewall por edificio de política restrictiva hacia adentro, para mayor seguridad (menos funcionalidades supone menos potenciales vulnerabilidades), permitiendo la entrada por el puerto 443 y 80 desde la LAN (también está el 3306 para el mySQL por LAN); y sin suponer mayor profundidad en la red, para permitir virtualizar varias máquinas.

La BBDD es SQL (MariaDB) mediante xampp accesible con IP de la LAN y contraseña.

El material de nuestra red puede encontrarse en el github:

<https://github.com/tardisfromtornspace/ProyectoGryffindorCIT31-01.git>

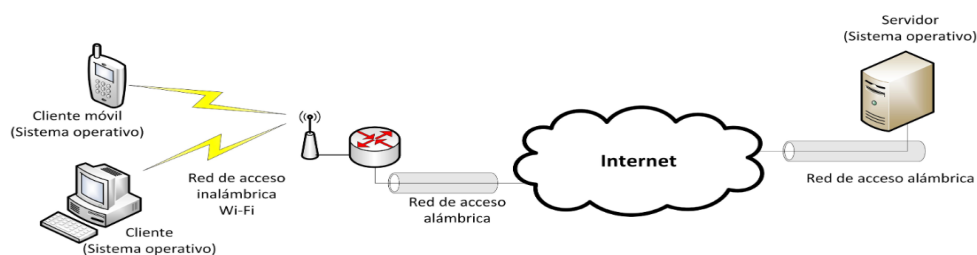


Figura 1: Modelo esquemático de la red propuesta (Sánchez, 2022).

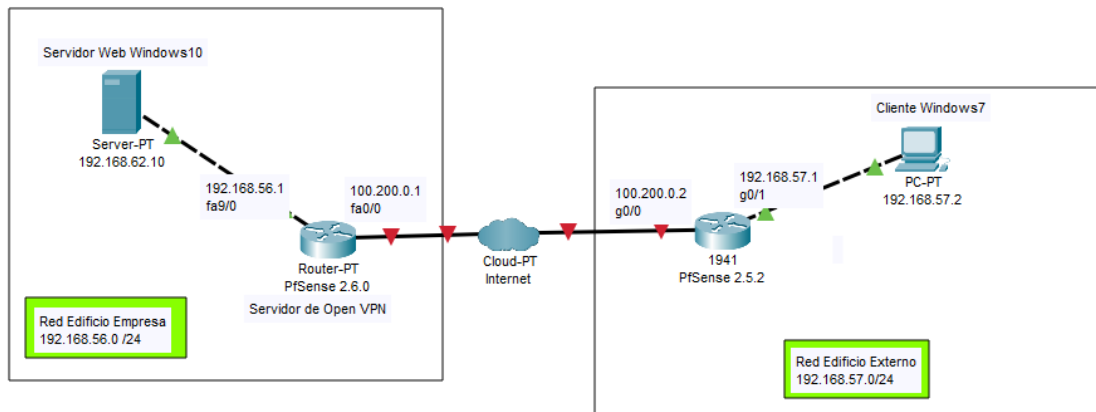


Figura 2: Esquemático de la red utilizada para realizar el trabajo (Elaboración propia).

AUDITORÍA

Hemos decidido emplear una auditoría de caja blanca por falta de tiempo y para mayor eficiencia, con un conocimiento total de la red.

Los ataques se hacen desde 3 sitios, edificio de la empresa, edificio remoto y desde la internet, con una Kali Linux.

1. Enumeración de redes, componentes, topologías y protocolos

Hay 3 redes, mencionadas en el apartado red propuesta:

LANA – La red del edificio de la empresa 192.168.56.0/24 tiene configurada una VPN. Tiene una máquina servidor (192.168.56.10) y el router pfSense1 (192.168.56.1)

LANB – La red edificio remoto 192.168.57.0/24. Tiene una máquina clienteRemoto (192.168.57.2) y el router pfSense2 (192.168.57.1)

WAN – Simulación del internet 100.200.0.0/24. Tiene los dos routers (pfSense1 con 100.200.0.1 y pfSense2 con 100.200.0.2).

Todos ellos emplean topología en estrella, menos la conexión de WAN, simulada con un P2P. Todos ellos emplean máscara /24 por simplicidad.

Routers:

pfSense1: es el que conecta LANA con WAN

pfSense2: es el que conecta LANB con WAN

-Ambos actúan con el mismo tipo de firewall: política permisiva desde LAN y restrictiva desde WAN.

Usamos protocolo TCP/IP para las conexiones, salvo OpenVPN, que se especializa en el uso de UDP.

2. Identificación de los sistemas operativos instalados

1. **pfSense1 (#R1):** pfSense 2.6.0-RELEASE FreeBSD 64-bit 12.3-STABLE
2. **pfSense2 (#R2):** pfSense 2.5.2-RELEASE FreeBSD 64-bit 12.2-STABLE
3. **ClienteRemoto (#LANB1):** ~~Windows XP 32-bit con parche Service Pack 3~~ *No hemos usado el Windows XP por su gran número de vulnerabilidades conocidas y la imposibilidad de actualizar o parchear gran parte de ellas, así que hemos empleado un Windows 7 Ultimate 32-bit bit 6.1.7601 Service Pack 1 Build 7601*
4. **Servidor (#LANB2):** Windows 10 Education 64-bit, versión 1903, versión del SO 18362.592

3. Análisis de servicios y aplicaciones

NOTA: Previo a esto hemos ido eliminando aplicaciones innecesarias en el Servidor.

pfSense1 (#R1)

Nmap LAN

- | | PORT | STATE | SERVICE | VERSION |
|---|------|-------|---------|------------|
| • | 80 | tcp | open | http |
| • | 443 | tcp | open | ssl/https? |

Dispone solamente del servicio http en el puerto 80 para la configuración del pfsense. Lo mismo ocurre con el puerto 443, para la conexión por https que ha sido configurada en el pfSense1.

Nmap WAN

	PORT	STATE	SERVICE	VERSION
--	------	-------	---------	---------

El puerto 1194 se encuentra abierto para la comunicación por VPN, aunque Nmap no lo ha detectado.

Lista de servicios (todos los servicios locales de pfSense1, no hecha por Nmap sino al verlo nosotros en caja blanca):

- dpinger (Gateway Monitoring Daemon)
- openvpn (OpenVPN server: VPN Servidor)
- syslogd (System Logger Daemon)
- unbound (DNS Resolver)

pfSense2 (#R2):

Nmap LAN

- | | PORT | STATE | SERVICE | VERSION |
|---|------|-------|---------|----------------|
| • | 53 | tcp | open | domain Unbound |
| • | 80 | tcp | open | http |
| • | 443 | tcp | open | ssl/http |

Similar a pfSense1, pero en este caso el puerto 53 se encuentra abierto. Este servicio se utiliza para comunicar tramas DNS.

Nmap WAN

	PORT	STATE	SERVICE	VERSION
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El puerto 1194 se encuentra abierto para la comunicación por VPN, aunque Nmap no lo ha detectado.

Lista de servicios (todos los servicios locales de pfSense2, no hecha por Nmap sino al verlo nosotros en caja blanca):

- dpinger (Gateway Monitoring Daemon)
- pcscd (PC/SC Smart Card Daemon)
- syslogd (System Logger Daemon)
- unbound (DNS Resolver)

CienteRemoto (#LANB1):

Resultados del nmap

- | PORT | STATE | SERVICE | VERSION |
|-----------|-------|--------------|-------------------------------------------------------------------------------|
| 135/tcp | open | msrpc | Microsoft Windows RPC |
| 139/tcp | open | netbios-ssn | Microsoft Windows netbios-ssn |
| 445/tcp | open | microsoft-ds | Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds
(workgroup: WORKGROUP) |
| 5357/tcp | open | http | Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP) |
| 49152/tcp | open | msrpc | Microsoft Windows RPC |
| 49153/tcp | open | msrpc | Microsoft Windows RPC |
| 49154/tcp | open | msrpc | Microsoft Windows RPC |
| 49155/tcp | open | msrpc | Microsoft Windows RPC |
| 49156/tcp | open | msrpc | Microsoft Windows RPC |
| 49157/tcp | open | msrpc | Microsoft Windows RPC |

Lista de aplicaciones:

1. (Las estándar del paquete Microsoft para la versión de Windows)
2. Microsoft.NET Framework 4.7.03062
3. Mozilla Firefox x86 (es-ES) 101.0.1
4. Mozilla Maintenance Service 101.0.1.8194
5. OpenVPN x86 2.5.021
6. Oracle VM VirtualBox Guest Additions 6.1.0 *(No se va a contar para vulnerabilidades)*

Lista de servicios (todos los servicios locales de windows, no hecha por Nmap, por lo que no se tendrá tan en cuenta):

1. Name
2. ActiveX Installer (AxInstSV)
3. Adaptive Brightness
4. Application Experience
5. Application Identity
6. Application Information
7. Application Layer Gateway Service
8. Application Management
9. ASP.NET State Service
10. Background Intelligent Transfer Service
11. Base Filtering Engine
12. BitLocker Drive Encryption Service
13. Block Level Backup Engine Service
14. Bluetooth Support Service
15. BranchCache
16. Certificate Propagation
17. CNG Key Isolation
18. COM+ Event System
19. COM+ System Application
20. Computer Browser
21. Credential Manager
22. Cryptographic Services
23. DCOM Server Process Launcher
24. Desktop Window Manager Session Manager
25. DHCP Client

26. Diagnostic Policy Service
27. Diagnostic Service Host
28. Diagnostic System Host
29. Diagnostics Tracking Service
30. Disk Defragmenter
31. Distributed Link Tracking Client
32. Distributed Transaction Coordinator
33. DNS Client
34. Encrypting File System (EFS)
35. Extensible Authentication Protocol
36. Fax
37. Function Discovery Provider Host
38. Function Discovery Resource Publication
39. Group Policy Client
40. Health Key and Certificate Management
41. HomeGroup Listener
42. HomeGroup Provider
43. Human Interface Device Access
44. IKE and AuthIP IPsec Keying Modules
45. Interactive Services Detection
46. Internet Connection Sharing (ICS)
47. Internet Explorer ETW Collector Service
48. IP Helper
49. IPsec Policy Agent
50. KtmRm for Distributed Transaction Coordinator
51. Link-Layer Topology Discovery Mapper
52. Media Center Extender Service
53. Microsoft .NET Framework NGEN v2.0.50727_X86
54. Microsoft .NET Framework NGEN v4.0.30319_X86
55. Microsoft iSCSI Initiator Service
56. Microsoft Software Shadow Copy Provider
57. Mozilla Maintenance Service
58. Multimedia Class Scheduler
59. Net.Msmq Listener Adapter
60. Net.Pipe Listener Adapter
61. Net.Tcp Listener Adapter
62. Net.Tcp Port Sharing Service
63. Netlogon
64. Network Access Protection Agent
65. Network Connections
66. Network List Service
67. Network Location Awareness
68. Network Store Interface Service
69. Offline Files
70. OpenVPN Interactive Service
71. Parental Controls
72. Peer Name Resolution Protocol
73. Peer Networking Grouping
74. Peer Networking Identity Manager
75. Performance Logs & Alerts
76. Plug and Play

77. PnP-X IP Bus Enumerator
78. PNRP Machine Name Publication Service
79. Portable Device Enumerator Service
80. Power
81. Print Spooler
82. Problem Reports and Solutions Control Panel Support
83. Program Compatibility Assistant Service
84. Protected Storage
85. Quality Windows Audio Video Experience
86. Remote Access Auto Connection Manager
87. Remote Access Connection Manager
88. Remote Desktop Configuration
89. Remote Desktop Services
90. Remote Desktop Services UserMode Port Redirector
91. Remote Procedure Call (RPC)
92. Remote Procedure Call (RPC) Locator
93. Remote Registry
94. Routing and Remote Access
95. RPC Endpoint Mapper
96. Secondary Logon
97. Secure Socket Tunneling Protocol Service
98. Security Accounts Manager
99. Security Center
100. Server
101. Shell Hardware Detection
102. Smart Card
103. Smart Card Removal Policy
104. SNMP Trap
105. Software Protection
106. SPP Notification Service
107. SSDP Discovery
108. Superfetch
109. System Event Notification Service
110. Tablet PC Input Service
111. Task Scheduler
112. TCP/IP NetBIOS Helper
113. Telephony
114. Themes
115. Thread Ordering Server
116. UPnP Device Host
117. User Profile Service
118. Virtual Disk
119. VirtualBox Guest Additions Service
120. Volume Shadow Copy
121. WebClient
122. Windows Audio
123. Windows Audio Endpoint Builder
124. Windows Backup
125. Windows Biometric Service
126. Windows CardSpace
127. Windows Color System

- 128. Windows Connect Now - Config Registrar
- 129. Windows Defender
- 130. Windows Driver Foundation - User-mode Driver Framework
- 131. Windows Error Reporting Service
- 132. Windows Event Collector
- 133. Windows Event Log
- 134. Windows Firewall
- 135. Windows Font Cache Service
- 136. Windows Image Acquisition (WIA)
- 137. Windows Installer
- 138. Windows Management Instrumentation
- 139. Windows Media Center Receiver Service
- 140. Windows Media Center Scheduler Service
- 141. Windows Media Player Network Sharing Service
- 142. Windows Modules Installer
- 143. Windows Presentation Foundation Font Cache 3.0.0.0
- 144. Windows Remote Management (WS-Management)
- 145. Windows Search
- 146. Windows Time
- 147. Windows Update
- 148. WinHTTP Web Proxy Auto-Discovery Service
- 149. Wired AutoConfig
- 150. WLAN AutoConfig
- 151. WMI Performance Adapter
- 152. Workstation
- 153. WWAN AutoConfig

Servidor (#LANB2):

Resultados del nmap

- | PORT | STATE | SERVICE | VERSION |
|----------|-------|----------|--------------------------------------------------------|
| 80/tcp | open | http | Apache httpd 2.4.52 (OpenSSL/1.1.1m PHP/8.1.2) |
| 443/tcp | open | ssl/http | Apache httpd 2.4.52 ((Win64) OpenSSL/1.1.1m PHP/8.1.2) |
| 3306/tcp | open | mysql? | (MariaDB) |
| 5357/tcp | open | http | Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP) |

Los puertos 80 y 443 para la conexión http y https respectivamente.
En el puerto 3306 podemos encontrar la conexión a la base de datos mysql. El puerto 5357 se utiliza para detectar redes y dispositivos plug & play.

Lista de aplicaciones (sacadas desde Aplicaciones y características porque tanto WMIC CONO Get-itemProperty solo nos dicen los que hemos instalado nosotros):

1. Alarms & Clock 10.1910.3121.0
2. App Installer 1.0.32912.0
3. Camara 2019.926.20.0
4. Extensión de Imagen HEIF 1.0.23292.0
5. Extensiones de Imagen Webp 1.0.22753.0

6. Fotos de Microsoft 2019.19081.22010.0
7. Get Help 10.1909.22691.0
8. Maps 5.1909.2813.0
9. Microsoft Edge 44.18362.449.0
10. Microsoft Store 120001.1001.0
11. Microsoft Update Health Tools 2.84.0.0
12. Microsoft Visual C++ 2015-2019 Redistributable (x64) - 14.29.30135
13. Mozilla Firefox (x86 es-ES) 100.0.2
14. Mozilla Maintenance Service 71.0
15. Oracle VM VirtualBox Guest Additions 6.1.0 (*No se va a contar para vulnerabilidades*)
16. Paquete de experiencia local en español (España) 18362.47.133.0
17. People 10.2105.4.0
18. XAMPP 8.1.2-0
19. Xbox Game Bar 3.36.6003.0
20. Your Phone 1.19122.89.0

Todas las aplicaciones de Microsoft Windows se encuentran actualizadas al parche, menos el Internet Explorer 11, que lo hemos borrado junto a otras aplicaciones como el Paint3D y servicios de contacto con Microsoft.

Lista de servicios (todos los servicios de windows locales, no hecha por Nmap, por lo que no se tendrá tan en cuenta):

1. Acceso a datos de usuarios_45406
2. Actualizador de zona horaria automática
3. Adaptador de rendimiento de WMI
4. Administración de aplicaciones
5. Administración de autenticación de Xbox Live
6. Administración de capas de almacenamiento
7. Administración remota de Windows (WS-Management)
8. Administrador de conexiones automáticas de acceso remoto
9. Administrador de conexiones de acceso remoto
10. Administrador de conexiones de Windows
11. Administrador de configuración de dispositivos
12. Administrador de credenciales
13. Administrador de cuentas de seguridad
14. Administrador de cuentas web
15. Administrador de identidad de redes de mismo nivel
16. Administrador de mapas descargados
17. Administrador de pagos y NFC/SE
18. Administrador de sesión local
19. Administrador de usuarios
20. Adquisición de imágenes de Windows (WIA)
21. Agent Activation Runtime_45406
22. Agente de conexión de red
23. Agente de detección en segundo plano de DevQuery
24. Agente de directiva IPsec
25. Agente de eventos de tiempo
26. Agente de eventos del sistema
27. Agente de supervisión en tiempo de ejecución de Protección del sistema
28. Agrupación de red del mismo nivel
29. Aislamiento de claves CNG

30. Almacenamiento de datos de usuarios_45406
31. Aplicación auxiliar de NetBIOS sobre TCP/IP
32. Aplicación auxiliar IP
33. Aplicación del sistema COM+
34. Archivos sin conexión
35. Asignador de detección de topologías de nivel de vínculo
36. Asignador de extremos de RPC
37. Asistente para la conectividad de red
38. Audio de Windows
39. Autenticación natural
40. Ayuda del Panel de control de Informes de problemas y soluciones
41. Ayudante para el inicio de sesión de cuenta Microsoft
42. BranchCache
43. Captura de SNMP
44. CaptureService_45406
45. Carpetas de trabajo
46. Centro de seguridad
47. Cliente de directiva de grupo
48. Cliente de seguimiento de vínculos distribuidos
49. Cliente DHCP
50. Cliente DNS
51. Cliente web
52. Cola de impresión
53. Compilador de extremo de audio de Windows
54. Comprobador puntual
55. Conexión compartida a Internet (ICS)
56. Conexiones de red
57. Configuración automática de dispositivos conectados a la red
58. Configuración automática de redes cableadas
59. Configuración automática de WLAN
60. Configuración automática de WWAN
61. Configuración de Escritorio remoto
62. ConsentUX_45406
63. Contenedor de Microsoft Passport
64. Control parental
65. Coordinador de transacciones distribuidas
66. Copias de seguridad de Windows
67. CoreMessaging
68. CredentialEnrollmentManagerUserSvc_45406
69. Datos de contactos_45406
70. Detección de hardware shell
71. Detección SSDP
72. DeviceAssociationBroker_45406
73. DevicePicker_45406
74. DevicesFlow_45406
75. Diagnostic Execution Service
76. Directiva de extracción de tarjetas inteligentes
77. Disco virtual
78. Dispositivo host de UPnP
79. DLL de host del Contador de rendimiento
80. Energía

81. Enrutamiento y acceso remoto
82. Estación de trabajo
83. Eventos de adquisición de imágenes estáticas
84. Experiencia de calidad de audio y vídeo de Windows (qWave)
85. Extensiones y notificaciones de impresora
86. Fax
87. Firewall de Windows Defender
88. GraphicsPerfSvc
89. Hora de la red de telefonía móvil
90. Hora de Windows
91. Host de proveedor de detección de función
92. Host de sistema de diagnóstico
93. Host del servicio de diagnóstico
94. Identidad de aplicación
95. Información de la aplicación
96. Iniciador de procesos de servidor DCOM
97. Inicio de sesión secundario
98. Instalador de ActiveX (AxInstSV)
99. Instalador de módulos de Windows
100. Instantáneas de volumen
101. Instrumental de administración de Windows
102. Interfaz de servicio invitado de Hyper-V
103. KTMRM para DTC (Coordinador de transacciones distribuidas)
104. Llamada a procedimiento remoto (RPC)
105. MessagingService_45406
106. Microsoft App-V Client
107. Microsoft Passport
108. Microsoft Update Health Service
109. Modo incrustado
110. Módulos de creación de claves de IPsec para IKE y AuthIP
111. Mostrar el servicio de directivas
112. Motor de filtrado de base
113. Mozilla Maintenance Service
114. Net Logon
115. OpenSSH Authentication Agent
116. Optimización de distribución
117. Optimizar unidades
118. Partida guardada en Xbox Live
119. Plug and Play
120. Preparación de aplicaciones
121. PrintWorkflow_45406
122. Programador de tareas
123. Propagación de certificados
124. Protección de software
125. Protocolo de autenticación extensible
126. Protocolo de resolución de nombres de mismo nivel
127. Proveedor de instantáneas de software de Microsoft
128. Publicación de recurso de detección de función
129. Reconoc. ubicación de red
130. Recopilador de eventos de Windows

131. Redirector de puerto en modo usuario de Servicios de Escritorio remoto
132. Registrador de configuración de Windows Connect Now
133. Registro de eventos de Windows
134. Registro remoto
135. Registros y alertas de rendimiento
136. Servicio Administrador de funcionalidad de acceso
137. Servicio Asistente para la compatibilidad de programas
138. Servicio AssignedAccessManager
139. Servicio AVCTP
140. Servicio biométrico de Windows
141. Servicio Cifrado de unidad BitLocker
142. Servicio de administración de aplicaciones de empresa
143. Servicio de administración de radio
144. Servicio de administración de Windows
145. Servicio de administrador de conexiones con servicios Wi-Fi Direct
146. Servicio de administrador de licencias de Windows
147. Servicio de almacenamiento
148. Servicio de Antivirus de Windows Defender
149. Servicio de asistente para perfil local
150. Servicio de asociación de dispositivos
151. Servicio de caché de fuentes de Windows
152. Servicio de cierre de invitado de Hyper-V
153. Servicio de compatibilidad con Bluetooth
154. Servicio de configuración de red
155. Servicio de configuración de traslación de IP
156. Servicio de datos del sensor
157. Servicio de datos espacial
158. Servicio de detección automática de proxy web WinHTTP
159. Servicio de directivas de diagnóstico
160. Servicio de dispositivo de interfaz humana
161. Servicio de enrutador de AllJoyn
162. Servicio de enrutamiento de mensajes de inserción del Protocolo de aplicación inalámbrica (WAP) de administración de dispositivos
163. Servicio de enumeración de dispositivos de tarjeta inteligente
164. Servicio de experiencia de idioma
165. Servicio de geolocalización
166. Servicio de historial de archivos
167. Servicio de host HV
168. Servicio de implementación de AppX (AppXSVC)
169. Servicio de infraestructura de tareas en segundo plano
170. Servicio de inscripción de administración de dispositivos
171. Servicio de inspección de red de Antivirus de Windows Defender
172. Servicio de instalación de dispositivos
173. Servicio de instalación de Microsoft Store
174. Servicio de intercambio de datos de Hyper-V
175. Servicio de latido de Hyper-V
176. Servicio de licencia de cliente (ClipSVC)
177. Servicio de lista de redes
178. Servicio de mejora de visualización
179. Servicio de notificación de eventos de sistema

- 180. Servicio de Panel de escritura a mano y teclado táctil
- 181. Servicio de percepción de Windows
- 182. Servicio de perfil de usuario
- 183. Servicio de plataforma de dispositivos conectados
- 184. Servicio de Protección contra amenazas avanzada de Windows Defender
- 185. Servicio de protocolo de túnel de sockets seguros
- 186. Servicio de prueba comercial
- 187. Servicio de publicación de nombres de equipo PNRP
- 188. Servicio de puerta de enlace de audio de Bluetooth
- 189. Servicio de puerta de enlace de nivel de aplicación
- 190. Servicio de red de Xbox Live
- 191. Servicio de repositorio de estado
- 192. Servicio de sensores
- 193. Servicio de simulación de percepción de Windows
- 194. Servicio de sincronización de hora de Hyper-V
- 195. Servicio de solución de problemas recomendado
- 196. Servicio de soporte técnico de usuario de Bluetooth_45406
- 197. Servicio de supervisión de sensores
- 198. Servicio de transferencia inteligente en segundo plano (BITS)
- 199. Servicio de uso compartido de datos
- 200. Servicio de uso compartido de puertos Net.Tcp
- 201. Servicio de uso compartido de red del Reproductor de Windows Media
- 202. Servicio de usuario de difusión y GameDVR_45406
- 203. Servicio de usuario de notificaciones de inserción de Windows_45406
- 204. Servicio de usuario de plataforma de dispositivos conectados_45406
- 205. Servicio de usuario del portapapeles_45406
- 206. Servicio de virtualización de Escritorio remoto de Hyper-V
- 207. Servicio de virtualización de la experiencia de usuario
- 208. Servicio de Windows Insider
- 209. Servicio de zona con cobertura inalámbrica móvil de Windows
- 210. Servicio del iniciador iSCSI de Microsoft
- 211. Servicio del módulo de copia de seguridad a nivel de bloque
- 212. Servicio del sistema de notificaciones de inserción de Windows
- 213. Servicio enrutador de SMS de Microsoft Windows.
- 214. Servicio enumerador de dispositivos portátiles
- 215. Servicio FrameServer de la Cámara de Windows
- 216. Servicio host de proveedor de cifrado de Windows
- 217. Servicio Informe de errores de Windows
- 218. Servicio Interfaz de almacenamiento en red
- 219. Servicio Orquestador de actualizaciones
- 220. Servicio PowerShell Direct de Hyper-V
- 221. Servicio PushToInstall de Windows
- 222. Servicio Recopilador estándar del concentrador de diagnósticos de Microsoft (R)
- 223. Servicio Seguridad de Windows
- 224. Servicio telefónico
- 225. Servicio Volumetric Audio Compositor
- 226. Servicios de cifrado
- 227. Servicios de Escritorio remoto

- 228. Servidor
- 229. Shared PC Account Manager
- 230. Sincronizar host_45406
- 231. Sistema de cifrado de archivos (EFS)
- 232. Sistema de eventos COM+
- 233. SMP de Espacios de almacenamiento de Microsoft
- 234. Solicitante de instantáneas de volumen de Hyper-V
- 235. SysMain
- 236. Tarjeta inteligente
- 237. Telefonía
- 238. Telemetría y experiencias del usuario conectado
- 239. Temas
- 240. Ubicador de llamada a procedimiento remoto (RPC)
- 241. Uso de datos
- 242. VirtualBox Guest Additions Service
- 243. WalletService
- 244. WarpJITSvc
- 245. Windows Installer
- 246. Windows Search
- 247. Windows Update
- 248. Windows Update Medic Service
- 249. Xbox Accessory Management Service

4. Detección, comprobación y evaluación de vulnerabilidades

NOTA: En las búsquedas manualmente solo hemos incluido aquellas vulnerabilidades que afectan al servicio / aplicación / S.O. / Sistema con el SW utilizado. Aquellas vulnerabilidades que ya hubieran sido parcheadas o bien no se incluyen, o solo se cuentan si tenemos dos versiones de la misma aplicación / servicio / S.O. Algunas vulnerabilidades relacionadas con el HW no se han podido evaluar en profundidad (puesto que son máquinas virtuales y cada miembro del equipo emplea un HW diferente).

Las vulnerabilidades del vulscan se han sacado una vez hemos cerrado puertos innecesarios que hemos considerado como vulnerables previamente y que no limitarían la funcionalidad pedida.

pfSense1 (#R1):

Búsqueda manual:

1. Necesitamos los puertos 80 y 443 abiertos por el lado de LAN (evitar que se bloquee acceso al firewall desde dentro), por lo que no podemos cerrarlos desde allá.
2. **CVE-2020-26147, CVE-2020-24588, CVE-2020-26144**, de problemas de seguridad con la agregación y fragmentación de frames del 802.11 junto a la falta de validación de la longitud del SSID. (FreeBSD, 2022)
3. **CVE-2022-0778**: un error en la función BN_mod_sqrt() encargada de calcular una raíz cuadrada modular causa que se forme un bucle infinito si el módulo no es primo (FreeBSD, 2022).
4. **CVE-2022-23084, CVE-2022-23085** un proceso en una jaula puede influenciar al entorno huésped si se indica que el netmap (empleado en máquinas virtuales o en mensajes de usuarios cliente-kernel) esté incluido en el devfs_ruleset. El impacto es potencialmente moderado pero poco común. (FreeBSD, 2022).
5. **CVE-2022-23088**: un heap overflow en el Wi-Fi permite que si nuestro router actúa como cliente, al escanear, un frame de baliza maliciosa puede permitir sobrescribir el kernel y conllevar una ejecución remota de código (FreeBSD, 2022)
6. **CVE-2022-23086** ciertos handlers de disco mpr, mps y mpt (que deciden cuál unidad de almacenamiento está en uso) pueden permitir a un usuario del grupo root escalar en privilegios aún más (FreeBSD, 2022).
7. **CVE-2021-29632** un problema con la consola causa que si se usa un búffer de marcado mientras el texto de consola se mueve, se puedan sobrescribir estructuras de datos de la consola y memoria del kernel, creando comportamientos inesperados e inestabilidad del sistema (FreeBSD, 2022).
8. Además, hubo una vulnerabilidad posible, y es no haber cambiado las contraseñas de acceso al router de las por defecto (admin, pfsense). **Se corrigió antes de hacer el análisis (nueva contraseña es "Lapatata87pocha") y por lo tanto no se ha tenido en cuenta en el apartado 5.**
9. También hubo una vulnerabilidad, y es usar un certificado autofirmado para el webConfigurator de conexión segura. Este se ha resuelto mediante el paso a autoridad de certificación propia generada y difundida por nosotros y que los navegadores de esa red la importaran para confiar en dicha autoridad de certificación, y en el nuevo certificado de servidor para conexión firmado por ésta. **Se corrigió antes de hacer el análisis y por lo tanto no se ha tenido en cuenta en el apartado 5.**

Resultados vulscan:

PORT STATE SERVICE VERSION

1. 53/tcp open domain Unbound
2. | vulscan: VulDB - <https://vuldb.com>:
3. | [114712] UnboundID LDAP SDK Access Control SimpleBindRequest privilege escalation
4. | [68440] FreeBSD 10.0/10.1 Unbound iterator.c denial of service
5. |
6. | MITRE CVE - <https://cve.mitre.org>:
7. | **[CVE-2012-1192] The resolver in Unbound before 1.4.11 overwrites cached server names and TTL values in NS records during the processing of a response to an A record query, which allows remote attackers to trigger continued resolvability of revoked domain names via a "ghost domain names" attack.**
8. | [CVE-2011-4869] validator/val_nsec3.c in Unbound before 1.4.13p2 does not properly perform proof processing for NSEC3-signed zones, which allows remote DNS servers to cause a denial of service (daemon crash) via a malformed response that lacks expected NSEC3 records, a different vulnerability than CVE-2011-4528.
9. | [CVE-2011-4528] Unbound before 1.4.13p2 attempts to free unallocated memory during processing of duplicate CNAME records in a signed zone, which allows remote DNS servers to cause a denial of service (daemon crash) via a crafted response.
10. | [CVE-2011-1922] daemon/worker.c in Unbound 1.x before 1.4.10, when debugging functionality and the interface-automatic option are enabled, allows remote attackers to cause a denial of service (assertion failure and daemon exit) via a crafted DNS request that triggers improper error handling.
11. | [CVE-2010-0969] Unbound before 1.4.3 does not properly align structures on 64-bit platforms, which allows remote attackers to cause a denial of service (daemon crash) via unspecified vectors.
12. | [CVE-2009-4008] Unbound before 1.4.4 does not send responses for signed zones after mishandling an unspecified query, which allows remote attackers to cause a denial of service (DNSSEC outage) via a crafted query.
13. | [CVE-2009-3602] Unbound before 1.3.4 does not properly verify signatures for NSEC3 records, which allows remote attackers to cause secure delegations to be downgraded via DNS spoofing or other DNS-related attacks in conjunction with crafted delegation responses.
14. | [CVE-2006-5336] Multiple unspecified vulnerabilities in the Change Data Capture (CDC) component in Oracle Database 9.2.0.7, 10.1.0.5, and have unknown impact and remote authenticated attack vectors related to (1) sys.dbms_cdc_ipublish (Vuln# DB05) and (2) sys.dbms_cdc_isubscribe (DB06). NOTE: as of 20061023, Oracle has not disputed reports from reliable third parties that DB05 is for SQL injection in CREATE_CHANGE_TABLE and CHANGE_TABLE_TRIGGER, and DB06 is for PL/SQL injection in the PREPARE_UNBOUNDED_VIEW procedure.
15. | [CVE-2004-0891] Buffer overflow in the MSN protocol handler for gaim 0.79 to 1.0.1 allows remote attackers to cause a denial of service (application crash) and possibly execute arbitrary code via an "unexpected sequence of MSNSLP messages" that results in an unbounded copy operation that writes to the wrong buffer.
16. |
17. | SecurityFocus - <https://www.securityfocus.com/bid/>:

18. | [103458] UnboundID LDAP SDK for Java CVE-2018-1000134 Authentication Bypass Vulnerability
19. | [102817] Unbound CVE-2017-15105 Security Bypass Vulnerability
20. | [78263] Unbound CVE-2012-1192 Remote Security Vulnerability
21. | [71589] Unbound CVE-2014-8602 Remote Denial of Service Vulnerability
22. | [51115] Unbound Multiple Denial of Service Vulnerabilities
23. | [48209] Unbound DNSSEC Remote Denial of Service Vulnerability
24. | [47986] Unbound DNS Resolver Remote Denial of Service Vulnerability
25. | [38701] Unbound 'sock_list' Structure Allocation Remote Denial Of Service Vulnerability
26. | [37459] Unbound DNS Server NSEC3 Signature Verification DNS Spoofing Vulnerability
27. |
28. | IBM X-Force - <https://exchange.xforce.ibmcloud.com:>
29. | [73358] Unbound resolver security bypass
30. | [71868] Unbound NSEC3 denial of service
31. | [71867] Unbound RR denial of service
32. | [67863] Unbound signed zones denial of service
33. | [67645] Unbound DNS denial of service
34. | [56894] Unbound sock_list denial of service
35. | [53729] Unbound NSEC3 security bypass
36. | [30100] Oracle Database PREPARE_UNBOUNDED_VIEW SQL injection
37. |
38. | Exploit-DB - <https://www.exploit-db.com:>
39. | No findings
40. |
41. | OpenVAS (Nessus) - <http://www.openvas.org:>
42. | [863937] Fedora Update for unbound FEDORA-2011-17282
43. | [863673] Fedora Update for unbound FEDORA-2011-17337
44. | [863235] Fedora Update for unbound FEDORA-2011-7555
45. | [103370] Unbound Multiple Denial of Service Vulnerabilities
46. | [103170] Unbound DNS Resolver Remote Denial of Service Vulnerability
47. | [100531] Unbound 'sock_list' Structure Allocation Remote Denial Of Service Vulnerability
48. | [100417] Unbound DNS resolver Detection
49. | [100416] Unbound DNS Server NSEC3 Signature Verification DNS Spoofing Vulnerability
50. | [70775] Gentoo Security Advisory GLSA 201110-12 (unbound)
51. | [70689] Debian Security Advisory DSA 2370-1 (unbound)
52. | [70589] FreeBSD Ports: unbound
53. | [69758] FreeBSD Ports: unbound
54. | [69741] Debian Security Advisory DSA 2243-1 (unbound)
55. | [66597] Debian Security Advisory DSA 1963-1 (unbound)
56. |
57. | SecurityTracker - <https://www.securitytracker.com:>
58. | No findings
59. |
60. | OSVDB - <http://www.osvdb.org:>
61. | [79441] Unbound Cache Update Policy Deleted Domain Name Resolving Weakness

62. | [78807] Apple Mac OS X CoreUI Component Unbounded Stack Allocation URL Handling Remote Code Execution
63. | [77910] Unbound NSEC3-Signed Zones Response Parsing Remote DoS
64. | [77909] Unbound Duplicate Resource Record Parsing Remote DoS
65. | [73253] Unbound Signed Zone Query Response DNSSEC Outage Remote DoS
66. | [72750] Unbound daemon/worker.c DNS Request Error Handling Remote DoS
67. | [62903] Unbound on 64-bit Memory Alignment Remote DoS
68. | [58836] Unbound NSEC3 Record Signature Check Validation Bypass
69. | _
70. 80/tcp open http nginx
71. | vulscan: VulDB - <https://vuldb.com>:
72. | [176405] Nginx up to 1.13.5 Autoindex Module integer overflow
73. | [176114] Nginx Controller up to 3.6.x Agent Configuration File agent.conf permission
74. | [176113] Nginx Controller up to 3.9.x NAAS API Key Generation random values
75. | [176112] Nginx Controller up to 2.8.x/3.14.x systemd.txt insertion of sensitive information into sent data
76. | [176111] Nginx Controller up to 3.3.x Intra-Cluster Communication cleartext transmission
77. | [176110] Nginx Open Source/Plus/Ingress Controller Resolver off-by-one
78. | [171030] ExpressVPN Router 1 Nginx Webserver integer overflow
79. | [160163] Cloud Foundry Routing Nginx denial of service
80. | [159138] Kubernetes up to 0.27.x ingress-nginx privilege escalation
81. | [157631] Nginx Controller up to 1.0.1/2.8.x/3.4.x Kubernetes Package Download HTTP weak encryption
82. | [157630] Nginx Controller up to 1.0.1/2.8.x/3.4.x NATS Messaging System weak authentication
83. | [157629] Nginx Controller up to 1.0.1/2.8.x/3.4.x User Interface weak authentication
84. | [157572] Nginx Controller up to 3.4.0 API Endpoint Reflected cross site scripting
85. | [157571] Nginx Controller up to 1.0.1/2.9.0/3.4.0 User Interface cross site request forgery
86. | [155282] nginx up to 1.18.0 privilege escalation
87. | [154857] Nginx Controller up to 3.3.0 Web Server Logout weak authentication
88. | [154326] Nginx Controller up to 3.2.x Agent Installer Script install.sh privilege escalation
89. | [154324] Nginx Controller up to 3.2.x Postgres Database Server information disclosure
90. | [154323] Nginx Controller up to 3.1.x TLS weak authentication
91. | [152728] strong-nginx-controller up to 1.0.2 _nginxCmd privilege escalation
92. | [152416] Nginx Controller up to 3.1.x Controller API privilege escalation
93. | [148519] nginx up to 1.17.6 Error Page privilege escalation
94. | [145942] nginx 0.8.40 HTTP Proxy Module privilege escalation
95. | [144114] Xiaomi Mi WiFi R3G up to 2.28.22 Nginx Alias account directory traversal
96. | [133852] Sangfor Sundray WLAN Controller up to 3.7.4.2 Cookie Header nginx_webconsole.php privilege escalation

97. | [132132] SoftNAS Cloud 4.2.0/4.2.1 Nginx privilege escalation
98. | [131858] Puppet Discovery up to 1.3.x Nginx Container weak authentication
99. | [130644] Nginx Unit up to 1.7.0 Router Process memory corruption
100. | [127759] VeryNginx 0.3.3 Web Application Firewall 7PK Security Features
101. | [126525] nginx up to 1.14.0/1.15.5 ngx_http_mp4_module information disclosure
102. | [126524] nginx up to 1.14.0/1.15.5 HTTP2 denial of service
103. | [126523] nginx up to 1.14.0/1.15.5 HTTP2 denial of service
104. | [103517] nginx up to 1.13.2 Range Filter memory corruption
105. | [89849] nginx RFC 3875 Namespace Conflict privilege escalation
106. | [87719] nginx up to 1.11.0 ngx_files.c ngx_chain_to_iovec denial of service
107. | [80760] nginx 0.6.18/1.9.9 DNS CNAME Record denial of service
108. | [80759] nginx 0.6.18/1.9.9 DNS CNAME Record memory corruption
109. | [80758] nginx 0.6.18/1.9.9 DNS UDP Packet denial of service
110. | [65364] nginx up to 1.1.13 Default Configuration privilege escalation
111. | [61434] nginx 1.2.0/1.3.0 on Windows Access Restriction privilege escalation
112. | [59645] nginx up to 0.8.9 memory corruption
113. | [53592] nginx 0.8.36 privilege escalation
114. | [53590] nginx up to 0.8.9 information disclosure
115. | [51533] nginx 0.7.64 Terminal privilege escalation
116. | [50905] nginx up to 0.8.9 directory traversal
117. | [50903] nginx up to 0.8.10 memory corruption
118. | [50043] nginx up to 0.8.10 memory corruption
119. | [67677] nginx up to 1.7.3 SSL privilege escalation
120. | [67296] nginx up to 1.7.3 SMTP Proxy ngx_mail_smtp_starttls privilege escalation
121. | [12824] nginx 1.5.10 on 32-bit SPDY memory corruption
122. | [12822] nginx up to 1.5.11 SPDY memory corruption
123. | [11237] nginx up to 1.5.6 URI String privilege escalation
124. | [8671] nginx up to 1.4 proxy_pass privilege escalation
125. | [8618] nginx 1.3.9/1.4.0 http/ngx_http_parse.c ngx_http_parse_chunked Numeric Error
126. | [7247] nginx 1.2.6 Proxy Function weak authentication
127. | [5293] nginx up to 1.1.18 ngx_http_mp4_module memory corruption
128. | [4843] nginx up to 1.0.13/1.1.16 HTTP Header Response Parser ngx_http_parse.c denial of service
129. |
130. | MITRE CVE - <https://cve.mitre.org>:
131. | [CVE-2013-2070] http/modules/ngx_http_proxy_module.c in nginx 1.1.4 through 1.2.8 and 1.3.0 through 1.4.0, when proxy_pass is used with untrusted HTTP servers, allows remote attackers to cause a denial of service (crash) and obtain sensitive information from worker process memory via a crafted proxy response, a similar vulnerability to CVE-2013-2028.
132. | [CVE-2013-2028] The ngx_http_parse_chunked function in http/ngx_http_parse.c in nginx 1.3.9 through 1.4.0 allows remote attackers to cause a denial of service (crash) and execute arbitrary code via a chunked

Transfer-Encoding request with a large chunk size, which triggers an integer signedness error and a stack-based buffer overflow.

- 133. | [CVE-2012-3380] Directory traversal vulnerability in naxsi-ui/nx_extract.py in the Naxsi module before 0.46-1 for Nginx allows local users to read arbitrary files via unspecified vectors.
- 134. | [CVE-2012-2089] Buffer overflow in ngx_http_mp4_module.c in the ngx_http_mp4_module module in nginx 1.0.7 through 1.0.14 and 1.1.3 through 1.1.18, when the mp4 directive is used, allows remote attackers to cause a denial of service (memory overwrite) or possibly execute arbitrary code via a crafted MP4 file.
- 135. | [CVE-2012-1180] Use-after-free vulnerability in nginx before 1.0.14 and 1.1.x before 1.1.17 allows remote HTTP servers to obtain sensitive information from process memory via a crafted backend response, in conjunction with a client request.
- 136. | [CVE-2011-4963] nginx/Windows 1.3.x before 1.3.1 and 1.2.x before 1.2.1 allows remote attackers to bypass intended access restrictions and access restricted files via (1) a trailing . (dot) or (2) certain "\$index_allocation" sequences in a request.
- 137. | [CVE-2011-4315] Heap-based buffer overflow in compression-pointer processing in core/ngx_resolver.c in nginx before 1.0.10 allows remote resolvers to cause a denial of service (daemon crash) or possibly have unspecified other impact via a long response.
- 138. | [CVE-2010-2266] nginx 0.8.36 allows remote attackers to cause a denial of service (crash) via certain encoded directory traversal sequences that trigger memory corruption, as demonstrated using the "%c0.%c0." sequence.
- 139. | [CVE-2010-2263] nginx 0.8 before 0.8.40 and 0.7 before 0.7.66, when running on Windows, allows remote attackers to obtain source code or unparsed content of arbitrary files under the web document root by appending::\$DATA to the URI.
- 140. | [CVE-2009-4487] nginx 0.7.64 writes data to a log file without sanitizing non-printable characters, which might allow remote attackers to modify a window's title, or possibly execute arbitrary commands or overwrite files, via an HTTP request containing an escape sequence for a terminal emulator.
- 141. | [CVE-2009-3898] Directory traversal vulnerability in src/http/modules/ngx_http_dav_module.c in nginx (aka Engine X) before 0.7.63, and 0.8.x before 0.8.17, allows remote authenticated users to create or overwrite arbitrary files via a .. (dot dot) in the Destination HTTP header for the WebDAV (1) COPY or (2) MOVE method.
- 142. | [CVE-2009-3896] src/http/ngx_http_parse.c in nginx (aka Engine X) 0.1.0 through 0.4.14, 0.5.x before 0.5.38, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.14 allows remote attackers to cause a denial of service (NULL pointer dereference and worker process crash) via a long URI.
- 143. | [CVE-2009-2629] Buffer underflow in src/http/ngx_http_parse.c in nginx 0.1.0 through 0.5.37, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.15 allows remote attackers to execute arbitrary code via crafted HTTP requests.
- 144. |
- 145. | SecurityFocus - <https://www.securityfocus.com/bid/>:

146. | [99534] Nginx CVE-2017-7529 Remote Integer Overflow Vulnerability
147. | [93903] Nginx CVE-2016-1247 Remote Privilege Escalation Vulnerability
148. | [91819] Nginx CVE-2016-1000105 Security Bypass Vulnerability
149. | [90967] nginx CVE-2016-4450 Denial of Service Vulnerability
150. | [82230] nginx Multiple Denial of Service Vulnerabilities
151. | [78928] Nginx CVE-2010-2266 Denial-Of-Service Vulnerability
152. | [70025] nginx CVE-2014-3616 SSL Session Fixation Vulnerability
153. | [69111] nginx SMTP Proxy Remote Command Injection Vulnerability
154. | [67507] nginx SPDY Implementation CVE-2014-0088 Arbitrary Code Execution Vulnerability
155. | [66537] nginx SPDY Implementation Heap Based Buffer Overflow Vulnerability
156. | [63814] nginx CVE-2013-4547 URI Processing Security Bypass Vulnerability
157. | [59824] Nginx CVE-2013-2070 Remote Security Vulnerability
158. | [59699] nginx 'ngx_http_parse.c' Stack Buffer Overflow Vulnerability
159. | [59496] nginx 'ngx_http_close_connection()' Remote Integer Overflow Vulnerability
160. | [59323] nginx NULL-Byte Arbitrary Code Execution Vulnerability
161. | [58105] Nginx 'access.log' Insecure File Permissions Vulnerability
162. | [57139] nginx CVE-2011-4968 Man in The Middle Vulnerability
163. | [55920] nginx CVE-2011-4963 Security Bypass Vulnerability
164. | [54331] Nginx Naxsi Module 'nx_extract.py' Script Remote File Disclosure Vulnerability
165. | [52999] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability
166. | [52578] nginx 'ngx_cpystirn()' Information Disclosure Vulnerability
167. | [50710] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability
168. | [40760] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities
169. | [40434] nginx Space String Remote Source Code Disclosure Vulnerability
170. | [40420] nginx Directory Traversal Vulnerability
171. | [37711] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability
172. | [36839] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability
173. | [36490] nginx WebDAV Multiple Directory Traversal Vulnerabilities
174. | [36438] nginx Proxy DNS Cache Domain Spoofing Vulnerability
175. | [36384] nginx HTTP Request Remote Buffer Overflow Vulnerability
176. |
177. | IBM X-Force - <https://exchange.xforce.ibmcloud.com>:
178. | [84623] Phusion Passenger gem for Ruby with nginx configuration insecure permissions
179. | [84172] nginx denial of service
180. | [84048] nginx buffer overflow
181. | [83923] nginx ngx_http_close_connection() integer overflow

182. | [83688] nginx null byte code execution

183. | [83103] Naxsi module for Nginx naxsi_unescape_uri() function security bypass

184. | [82319] nginx access.log information disclosure

185. | [80952] nginx SSL spoofing

186. | [77244] nginx and Microsoft Windows request security bypass

187. | [76778] Naxsi module for Nginx nx_extract.py directory traversal

188. | [74831] nginx ngx_http_mp4_module.c buffer overflow

189. | [74191] nginx ngx_cpystn() information disclosure

190. | [74045] nginx header response information disclosure

191. | [71355] nginx ngx_resolver_copy() buffer overflow

192. | [59370] nginx characters denial of service

193. | [59369] nginx DATA source code disclosure

194. | [59047] nginx space source code disclosure

195. | [58966] nginx unspecified directory traversal

196. | [54025] nginx ngx_http_parse.c denial of service

197. | [53431] nginx WebDAV component directory traversal

198. | [53328] Nginx CRC-32 cached domain name spoofing

199. | [53250] Nginx ngx_http_parse_complex_uri() function code execution

200. |

201. | Exploit-DB - <https://www.exploit-db.com>:

202. | [26737] nginx 1.3.9/1.4.0 x86 Brute Force Remote Exploit

203. | [25775] Nginx HTTP Server 1.3.9-1.4.0 Chunked Encoding Stack Buffer Overflow

204. | [25499] nginx 1.3.9-1.4.0 DoS PoC

205. | [24967] nginx 0.6.x Arbitrary Code Execution NullByte Injection

206. | [14830] nginx 0.6.38 - Heap Corruption Exploit

207. | [13822] Nginx <= 0.7.65 / 0.8.39 (dev) Source Disclosure / Download Vulnerability

208. | [13818] Nginx 0.8.36 Source Disclosure and DoS Vulnerabilities

209. | [12804] nginx [engine x] http server <= 0.6.36 Path Draversal

210. | [9901] nginx 0.7.0-0.7.61, 0.6.0-0.6.38, 0.5.0-0.5.37, 0.4.0-0.4.14 PoC

211. | [9829] nginx 0.7.61 WebDAV directory traversal

212. |

213. | OpenVAS (Nessus) - <http://www.openvas.org>:

214. | [864418] Fedora Update for nginx FEDORA-2012-3846

215. | [864310] Fedora Update for nginx FEDORA-2012-6238

216. | [864209] Fedora Update for nginx FEDORA-2012-6411

217. | [864204] Fedora Update for nginx FEDORA-2012-6371

218. | [864121] Fedora Update for nginx FEDORA-2012-4006

219. | [864115] Fedora Update for nginx FEDORA-2012-3991

220. | [864065] Fedora Update for nginx FEDORA-2011-16075

221. | [863654] Fedora Update for nginx FEDORA-2011-16110

222. | [861232] Fedora Update for nginx FEDORA-2007-1158

223. | [850180] SuSE Update for nginx openSUSE-SU-2012:0237-1 (nginx)

224. | [831680] Mandriva Update for nginx MDVSA-2012:043 (nginx)

225. | [802045] 64-bit Debian Linux Rootkit with nginx Doing iFrame Injection

226. | [801636] nginx HTTP Request Remote Buffer Overflow Vulnerability

- 227. | [103470] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability
- 228. | [103469] nginx 'ngx_cpysrtn()' Information Disclosure Vulnerability
- 229. | [103344] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability
- 230. | [100676] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities
- 231. | [100659] nginx Directory Traversal Vulnerability
- 232. | [100658] nginx Space String Remote Source Code Disclosure Vulnerability
- 233. | [100441] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability
- 234. | [100321] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability
- 235. | [100277] nginx Proxy DNS Cache Domain Spoofing Vulnerability
- 236. | [100276] nginx HTTP Request Remote Buffer Overflow Vulnerability
- 237. | [100275] nginx WebDAV Multiple Directory Traversal Vulnerabilities
- 238. | [71574] Gentoo Security Advisory GLSA 201206-07 (nginx)
- 239. | [71308] Gentoo Security Advisory GLSA 201203-22 (nginx)
- 240. | [71297] FreeBSD Ports: nginx
- 241. | [71276] FreeBSD Ports: nginx
- 242. | [71239] Debian Security Advisory DSA 2434-1 (nginx)
- 243. | [66451] Fedora Core 11 FEDORA-2009-12782 (nginx)
- 244. | [66450] Fedora Core 10 FEDORA-2009-12775 (nginx)
- 245. | [66449] Fedora Core 12 FEDORA-2009-12750 (nginx)
- 246. | [64924] Gentoo Security Advisory GLSA 200909-18 (nginx)
- 247. | [64912] Fedora Core 10 FEDORA-2009-9652 (nginx)
- 248. | [64911] Fedora Core 11 FEDORA-2009-9630 (nginx)
- 249. | [64894] FreeBSD Ports: nginx
- 250. | [64869] Debian Security Advisory DSA 1884-1 (nginx)
- 251. |
- 252. | SecurityTracker - <https://www.securitytracker.com>:
- 253. | [1028544] nginx Bug Lets Remote Users Deny Service or Obtain Potentially Sensitive Information
- 254. | [1028519] nginx Stack Overflow Lets Remote Users Execute Arbitrary Code
- 255. | [1026924] nginx Buffer Overflow in ngx_http_mp4_module Lets Remote Users Execute Arbitrary Code
- 256. | [1026827] nginx HTTP Response Processing Lets Remote Users Obtain Portions of Memory Contents
- 257. |
- 258. | OSVDB - <http://www.osvdb.org>:
- 259. | [94864] cPnginx Plugin for cPanel nginx Configuration Manipulation Arbitrary File Access
- 260. | [93282] nginx proxy_pass Crafted Upstream Proxied Server Response Handling Worker Process Memory Disclosure
- 261. | [93037] nginx /http/ngx_http_parse.c Worker Process Crafted Request Handling Remote Overflow
- 262. | [92796] nginx ngx_http_close_connection Function Crafted r->
- 263. | [92634] nginx ngx_http_request.h zero_in_uri URL Null Byte Handling Remote Code Execution

- 264. | [90518] nginx Log Directory Permission Weakness Local Information Disclosure
- 265. | [88910] nginx Proxy Functionality SSL Certificate Validation MitM Spoofing Weakness
- 266. | [84339] nginx/Windows Multiple Request Sequence Parsing Arbitrary File Access
- 267. | [83617] Naxsi Module for Nginx naxsi-ui/ nx_extract.py Traversal Arbitrary File Access
- 268. | [81339] nginx ngx_http_mp4_module Module Atom MP4 File Handling Remote Overflow
- 269. | [80124] nginx HTTP Header Response Parsing Freed Memory Information Disclosure
- 270. | [77184] nginx ngx_resolver.c ngx_resolver_copy() Function DNS Response Parsing Remote Overflow
- 271. | [65531] nginx on Windows URI::\$DATA Append Arbitrary File Access
- 272. | [65530] nginx Encoded Traversal Sequence Memory Corruption Remote DoS
- 273. | [65294] nginx on Windows Encoded Space Request Remote Source Disclosure
- 274. | [63136] nginx on Windows 8.3 Filename Alias Request Access Rules / Authentication Bypass
- 275. | [62617] nginx Internal DNS Cache Poisoning Weakness
- 276. | [61779] nginx HTTP Request Escape Sequence Terminal Command Injection
- 277. | [59278] nginx src/http/ngx_http_parse.c ngx_http_process_request_headers() Function URL Handling NULL Dereference DoS
- 278. | [58328] nginx WebDAV Multiple Method Traversal Arbitrary File Write
- 279. | [58128] nginx ngx_http_parse_complex_uri() Function Underflow
- 280. | [44447] nginx (engine x) msie_refresh Directive Unspecified XSS
- 281. | [44446] nginx (engine x) ssl_verify_client Directive HTTP/0.9 Protocol Bypass
- 282. | [44445] nginx (engine x) ngx_http_realip_module satisfy_any Directive Unspecified Access Bypass
- 283. | [44444] nginx (engine x) X-Accel-Redirect Header Unspecified Traversal
- 284. | [44443] nginx (engine x) rtsig Method Signal Queue Overflow
- 285. | [44442] nginx (engine x) Worker Process Millisecond Timers Unspecified Overflow
- 286. | _
- 287. 443/tcp open ssl/http nginx
- 288. | vulscan: VulDB - <https://vuldb.com>:
- 289. | [176405] Nginx up to 1.13.5 Autoindex Module integer overflow
- 290. | [176114] Nginx Controller up to 3.6.x Agent Configuration File agent.conf permission
- 291. | [176113] Nginx Controller up to 3.9.x NAAS API Key Generation random values
- 292. | [176112] Nginx Controller up to 2.8.x/3.14.x systemd.txt insertion of sensitive information into sent data

- 293. | [176111] Nginx Controller up to 3.3.x Intra-Cluster Communication cleartext transmission
- 294. | [176110] Nginx Open Source/Plus/Ingress Controller Resolver off-by-one
- 295. | [171030] ExpressVPN Router 1 Nginx Webserver integer overflow
- 296. | [160163] Cloud Foundry Routing Nginx denial of service
- 297. | [159138] Kubernetes up to 0.27.x ingress-nginx privilege escalation
- 298. | [157631] Nginx Controller up to 1.0.1/2.8.x/3.4.x Kubernetes Package Download HTTP weak encryption
- 299. | [157630] Nginx Controller up to 1.0.1/2.8.x/3.4.x NATS Messaging System weak authentication
- 300. | [157629] Nginx Controller up to 1.0.1/2.8.x/3.4.x User Interface weak authentication
- 301. | [157572] Nginx Controller up to 3.4.0 API Endpoint Reflected cross site scripting
- 302. | [157571] Nginx Controller up to 1.0.1/2.9.0/3.4.0 User Interface cross site request forgery
- 303. | [155282] nginx up to 1.18.0 privilege escalation
- 304. | [154857] Nginx Controller up to 3.3.0 Web Server Logout weak authentication
- 305. | [154326] Nginx Controller up to 3.2.x Agent Installer Script install.sh privilege escalation
- 306. | [154324] Nginx Controller up to 3.2.x Postgres Database Server information disclosure
- 307. | [154323] Nginx Controller up to 3.1.x TLS weak authentication
- 308. | [152728] strong-nginx-controller up to 1.0.2 _nginxCmd privilege escalation
- 309. | [152416] Nginx Controller up to 3.1.x Controller API privilege escalation
- 310. | [148519] nginx up to 1.17.6 Error Page privilege escalation
- 311. | [145942] nginx 0.8.40 HTTP Proxy Module privilege escalation
- 312. | [144114] Xiaomi Mi WiFi R3G up to 2.28.22 Nginx Alias account directory traversal
- 313. | [133852] Sangfor Sundray WLAN Controller up to 3.7.4.2 Cookie Header nginx_webconsole.php privilege escalation
- 314. | [132132] SoftNAS Cloud 4.2.0/4.2.1 Nginx privilege escalation
- 315. | [131858] Puppet Discovery up to 1.3.x Nginx Container weak authentication
- 316. | [130644] Nginx Unit up to 1.7.0 Router Process memory corruption
- 317. | [127759] VeryNginx 0.3.3 Web Application Firewall 7PK Security Features
- 318. | [126525] nginx up to 1.14.0/1.15.5 ngx_http_mp4_module information disclosure
- 319. | [126524] nginx up to 1.14.0/1.15.5 HTTP2 denial of service
- 320. | [126523] nginx up to 1.14.0/1.15.5 HTTP2 denial of service
- 321. | [103517] nginx up to 1.13.2 Range Filter memory corruption
- 322. | [89849] nginx RFC 3875 Namespace Conflict privilege escalation
- 323. | [87719] nginx up to 1.11.0 ngx_files.c ngx_chain_to_iovec denial of service
- 324. | [80760] nginx 0.6.18/1.9.9 DNS CNAME Record denial of service
- 325. | [80759] nginx 0.6.18/1.9.9 DNS CNAME Record memory corruption

- 326. | [80758] nginx 0.6.18/1.9.9 DNS UDP Packet denial of service
- 327. | [65364] nginx up to 1.1.13 Default Configuration privilege escalation
- 328. | [61434] nginx 1.2.0/1.3.0 on Windows Access Restriction privilege escalation
- 329. | [59645] nginx up to 0.8.9 memory corruption
- 330. | [53592] nginx 0.8.36 privilege escalation
- 331. | [53590] nginx up to 0.8.9 information disclosure
- 332. | [51533] nginx 0.7.64 Terminal privilege escalation
- 333. | [50905] nginx up to 0.8.9 directory traversal
- 334. | [50903] nginx up to 0.8.10 memory corruption
- 335. | [50043] nginx up to 0.8.10 memory corruption
- 336. | [67677] nginx up to 1.7.3 SSL privilege escalation
- 337. | [67296] nginx up to 1.7.3 SMTP Proxy ngx_mail_smtp_starttls privilege escalation
- 338. | [12824] nginx 1.5.10 on 32-bit SPDY memory corruption
- 339. | [12822] nginx up to 1.5.11 SPDY memory corruption
- 340. | [11237] nginx up to 1.5.6 URI String privilege escalation
- 341. | [8671] nginx up to 1.4 proxy_pass privilege escalation
- 342. | [8618] nginx 1.3.9/1.4.0 http/ngx_http_parse.c ngx_http_parse_chunked Numeric Error
- 343. | [7247] nginx 1.2.6 Proxy Function weak authentication
- 344. | [5293] nginx up to 1.1.18 ngx_http_mp4_module memory corruption
- 345. | [4843] nginx up to 1.0.13/1.1.16 HTTP Header Response Parser ngx_http_parse.c denial of service
- 346. |
- 347. | MITRE CVE - <https://cve.mitre.org>:
- 348. | [CVE-2013-2070] http/modules/ngx_http_proxy_module.c in nginx 1.1.4 through 1.2.8 and 1.3.0 through 1.4.0, when proxy_pass is used with untrusted HTTP servers, allows remote attackers to cause a denial of service (crash) and obtain sensitive information from worker process memory via a crafted proxy response, a similar vulnerability to CVE-2013-2028.
- 349. | [CVE-2013-2028] The ngx_http_parse_chunked function in http/ngx_http_parse.c in nginx 1.3.9 through 1.4.0 allows remote attackers to cause a denial of service (crash) and execute arbitrary code via a chunked Transfer-Encoding request with a large chunk size, which triggers an integer signedness error and a stack-based buffer overflow.
- 350. | [CVE-2012-3380] Directory traversal vulnerability in naxsi-ui/nx_extract.py in the Naxsi module before 0.46-1 for Nginx allows local users to read arbitrary files via unspecified vectors.
- 351. | [CVE-2012-2089] Buffer overflow in ngx_http_mp4_module.c in the ngx_http_mp4_module module in nginx 1.0.7 through 1.0.14 and 1.1.3 through 1.1.18, when the mp4 directive is used, allows remote attackers to cause a denial of service (memory overwrite) or possibly execute arbitrary code via a crafted MP4 file.
- 352. | [CVE-2012-1180] Use-after-free vulnerability in nginx before 1.0.14 and 1.1.x before 1.1.17 allows remote HTTP servers to obtain sensitive information from process memory via a crafted backend response, in conjunction with a client request.
- 353. | [CVE-2011-4963] nginx/Windows 1.3.x before 1.3.1 and 1.2.x before 1.2.1 allows remote attackers to bypass intended access restrictions and

access restricted files via (1) a trailing . (dot) or (2) certain "\$index_allocation" sequences in a request.

- 354. | [CVE-2011-4315] Heap-based buffer overflow in compression-pointer processing in core/nginx_resolver.c in nginx before 1.0.10 allows remote resolvers to cause a denial of service (daemon crash) or possibly have unspecified other impact via a long response.
- 355. | [CVE-2010-2266] nginx 0.8.36 allows remote attackers to cause a denial of service (crash) via certain encoded directory traversal sequences that trigger memory corruption, as demonstrated using the "%c0.%c0." sequence.
- 356. | [CVE-2010-2263] nginx 0.8 before 0.8.40 and 0.7 before 0.7.66, when running on Windows, allows remote attackers to obtain source code or unparsed content of arbitrary files under the web document root by appending::\$DATA to the URI.
- 357. | [CVE-2009-4487] nginx 0.7.64 writes data to a log file without sanitizing non-printable characters, which might allow remote attackers to modify a window's title, or possibly execute arbitrary commands or overwrite files, via an HTTP request containing an escape sequence for a terminal emulator.
- 358. | [CVE-2009-3898] Directory traversal vulnerability in src/http/modules/nginx_http_dav_module.c in nginx (aka Engine X) before 0.7.63, and 0.8.x before 0.8.17, allows remote authenticated users to create or overwrite arbitrary files via a .. (dot dot) in the Destination HTTP header for the WebDAV (1) COPY or (2) MOVE method.
- 359. | [CVE-2009-3896] src/http/nginx_http_parse.c in nginx (aka Engine X) 0.1.0 through 0.4.14, 0.5.x before 0.5.38, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.14 allows remote attackers to cause a denial of service (NULL pointer dereference and worker process crash) via a long URI.
- 360. | [CVE-2009-2629] Buffer underflow in src/http/nginx_http_parse.c in nginx 0.1.0 through 0.5.37, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.15 allows remote attackers to execute arbitrary code via crafted HTTP requests.
- 361. |
- 362. | SecurityFocus - <https://www.securityfocus.com/bid/>:
- 363. | [99534] Nginx CVE-2017-7529 Remote Integer Overflow Vulnerability
- 364. | [93903] Nginx CVE-2016-1247 Remote Privilege Escalation Vulnerability
- 365. | [91819] Nginx CVE-2016-1000105 Security Bypass Vulnerability
- 366. | [90967] nginx CVE-2016-4450 Denial of Service Vulnerability
- 367. | [82230] nginx Multiple Denial of Service Vulnerabilities
- 368. | [78928] Nginx CVE-2010-2266 Denial-Of-Service Vulnerability
- 369. | [70025] nginx CVE-2014-3616 SSL Session Fixation Vulnerability
- 370. | [69111] nginx SMTP Proxy Remote Command Injection Vulnerability
- 371. | [67507] nginx SPDY Implementation CVE-2014-0088 Arbitrary Code Execution Vulnerability
- 372. | [66537] nginx SPDY Implementation Heap Based Buffer Overflow Vulnerability
- 373. | [63814] nginx CVE-2013-4547 URI Processing Security Bypass Vulnerability
- 374. | [59824] Nginx CVE-2013-2070 Remote Security Vulnerability

- 375. | [59699] nginx 'ngx_http_parse.c' Stack Buffer Overflow Vulnerability
- 376. | [59496] nginx 'ngx_http_close_connection()' Remote Integer Overflow Vulnerability
- 377. | [59323] nginx NULL-Byte Arbitrary Code Execution Vulnerability
- 378. | [58105] Nginx 'access.log' Insecure File Permissions Vulnerability
- 379. | [57139] nginx CVE-2011-4968 Man in The Middle Vulnerability
- 380. | [55920] nginx CVE-2011-4963 Security Bypass Vulnerability
- 381. | [54331] Nginx Naxsi Module 'nx_extract.py' Script Remote File Disclosure Vulnerability
- 382. | [52999] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability
- 383. | [52578] nginx 'ngx_cpystn()' Information Disclosure Vulnerability
- 384. | [50710] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability
- 385. | [40760] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities
- 386. | [40434] nginx Space String Remote Source Code Disclosure Vulnerability
- 387. | [40420] nginx Directory Traversal Vulnerability
- 388. | [37711] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability
- 389. | [36839] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability
- 390. | [36490] nginx WebDAV Multiple Directory Traversal Vulnerabilities
- 391. | [36438] nginx Proxy DNS Cache Domain Spoofing Vulnerability
- 392. | [36384] nginx HTTP Request Remote Buffer Overflow Vulnerability
- 393. |
- 394. | IBM X-Force - <https://exchange.xforce.ibmcloud.com>:
- 395. | [84623] Phusion Passenger gem for Ruby with nginx configuration insecure permissions
- 396. | [84172] nginx denial of service
- 397. | [84048] nginx buffer overflow
- 398. | [83923] nginx ngx_http_close_connection() integer overflow
- 399. | [83688] nginx null byte code execution
- 400. | [83103] Naxsi module for Nginx naxsi_unescape_uri() function security bypass
- 401. | [82319] nginx access.log information disclosure
- 402. | [80952] nginx SSL spoofing
- 403. | [77244] nginx and Microsoft Windows request security bypass
- 404. | [76778] Naxsi module for Nginx nx_extract.py directory traversal
- 405. | [74831] nginx ngx_http_mp4_module.c buffer overflow
- 406. | [74191] nginx ngx_cpystn() information disclosure
- 407. | [74045] nginx header response information disclosure
- 408. | [71355] nginx ngx_resolver_copy() buffer overflow
- 409. | [59370] nginx characters denial of service
- 410. | [59369] nginx DATA source code disclosure
- 411. | [59047] nginx space source code disclosure
- 412. | [58966] nginx unspecified directory traversal
- 413. | [54025] nginx ngx_http_parse.c denial of service
- 414. | [53431] nginx WebDAV component directory traversal

415. | [53328] Nginx CRC-32 cached domain name spoofing

416. | [53250] Nginx ngx_http_parse_complex_uri() function code execution

417. |

418. | Exploit-DB - <https://www.exploit-db.com>:

419. | [26737] nginx 1.3.9/1.4.0 x86 Brute Force Remote Exploit

420. | [25775] Nginx HTTP Server 1.3.9-1.4.0 Chunked Encoding Stack Buffer Overflow

421. | [25499] nginx 1.3.9-1.4.0 DoS PoC

422. | [24967] nginx 0.6.x Arbitrary Code Execution NullByte Injection

423. | [14830] nginx 0.6.38 - Heap Corruption Exploit

424. | [13822] Nginx <= 0.7.65 / 0.8.39 (dev) Source Disclosure / Download Vulnerability

425. | [13818] Nginx 0.8.36 Source Disclosure and DoS Vulnerabilities

426. | [12804] nginx [engine x] http server <= 0.6.36 Path Draversal

427. | [9901] nginx 0.7.0-0.7.61, 0.6.0-0.6.38, 0.5.0-0.5.37, 0.4.0-0.4.14 PoC

428. | [9829] nginx 0.7.61 WebDAV directory traversal

429. |

430. | OpenVAS (Nessus) - <http://www.openvas.org>:

431. | [864418] Fedora Update for nginx FEDORA-2012-3846

432. | [864310] Fedora Update for nginx FEDORA-2012-6238

433. | [864209] Fedora Update for nginx FEDORA-2012-6411

434. | [864204] Fedora Update for nginx FEDORA-2012-6371

435. | [864121] Fedora Update for nginx FEDORA-2012-4006

436. | [864115] Fedora Update for nginx FEDORA-2012-3991

437. | [864065] Fedora Update for nginx FEDORA-2011-16075

438. | [863654] Fedora Update for nginx FEDORA-2011-16110

439. | [861232] Fedora Update for nginx FEDORA-2007-1158

440. | [850180] SuSE Update for nginx openSUSE-SU-2012:0237-1 (nginx)

441. | [831680] Mandriva Update for nginx MDVSA-2012:043 (nginx)

442. | [802045] 64-bit Debian Linux Rootkit with nginx Doing iFrame Injection

443. | [801636] nginx HTTP Request Remote Buffer Overflow Vulnerability

444. | [103470] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability

445. | [103469] nginx 'ngx_cpystn()' Information Disclosure Vulnerability

446. | [103344] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability

447. | [100676] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities

448. | [100659] nginx Directory Traversal Vulnerability

449. | [100658] nginx Space String Remote Source Code Disclosure Vulnerability

450. | [100441] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability

451. | [100321] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability

452. | [100277] nginx Proxy DNS Cache Domain Spoofing Vulnerability

453. | [100276] nginx HTTP Request Remote Buffer Overflow Vulnerability

454. | [100275] nginx WebDAV Multiple Directory Traversal Vulnerabilities

455. | [71574] Gentoo Security Advisory GLSA 201206-07 (nginx)
 456. | [71308] Gentoo Security Advisory GLSA 201203-22 (nginx)
 457. | [71297] FreeBSD Ports: nginx
 458. | [71276] FreeBSD Ports: nginx
 459. | [71239] Debian Security Advisory DSA 2434-1 (nginx)
 460. | [66451] Fedora Core 11 FEDORA-2009-12782 (nginx)
 461. | [66450] Fedora Core 10 FEDORA-2009-12775 (nginx)
 462. | [66449] Fedora Core 12 FEDORA-2009-12750 (nginx)
 463. | [64924] Gentoo Security Advisory GLSA 200909-18 (nginx)
 464. | [64912] Fedora Core 10 FEDORA-2009-9652 (nginx)
 465. | [64911] Fedora Core 11 FEDORA-2009-9630 (nginx)
 466. | [64894] FreeBSD Ports: nginx
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 469. | SecurityTracker - <https://www.securitytracker.com>:
 470. | [1028544] nginx Bug Lets Remote Users Deny Service or Obtain Potentially Sensitive Information
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 473. | [1026827] nginx HTTP Response Processing Lets Remote Users Obtain Portions of Memory Contents
 474. |
 475. | OSVDB - <http://www.osvdb.org>:
 476. | [94864] cPnginx Plugin for cPanel nginx Configuration Manipulation Arbitrary File Access
 477. | [93282] nginx proxy_pass Crafted Upstream Proxied Server Response Handling Worker Process Memory Disclosure
 478. | [93037] nginx /http/ngx_http_parse.c Worker Process Crafted Request Handling Remote Overflow
 479. | [92796] nginx ngx_http_close_connection Function Crafted r->
 480. | [92634] nginx ngx_http_request.h zero_in_uri URL Null Byte Handling Remote Code Execution
 481. | [90518] nginx Log Directory Permission Weakness Local Information Disclosure
 482. | [88910] nginx Proxy Functionality SSL Certificate Validation MitM Spoofing Weakness
 483. | [84339] nginx/Windows Multiple Request Sequence Parsing Arbitrary File Access
 484. | [83617] Naxsi Module for Nginx naxsi-ui/ nx_extract.py Traversal Arbitrary File Access
 485. | [81339] nginx ngx_http_mp4_module Module Atom MP4 File Handling Remote Overflow
 486. | [80124] nginx HTTP Header Response Parsing Freed Memory Information Disclosure
 487. | [77184] nginx ngx_resolver.c ngx_resolver_copy() Function DNS Response Parsing Remote Overflow
 488. | [65531] nginx on Windows URI ::\$DATA Append Arbitrary File Access

- 489. | [65530] nginx Encoded Traversal Sequence Memory Corruption Remote DoS
- 490. | [65294] nginx on Windows Encoded Space Request Remote Source Disclosure
- 491. | [63136] nginx on Windows 8.3 Filename Alias Request Access Rules / Authentication Bypass
- 492. | [62617] nginx Internal DNS Cache Poisoning Weakness
- 493. | [61779] nginx HTTP Request Escape Sequence Terminal Command Injection
- 494. | [59278] nginx src/http/nginx_http_parse.c ngx_http_process_request_headers() Function URL Handling NULL Dereference DoS
- 495. | [58328] nginx WebDAV Multiple Method Traversal Arbitrary File Write
- 496. | [58128] nginx ngx_http_parse_complex_uri() Function Underflow
- 497. | [44447] nginx (engine x) msie_refresh Directive Unspecified XSS
- 498. | [44446] nginx (engine x) ssl_verify_client Directive HTTP/0.9 Protocol Bypass
- 499. | [44445] nginx (engine x) ngx_http_realip_module satisfy_any Directive Unspecified Access Bypass
- 500. | [44444] nginx (engine x) X-Accel-Redirect Header Unspecified Traversal
- 501. | [44443] nginx (engine x) rtsig Method Signal Queue Overflow
- 502. | [44442] nginx (engine x) Worker Process Millisecond Timers Unspecified Overflow

Resultados OWASP (ZAP) hacia la dirección local del firewall 192.168.56.1

- 503. **Cookie without SameSite Attribute:** se recomienda que para cookies el SameSite sea "lax" o (mejor aún) "strict". El impacto es bastante bajo.

Resultados Apache Benchmarking

1. Benchmarking 192.168.56.1 (be patient)
apr_socket_recv: **Connection reset by peer (104) // Más seguro**
Total of 1 requests completed

pfSense2 (#R2):

Búsqueda manual:

2. **53/tcp open domain Unbound** -> Potencial vulnerabilidad de dejar un puerto innecesario abierto, con todo lo que conlleva.
3. **FreeBSD 12.3 se considera obsoleto** -> Potenciales vulnerabilidades que no vayan a ser parcheadas en un futuro.
4. **CVE-2020-26147, CVE-2020-24588, CVE-2020-26144**
5. **CVE-2022-0778:**
6. **CVE-2022-23084, CVE-2022-23085**
7. **CVE-2022-23088:**
8. **CVE-2022-23086**
9. **CVE-2021-29632**
10. Además, hubo una vulnerabilidad posible, y es no haber cambiado las contraseñas de acceso al router de las por defecto (admin, pfsense). **Se corrigió antes de hacer el análisis (nueva contraseña es "junio2020") y por lo tanto no se ha tenido en cuenta en el apartado 5.**

11. También hubo una vulnerabilidad, y es que el conectar al firewall para configurarlo no se hacía en conexión segura, por lo que se podría fácilmente interceptar el mensaje y obtener la contraseña y clave no cifradas. Por lo tanto, pasamos a SSL/TLS y generamos un certificado a de otra CA propia generada y difundida por nosotros y que los navegadores de esa red la importaran para confiar en dicha autoridad de certificación, y en el nuevo certificado de servidor para conexión firmado por ésta. **Se corrigió antes de hacer el análisis y por lo tanto no se ha tenido en cuenta en el apartado 5.**

Resultados vulscan:

- PORT STATE SERVICE VERSION
- 12. 80/tcp open http nginx
 - 13. | vulscan: VulDB - <https://vuldb.com>:
 - 14. | [176405] Nginx up to 1.13.5 Autoindex Module integer overflow
 - 15. | [176114] Nginx Controller up to 3.6.x Agent Configuration File agent.conf permission
 - 16. | [176113] Nginx Controller up to 3.9.x NAAS API Key Generation random values
 - 17. | [176112] Nginx Controller up to 2.8.x/3.14.x systemd.txt insertion of sensitive information into sent data
 - 18. | [176111] Nginx Controller up to 3.3.x Intra-Cluster Communication cleartext transmission
 - 19. | [176110] Nginx Open Source/Plus/Ingress Controller Resolver off-by-one
 - 20. | [171030] ExpressVPN Router 1 Nginx Webserver integer overflow
 - 21. | [160163] Cloud Foundry Routing Nginx denial of service
 - 22. | [159138] Kubernetes up to 0.27.x ingress-nginx privilege escalation
 - 23. | [157631] Nginx Controller up to 1.0.1/2.8.x/3.4.x Kubernetes Package Download HTTP weak encryption
 - 24. | [157630] Nginx Controller up to 1.0.1/2.8.x/3.4.x NATS Messaging System weak authentication
 - 25. | [157629] Nginx Controller up to 1.0.1/2.8.x/3.4.x User Interface weak authentication
 - 26. | [157572] Nginx Controller up to 3.4.0 API Endpoint Reflected cross site scripting
 - 27. | [157571] Nginx Controller up to 1.0.1/2.9.0/3.4.0 User Interface cross site request forgery
 - 28. | [155282] nginx up to 1.18.0 privilege escalation
 - 29. | [154857] Nginx Controller up to 3.3.0 Web Server Logout weak authentication
 - 30. | [154326] Nginx Controller up to 3.2.x Agent Installer Script install.sh privilege escalation
 - 31. | [154324] Nginx Controller up to 3.2.x Postgres Database Server information disclosure
 - 32. | [154323] Nginx Controller up to 3.1.x TLS weak authentication
 - 33. | [152728] strong-nginx-controller up to 1.0.2 _nginxCmd privilege escalation
 - 34. | [152416] Nginx Controller up to 3.1.x Controller API privilege escalation
 - 35. | [148519] nginx up to 1.17.6 Error Page privilege escalation
 - 36. | [145942] nginx 0.8.40 HTTP Proxy Module privilege escalation
 - 37. | [144114] Xiaomi Mi WiFi R3G up to 2.28.22 Nginx Alias account directory traversal
 - 38. | [133852] Sangfor Sundray WLAN Controller up to 3.7.4.2 Cookie Header nginx_webconsole.php privilege escalation
 - 39. | [132132] SoftNAS Cloud 4.2.0/4.2.1 Nginx privilege escalation
 - 40. | [131858] Puppet Discovery up to 1.3.x Nginx Container weak authentication
 - 41. | [130644] Nginx Unit up to 1.7.0 Router Process memory corruption

42. | [127759] VeryNginx 0.3.3 Web Application Firewall 7PK Security Features
43. | [126525] nginx up to 1.14.0/1.15.5 ngx_http_mp4_module information disclosure
44. | [126524] nginx up to 1.14.0/1.15.5 HTTP2 denial of service
45. | [126523] nginx up to 1.14.0/1.15.5 HTTP2 denial of service
46. | [103517] nginx up to 1.13.2 Range Filter memory corruption
47. | [89849] nginx RFC 3875 Namespace Conflict privilege escalation
48. | [87719] nginx up to 1.11.0 ngx_files.c ngx_chain_to_iovec denial of service
49. | [80760] nginx 0.6.18/1.9.9 DNS CNAME Record denial of service
50. | [80759] nginx 0.6.18/1.9.9 DNS CNAME Record memory corruption
51. | [80758] nginx 0.6.18/1.9.9 DNS UDP Packet denial of service
52. | [65364] nginx up to 1.1.13 Default Configuration privilege escalation
53. | [61434] nginx 1.2.0/1.3.0 on Windows Access Restriction privilege escalation
54. | [59645] nginx up to 0.8.9 memory corruption
55. | [53592] nginx 0.8.36 privilege escalation
56. | [53590] nginx up to 0.8.9 information disclosure
57. | [51533] nginx 0.7.64 Terminal privilege escalation
58. | [50905] nginx up to 0.8.9 directory traversal
59. | [50903] nginx up to 0.8.10 memory corruption
60. | [50043] nginx up to 0.8.10 memory corruption
61. | [67677] nginx up to 1.7.3 SSL privilege escalation
62. | [67296] nginx up to 1.7.3 SMTP Proxy ngx_mail_smtp_starttls privilege escalation
63. | [12824] nginx 1.5.10 on 32-bit SPDY memory corruption
64. | [12822] nginx up to 1.5.11 SPDY memory corruption
65. | [11237] nginx up to 1.5.6 URI String privilege escalation
66. | [8671] nginx up to 1.4 proxy_pass privilege escalation
67. | [8618] nginx 1.3.9/1.4.0 http/ngx_http_parse.c ngx_http_parse_chunked Numeric Error
68. | [7247] nginx 1.2.6 Proxy Function weak authentication
69. | [5293] nginx up to 1.1.18 ngx_http_mp4_module memory corruption
70. | [4843] nginx up to 1.0.13/1.1.16 HTTP Header Response Parser ngx_http_parse.c denial of service
71. |
72. | MITRE CVE - <https://cve.mitre.org>:
73. | [CVE-2013-2070] http/modules/ngx_http_proxy_module.c in nginx 1.1.4 through 1.2.8 and 1.3.0 through 1.4.0, when proxy_pass is used with untrusted HTTP servers, allows remote attackers to cause a denial of service (crash) and obtain sensitive information from worker process memory via a crafted proxy response, a similar vulnerability to CVE-2013-2028.
74. | [CVE-2013-2028] The ngx_http_parse_chunked function in http/ngx_http_parse.c in nginx 1.3.9 through 1.4.0 allows remote attackers to cause a denial of service (crash) and execute arbitrary code via a chunked Transfer-Encoding request with a large chunk size, which triggers an integer signedness error and a stack-based buffer overflow.
75. | [CVE-2012-3380] Directory traversal vulnerability in naxsi-ui/nx_extract.py in the Naxsi module before 0.46-1 for Nginx allows local users to read arbitrary files via unspecified vectors.
76. | [CVE-2012-2089] Buffer overflow in ngx_http_mp4_module.c in the ngx_http_mp4_module module in nginx 1.0.7 through 1.0.14 and 1.1.3 through 1.1.18, when the mp4 directive is used, allows remote attackers to cause a denial

of service (memory overwrite) or possibly execute arbitrary code via a crafted MP4 file.

77. | [CVE-2012-1180] Use-after-free vulnerability in nginx before 1.0.14 and 1.1.x before 1.1.17 allows remote HTTP servers to obtain sensitive information from process memory via a crafted backend response, in conjunction with a client request.
78. | [CVE-2011-4963] nginx/Windows 1.3.x before 1.3.1 and 1.2.x before 1.2.1 allows remote attackers to bypass intended access restrictions and access restricted files via (1) a trailing . (dot) or (2) certain "\$index_allocation" sequences in a request.
79. | [CVE-2011-4315] Heap-based buffer overflow in compression-pointer processing in core/nginx_resolver.c in nginx before 1.0.10 allows remote resolvers to cause a denial of service (daemon crash) or possibly have unspecified other impact via a long response.
80. | [CVE-2010-2266] nginx 0.8.36 allows remote attackers to cause a denial of service (crash) via certain encoded directory traversal sequences that trigger memory corruption, as demonstrated using the "%c0.%c0." sequence.
81. | [CVE-2010-2263] nginx 0.8 before 0.8.40 and 0.7 before 0.7.66, when running on Windows, allows remote attackers to obtain source code or unparsed content of arbitrary files under the web document root by appending::\$DATA to the URI.
82. | [CVE-2009-4487] nginx 0.7.64 writes data to a log file without sanitizing non-printable characters, which might allow remote attackers to modify a window's title, or possibly execute arbitrary commands or overwrite files, via an HTTP request containing an escape sequence for a terminal emulator.
83. | [CVE-2009-3898] Directory traversal vulnerability in src/http/modules/nginx_http_dav_module.c in nginx (aka Engine X) before 0.7.63, and 0.8.x before 0.8.17, allows remote authenticated users to create or overwrite arbitrary files via a .. (dot dot) in the Destination HTTP header for the WebDAV (1) COPY or (2) MOVE method.
84. | [CVE-2009-3896] src/http/nginx_http_parse.c in nginx (aka Engine X) 0.1.0 through 0.4.14, 0.5.x before 0.5.38, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.14 allows remote attackers to cause a denial of service (NULL pointer dereference and worker process crash) via a long URI.
85. | [CVE-2009-2629] Buffer underflow in src/http/nginx_http_parse.c in nginx 0.1.0 through 0.5.37, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.15 allows remote attackers to execute arbitrary code via crafted HTTP requests.
86. |
87. | SecurityFocus - <https://www.securityfocus.com/bid/>:
88. | [99534] Nginx CVE-2017-7529 Remote Integer Overflow Vulnerability
89. | [93903] Nginx CVE-2016-1247 Remote Privilege Escalation Vulnerability
90. | [91819] Nginx CVE-2016-1000105 Security Bypass Vulnerability
91. | [90967] nginx CVE-2016-4450 Denial of Service Vulnerability
92. | [82230] nginx Multiple Denial of Service Vulnerabilities
93. | [78928] Nginx CVE-2010-2266 Denial-Of-Service Vulnerability
94. | [70025] nginx CVE-2014-3616 SSL Session Fixation Vulnerability
95. | [69111] nginx SMTP Proxy Remote Command Injection Vulnerability
96. | [67507] nginx SPDY Implementation CVE-2014-0088 Arbitrary Code Execution Vulnerability
97. | [66537] nginx SPDY Implementation Heap Based Buffer Overflow Vulnerability
98. | [63814] nginx CVE-2013-4547 URI Processing Security Bypass Vulnerability
99. | [59824] Nginx CVE-2013-2070 Remote Security Vulnerability
100. | [59699] nginx 'ngx_http_parse.c' Stack Buffer Overflow Vulnerability

101. | [59496] nginx 'ngx_http_close_connection()' Remote Integer Overflow Vulnerability
102. | [59323] nginx NULL-Byte Arbitrary Code Execution Vulnerability
103. | [58105] Nginx 'access.log' Insecure File Permissions Vulnerability
104. | [57139] nginx CVE-2011-4968 Man in The Middle Vulnerability
105. | [55920] nginx CVE-2011-4963 Security Bypass Vulnerability
106. | [54331] Nginx Naxsi Module 'nx_extract.py' Script Remote File Disclosure Vulnerability
107. | [52999] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability
108. | [52578] nginx 'ngx_cpystn()' Information Disclosure Vulnerability
109. | [50710] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability
110. | [40760] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities
111. | [40434] nginx Space String Remote Source Code Disclosure Vulnerability
112. | [40420] nginx Directory Traversal Vulnerability
113. | [37711] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability
114. | [36839] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability
115. | [36490] nginx WebDAV Multiple Directory Traversal Vulnerabilities
116. | [36438] nginx Proxy DNS Cache Domain Spoofing Vulnerability
117. | [36384] nginx HTTP Request Remote Buffer Overflow Vulnerability
118. |
119. | IBM X-Force - <https://exchange.xforce.ibmcloud.com:>
120. | [84623] Phusion Passenger gem for Ruby with nginx configuration insecure permissions
121. | [84172] nginx denial of service
122. | [84048] nginx buffer overflow
123. | [83923] nginx ngx_http_close_connection() integer overflow
124. | [83688] nginx null byte code execution
125. | [83103] Naxsi module for Nginx naxsi_unescape_uri() function security bypass
126. | [82319] nginx access.log information disclosure
127. | [80952] nginx SSL spoofing
128. | [77244] nginx and Microsoft Windows request security bypass
129. | [76778] Naxsi module for Nginx nx_extract.py directory traversal
130. | [74831] nginx ngx_http_mp4_module.c buffer overflow
131. | [74191] nginx ngx_cpystn() information disclosure
132. | [74045] nginx header response information disclosure
133. | [71355] nginx ngx_resolver_copy() buffer overflow
134. | [59370] nginx characters denial of service
135. | [59369] nginx DATA source code disclosure
136. | [59047] nginx space source code disclosure
137. | [58966] nginx unspecified directory traversal
138. | [54025] nginx ngx_http_parse.c denial of service
139. | [53431] nginx WebDAV component directory traversal
140. | [53328] Nginx CRC-32 cached domain name spoofing
141. | [53250] Nginx ngx_http_parse_complex_uri() function code execution
142. |
143. | Exploit-DB - <https://www.exploit-db.com:>
144. | [26737] nginx 1.3.9/1.4.0 x86 Brute Force Remote Exploit
145. | [25775] Nginx HTTP Server 1.3.9-1.4.0 Chunked Encoding Stack Buffer Overflow

- 146. | [25499] nginx 1.3.9-1.4.0 DoS PoC
- 147. | [24967] nginx 0.6.x Arbitrary Code Execution NullByte Injection
- 148. | [14830] nginx 0.6.38 - Heap Corruption Exploit
- 149. | [13822] Nginx <= 0.7.65 / 0.8.39 (dev) Source Disclosure / Download Vulnerability
- 150. | [13818] Nginx 0.8.36 Source Disclosure and DoS Vulnerabilities
- 151. | [12804] nginx [engine x] http server <= 0.6.36 Path Draversal
- 152. | [9901] nginx 0.7.0-0.7.61, 0.6.0-0.6.38, 0.5.0-0.5.37, 0.4.0-0.4.14 PoC
- 153. | [9829] nginx 0.7.61 WebDAV directory traversal
- 154. |
- 155. | OpenVAS (Nessus) - <http://www.openvas.org>:
- 156. | [864418] Fedora Update for nginx FEDORA-2012-3846
- 157. | [864310] Fedora Update for nginx FEDORA-2012-6238
- 158. | [864209] Fedora Update for nginx FEDORA-2012-6411
- 159. | [864204] Fedora Update for nginx FEDORA-2012-6371
- 160. | [864121] Fedora Update for nginx FEDORA-2012-4006
- 161. | [864115] Fedora Update for nginx FEDORA-2012-3991
- 162. | [864065] Fedora Update for nginx FEDORA-2011-16075
- 163. | [863654] Fedora Update for nginx FEDORA-2011-16110
- 164. | [861232] Fedora Update for nginx FEDORA-2007-1158
- 165. | [850180] SuSE Update for nginx openSUSE-SU-2012:0237-1 (nginx)
- 166. | [831680] Mandriva Update for nginx MDVSA-2012:043 (nginx)
- 167. | [802045] 64-bit Debian Linux Rootkit with nginx Doing iFrame Injection
- 168. | [801636] nginx HTTP Request Remote Buffer Overflow Vulnerability
- 169. | [103470] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability
- 170. | [103469] nginx 'ngx_cpystn()' Information Disclosure Vulnerability
- 171. | [103344] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability
- 172. | [100676] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities
- 173. | [100659] nginx Directory Traversal Vulnerability
- 174. | [100658] nginx Space String Remote Source Code Disclosure Vulnerability
- 175. | [100441] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability
- 176. | [100321] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability
- 177. | [100277] nginx Proxy DNS Cache Domain Spoofing Vulnerability
- 178. | [100276] nginx HTTP Request Remote Buffer Overflow Vulnerability
- 179. | [100275] nginx WebDAV Multiple Directory Traversal Vulnerabilities
- 180. | [71574] Gentoo Security Advisory GLSA 201206-07 (nginx)
- 181. | [71308] Gentoo Security Advisory GLSA 201203-22 (nginx)
- 182. | [71297] FreeBSD Ports: nginx
- 183. | [71276] FreeBSD Ports: nginx
- 184. | [71239] Debian Security Advisory DSA 2434-1 (nginx)
- 185. | [66451] Fedora Core 11 FEDORA-2009-12782 (nginx)
- 186. | [66450] Fedora Core 10 FEDORA-2009-12775 (nginx)
- 187. | [66449] Fedora Core 12 FEDORA-2009-12750 (nginx)
- 188. | [64924] Gentoo Security Advisory GLSA 200909-18 (nginx)
- 189. | [64912] Fedora Core 10 FEDORA-2009-9652 (nginx)
- 190. | [64911] Fedora Core 11 FEDORA-2009-9630 (nginx)
- 191. | [64894] FreeBSD Ports: nginx
- 192. | [64869] Debian Security Advisory DSA 1884-1 (nginx)

- 193. |
- 194. | SecurityTracker - <https://www.securitytracker.com:>
- 195. | [1028544] nginx Bug Lets Remote Users Deny Service or Obtain Potentially Sensitive Information
- 196. | [1028519] nginx Stack Overflow Lets Remote Users Execute Arbitrary Code
- 197. | [1026924] nginx Buffer Overflow in ngx_http_mp4_module Lets Remote Users Execute Arbitrary Code
- 198. | [1026827] nginx HTTP Response Processing Lets Remote Users Obtain Portions of Memory Contents
- 199. |
- 200. | OSVDB - <http://www.osvdb.org:>
- 201. | [94864] cPnginx Plugin for cPanel nginx Configuration Manipulation Arbitrary File Access
- 202. | [93282] nginx proxy_pass Crafted Upstream Proxied Server Response Handling Worker Process Memory Disclosure
- 203. | [93037] nginx /http/ngx_http_parse.c Worker Process Crafted Request Handling Remote Overflow
- 204. | [92796] nginx ngx_http_close_connection Function Crafted r->
- 205. | [92634] nginx ngx_http_request.h zero_in_uri URL Null Byte Handling Remote Code Execution
- 206. | [90518] nginx Log Directory Permission Weakness Local Information Disclosure
- 207. | [88910] nginx Proxy Functionality SSL Certificate Validation MitM Spoofing Weakness
- 208. | [84339] nginx/Windows Multiple Request Sequence Parsing Arbitrary File Access
- 209. | [83617] Naxsi Module for Nginx naxsi-ui/ nx_extract.py Traversal Arbitrary File Access
- 210. | [81339] nginx ngx_http_mp4_module Module Atom MP4 File Handling Remote Overflow
- 211. | [80124] nginx HTTP Header Response Parsing Freed Memory Information Disclosure
- 212. | [77184] nginx ngx_resolver.c ngx_resolver_copy() Function DNS Response Parsing Remote Overflow
- 213. | [65531] nginx on Windows URI::\$DATA Append Arbitrary File Access
- 214. | [65530] nginx Encoded Traversal Sequence Memory Corruption Remote DoS
- 215. | [65294] nginx on Windows Encoded Space Request Remote Source Disclosure
- 216. | [63136] nginx on Windows 8.3 Filename Alias Request Access Rules / Authentication Bypass
- 217. | [62617] nginx Internal DNS Cache Poisoning Weakness
- 218. | [61779] nginx HTTP Request Escape Sequence Terminal Command Injection
- 219. | [59278] nginx src/http/ngx_http_parse.c ngx_http_process_request_headers() Function URL Handling NULL Dereference DoS
- 220. | [58328] nginx WebDAV Multiple Method Traversal Arbitrary File Write
- 221. | [58128] nginx ngx_http_parse_complex_uri() Function Underflow
- 222. | [44447] nginx (engine x) msie_refresh Directive Unspecified XSS
- 223. | [44446] nginx (engine x) ssl_verify_client Directive HTTP/0.9 Protocol Bypass
- 224. | [44445] nginx (engine x) ngx_http_realip_module satisfy_any Directive Unspecified Access Bypass
- 225. | [44444] nginx (engine x) X-Accel-Redirect Header Unspecified Traversal
- 226. | [44443] nginx (engine x) rtsig Method Signal Queue Overflow

227. | [44442] nginx (engine x) Worker Process Millisecond Timers Unspecified Overflow

228. | _

229. 443/tcp open ssl/http nginx

230. | vulscan: VulDB - <https://vuldb.com>:

231. | [176405] Nginx up to 1.13.5 Autoindex Module integer overflow

232. | [176114] Nginx Controller up to 3.6.x Agent Configuration File agent.conf permission

233. | [176113] Nginx Controller up to 3.9.x NAAS API Key Generation random values

234. | [176112] Nginx Controller up to 2.8.x/3.14.x systemd.txt insertion of sensitive information into sent data

235. | [176111] Nginx Controller up to 3.3.x Intra-Cluster Communication cleartext transmission

236. | [176110] Nginx Open Source/Plus/Ingress Controller Resolver off-by-one

237. | [171030] ExpressVPN Router 1 Nginx Webserver integer overflow

238. | [160163] Cloud Foundry Routing Nginx denial of service

239. | [159138] Kubernetes up to 0.27.x ingress-nginx privilege escalation

240. | [157631] Nginx Controller up to 1.0.1/2.8.x/3.4.x Kubernetes Package Download HTTP weak encryption

241. | [157630] Nginx Controller up to 1.0.1/2.8.x/3.4.x NATS Messaging System weak authentication

242. | [157629] Nginx Controller up to 1.0.1/2.8.x/3.4.x User Interface weak authentication

243. | [157572] Nginx Controller up to 3.4.0 API Endpoint Reflected cross site scripting

244. | [157571] Nginx Controller up to 1.0.1/2.9.0/3.4.0 User Interface cross site request forgery

245. | [155282] nginx up to 1.18.0 privilege escalation

246. | [154857] Nginx Controller up to 3.3.0 Web Server Logout weak authentication

247. | [154326] Nginx Controller up to 3.2.x Agent Installer Script install.sh privilege escalation

248. | [154324] Nginx Controller up to 3.2.x Postgres Database Server information disclosure

249. | [154323] Nginx Controller up to 3.1.x TLS weak authentication

250. | [152728] strong-nginx-controller up to 1.0.2 _nginxCmd privilege escalation

251. | [152416] Nginx Controller up to 3.1.x Controller API privilege escalation

252. | [148519] nginx up to 1.17.6 Error Page privilege escalation

253. | [145942] nginx 0.8.40 HTTP Proxy Module privilege escalation

254. | [144114] Xiaomi Mi WiFi R3G up to 2.28.22 Nginx Alias account directory traversal

255. | [133852] Sangfor Sundray WLAN Controller up to 3.7.4.2 Cookie Header nginx_webconsole.php privilege escalation

256. | [132132] SoftNAS Cloud 4.2.0/4.2.1 Nginx privilege escalation

257. | [131858] Puppet Discovery up to 1.3.x Nginx Container weak authentication

258. | [130644] Nginx Unit up to 1.7.0 Router Process memory corruption

259. | [127759] VeryNginx 0.3.3 Web Application Firewall 7PK Security Features

260. | [126525] nginx up to 1.14.0/1.15.5 ngx_http_mp4_module information disclosure

261. | [126524] nginx up to 1.14.0/1.15.5 HTTP2 denial of service

262. | [126523] nginx up to 1.14.0/1.15.5 HTTP2 denial of service

263. | [103517] nginx up to 1.13.2 Range Filter memory corruption

264. | [89849] nginx RFC 3875 Namespace Conflict privilege escalation

- 265. | [87719] nginx up to 1.11.0 ngx_files.c ngx_chain_to_iovec denial of service
- 266. | [80760] nginx 0.6.18/1.9.9 DNS CNAME Record denial of service
- 267. | [80759] nginx 0.6.18/1.9.9 DNS CNAME Record memory corruption
- 268. | [80758] nginx 0.6.18/1.9.9 DNS UDP Packet denial of service
- 269. | [65364] nginx up to 1.1.13 Default Configuration privilege escalation
- 270. | [61434] nginx 1.2.0/1.3.0 on Windows Access Restriction privilege escalation
- 271. | [59645] nginx up to 0.8.9 memory corruption
- 272. | [53592] nginx 0.8.36 privilege escalation
- 273. | [53590] nginx up to 0.8.9 information disclosure
- 274. | [51533] nginx 0.7.64 Terminal privilege escalation
- 275. | [50905] nginx up to 0.8.9 directory traversal
- 276. | [50903] nginx up to 0.8.10 memory corruption
- 277. | [50043] nginx up to 0.8.10 memory corruption
- 278. | [67677] nginx up to 1.7.3 SSL privilege escalation
- 279. | [67296] nginx up to 1.7.3 SMTP Proxy ngx_mail_smtp_starttls privilege escalation
- 280. | [12824] nginx 1.5.10 on 32-bit SPDY memory corruption
- 281. | [12822] nginx up to 1.5.11 SPDY memory corruption
- 282. | [11237] nginx up to 1.5.6 URI String privilege escalation
- 283. | [8671] nginx up to 1.4 proxy_pass privilege escalation
- 284. | [8618] nginx 1.3.9/1.4.0 http/ngx_http_parse.c ngx_http_parse_chunked Numeric Error
- 285. | [7247] nginx 1.2.6 Proxy Function weak authentication
- 286. | [5293] nginx up to 1.1.18 ngx_http_mp4_module memory corruption
- 287. | [4843] nginx up to 1.0.13/1.1.16 HTTP Header Response Parser ngx_http_parse.c denial of service
- 288. |
- 289. | MITRE CVE - <https://cve.mitre.org>:
- 290. | [CVE-2013-2070] http/modules/ngx_http_proxy_module.c in nginx 1.1.4 through 1.2.8 and 1.3.0 through 1.4.0, when proxy_pass is used with untrusted HTTP servers, allows remote attackers to cause a denial of service (crash) and obtain sensitive information from worker process memory via a crafted proxy response, a similar vulnerability to CVE-2013-2028.
- 291. | [CVE-2013-2028] The ngx_http_parse_chunked function in http/ngx_http_parse.c in nginx 1.3.9 through 1.4.0 allows remote attackers to cause a denial of service (crash) and execute arbitrary code via a chunked Transfer-Encoding request with a large chunk size, which triggers an integer signedness error and a stack-based buffer overflow.
- 292. | [CVE-2012-3380] Directory traversal vulnerability in naxsi-ui/nx_extract.py in the Naxsi module before 0.46-1 for Nginx allows local users to read arbitrary files via unspecified vectors.
- 293. | [CVE-2012-2089] Buffer overflow in ngx_http_mp4_module.c in the ngx_http_mp4_module module in nginx 1.0.7 through 1.0.14 and 1.1.3 through 1.1.18, when the mp4 directive is used, allows remote attackers to cause a denial of service (memory overwrite) or possibly execute arbitrary code via a crafted MP4 file.
- 294. | [CVE-2012-1180] Use-after-free vulnerability in nginx before 1.0.14 and 1.1.x before 1.1.17 allows remote HTTP servers to obtain sensitive information from process memory via a crafted backend response, in conjunction with a client request.

- 295. | [CVE-2011-4963] nginx/Windows 1.3.x before 1.3.1 and 1.2.x before 1.2.1 allows remote attackers to bypass intended access restrictions and access restricted files via (1) a trailing . (dot) or (2) certain "\$index_allocation" sequences in a request.
- 296. | [CVE-2011-4315] Heap-based buffer overflow in compression-pointer processing in core/nginx_resolver.c in nginx before 1.0.10 allows remote resolvers to cause a denial of service (daemon crash) or possibly have unspecified other impact via a long response.
- 297. | [CVE-2010-2266] nginx 0.8.36 allows remote attackers to cause a denial of service (crash) via certain encoded directory traversal sequences that trigger memory corruption, as demonstrated using the "%c0.%c0." sequence.
- 298. | [CVE-2010-2263] nginx 0.8 before 0.8.40 and 0.7 before 0.7.66, when running on Windows, allows remote attackers to obtain source code or unparsed content of arbitrary files under the web document root by appending ::\$DATA to the URI.
- 299. | [CVE-2009-4487] nginx 0.7.64 writes data to a log file without sanitizing non-printable characters, which might allow remote attackers to modify a window's title, or possibly execute arbitrary commands or overwrite files, via an HTTP request containing an escape sequence for a terminal emulator.
- 300. | [CVE-2009-3898] Directory traversal vulnerability in src/http/modules/nginx_http_dav_module.c in nginx (aka Engine X) before 0.7.63, and 0.8.x before 0.8.17, allows remote authenticated users to create or overwrite arbitrary files via a .. (dot dot) in the Destination HTTP header for the WebDAV (1) COPY or (2) MOVE method.
- 301. | [CVE-2009-3896] src/http/nginx_http_parse.c in nginx (aka Engine X) 0.1.0 through 0.4.14, 0.5.x before 0.5.38, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.14 allows remote attackers to cause a denial of service (NULL pointer dereference and worker process crash) via a long URI.
- 302. | [CVE-2009-2629] Buffer underflow in src/http/nginx_http_parse.c in nginx 0.1.0 through 0.5.37, 0.6.x before 0.6.39, 0.7.x before 0.7.62, and 0.8.x before 0.8.15 allows remote attackers to execute arbitrary code via crafted HTTP requests.
- 303. |
- 304. | SecurityFocus - <https://www.securityfocus.com/bid/>:
- 305. | [99534] Nginx CVE-2017-7529 Remote Integer Overflow Vulnerability
- 306. | [93903] Nginx CVE-2016-1247 Remote Privilege Escalation Vulnerability
- 307. | [91819] Nginx CVE-2016-1000105 Security Bypass Vulnerability
- 308. | [90967] nginx CVE-2016-4450 Denial of Service Vulnerability
- 309. | [82230] nginx Multiple Denial of Service Vulnerabilities
- 310. | [78928] Nginx CVE-2010-2266 Denial-Of-Service Vulnerability
- 311. | [70025] nginx CVE-2014-3616 SSL Session Fixation Vulnerability
- 312. | [69111] nginx SMTP Proxy Remote Command Injection Vulnerability
- 313. | [67507] nginx SPDY Implementation CVE-2014-0088 Arbitrary Code Execution Vulnerability
- 314. | [66537] nginx SPDY Implementation Heap Based Buffer Overflow Vulnerability
- 315. | [63814] nginx CVE-2013-4547 URI Processing Security Bypass Vulnerability
- 316. | [59824] Nginx CVE-2013-2070 Remote Security Vulnerability
- 317. | [59699] nginx 'ngx_http_parse.c' Stack Buffer Overflow Vulnerability
- 318. | [59496] nginx 'ngx_http_close_connection()' Remote Integer Overflow Vulnerability
- 319. | [59323] nginx NULL-Byte Arbitrary Code Execution Vulnerability
- 320. | [58105] Nginx 'access.log' Insecure File Permissions Vulnerability
- 321. | [57139] nginx CVE-2011-4968 Man in The Middle Vulnerability
- 322. | [55920] nginx CVE-2011-4963 Security Bypass Vulnerability

323. | [54331] Nginx Naxsi Module 'nx_extract.py' Script Remote File Disclosure Vulnerability

324. | [52999] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability

325. | [52578] nginx 'ngx_cpystn()' Information Disclosure Vulnerability

326. | [50710] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability

327. | [40760] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities

328. | [40434] nginx Space String Remote Source Code Disclosure Vulnerability

329. | [40420] nginx Directory Traversal Vulnerability

330. | [37711] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability

331. | [36839] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability

332. | [36490] nginx WebDAV Multiple Directory Traversal Vulnerabilities

333. | [36438] nginx Proxy DNS Cache Domain Spoofing Vulnerability

334. | [36384] nginx HTTP Request Remote Buffer Overflow Vulnerability

335. |

336. | IBM X-Force - <https://exchange.xforce.ibmcloud.com>:

337. | [84623] Phusion Passenger gem for Ruby with nginx configuration insecure permissions

338. | [84172] nginx denial of service

339. | [84048] nginx buffer overflow

340. | [83923] nginx ngx_http_close_connection() integer overflow

341. | [83688] nginx null byte code execution

342. | [83103] Naxsi module for Nginx naxsi_unescape_uri() function security bypass

343. | [82319] nginx access.log information disclosure

344. | [80952] nginx SSL spoofing

345. | [77244] nginx and Microsoft Windows request security bypass

346. | [76778] Naxsi module for Nginx nx_extract.py directory traversal

347. | [74831] nginx ngx_http_mp4_module.c buffer overflow

348. | [74191] nginx ngx_cpystn() information disclosure

349. | [74045] nginx header response information disclosure

350. | [71355] nginx ngx_resolver_copy() buffer overflow

351. | [59370] nginx characters denial of service

352. | [59369] nginx DATA source code disclosure

353. | [59047] nginx space source code disclosure

354. | [58966] nginx unspecified directory traversal

355. | [54025] nginx ngx_http_parse.c denial of service

356. | [53431] nginx WebDAV component directory traversal

357. | [53328] Nginx CRC-32 cached domain name spoofing

358. | [53250] Nginx ngx_http_parse_complex_uri() function code execution

359. |

360. | Exploit-DB - <https://www.exploit-db.com>:

361. | [26737] nginx 1.3.9/1.4.0 x86 Brute Force Remote Exploit

362. | [25775] Nginx HTTP Server 1.3.9-1.4.0 Chunked Encoding Stack Buffer Overflow

363. | [25499] nginx 1.3.9-1.4.0 DoS PoC

364. | [24967] nginx 0.6.x Arbitrary Code Execution NullByte Injection

365. | [14830] nginx 0.6.38 - Heap Corruption Exploit

366. | [13822] Nginx <= 0.7.65 / 0.8.39 (dev) Source Disclosure / Download Vulnerability

367. | [13818] Nginx 0.8.36 Source Disclosure and DoS Vulnerabilities

368. | [12804] nginx [engine x] http server <= 0.6.36 Path Draversal
369. | [9901] nginx 0.7.0-0.7.61, 0.6.0-0.6.38, 0.5.0-0.5.37, 0.4.0-0.4.14 PoC
370. | [9829] nginx 0.7.61 WebDAV directory traversal
371. |
372. | OpenVAS (Nessus) - <http://www.openvas.org>:
373. | [864418] Fedora Update for nginx FEDORA-2012-3846
374. | [864310] Fedora Update for nginx FEDORA-2012-6238
375. | [864209] Fedora Update for nginx FEDORA-2012-6411
376. | [864204] Fedora Update for nginx FEDORA-2012-6371
377. | [864121] Fedora Update for nginx FEDORA-2012-4006
378. | [864115] Fedora Update for nginx FEDORA-2012-3991
379. | [864065] Fedora Update for nginx FEDORA-2011-16075
380. | [863654] Fedora Update for nginx FEDORA-2011-16110
381. | [861232] Fedora Update for nginx FEDORA-2007-1158
382. | [850180] SuSE Update for nginx openSUSE-SU-2012:0237-1 (nginx)
383. | [831680] Mandriva Update for nginx MDVSA-2012:043 (nginx)
384. | [802045] 64-bit Debian Linux Rootkit with nginx Doing iFrame Injection
385. | [801636] nginx HTTP Request Remote Buffer Overflow Vulnerability
386. | [103470] nginx 'ngx_http_mp4_module.c' Buffer Overflow Vulnerability
387. | [103469] nginx 'ngx_cpysrtn()' Information Disclosure Vulnerability
388. | [103344] nginx DNS Resolver Remote Heap Buffer Overflow Vulnerability
389. | [100676] nginx Remote Source Code Disclosure and Denial of Service Vulnerabilities
390. | [100659] nginx Directory Traversal Vulnerability
391. | [100658] nginx Space String Remote Source Code Disclosure Vulnerability
392. | [100441] nginx Terminal Escape Sequence in Logs Command Injection Vulnerability
393. | [100321] nginx 'ngx_http_process_request_headers()' Remote Buffer Overflow Vulnerability
394. | [100277] nginx Proxy DNS Cache Domain Spoofing Vulnerability
395. | [100276] nginx HTTP Request Remote Buffer Overflow Vulnerability
396. | [100275] nginx WebDAV Multiple Directory Traversal Vulnerabilities
397. | [71574] Gentoo Security Advisory GLSA 201206-07 (nginx)
398. | [71308] Gentoo Security Advisory GLSA 201203-22 (nginx)
399. | [71297] FreeBSD Ports: nginx
400. | [71276] FreeBSD Ports: nginx
401. | [71239] Debian Security Advisory DSA 2434-1 (nginx)
402. | [66451] Fedora Core 11 FEDORA-2009-12782 (nginx)
403. | [66450] Fedora Core 10 FEDORA-2009-12775 (nginx)
404. | [66449] Fedora Core 12 FEDORA-2009-12750 (nginx)
405. | [64924] Gentoo Security Advisory GLSA 200909-18 (nginx)
406. | [64912] Fedora Core 10 FEDORA-2009-9652 (nginx)
407. | [64911] Fedora Core 11 FEDORA-2009-9630 (nginx)
408. | [64894] FreeBSD Ports: nginx
409. | [64869] Debian Security Advisory DSA 1884-1 (nginx)
410. |
411. | SecurityTracker - <https://www.securitytracker.com>:
412. | [1028544] nginx Bug Lets Remote Users Deny Service or Obtain Potentially Sensitive Information
413. | [1028519] nginx Stack Overflow Lets Remote Users Execute Arbitrary Code

- 414. | [1026924] nginx Buffer Overflow in ngx_http_mp4_module Lets Remote Users Execute Arbitrary Code
- 415. | [1026827] nginx HTTP Response Processing Lets Remote Users Obtain Portions of Memory Contents
- 416. |
- 417. | OSVDB - <http://www.osvdb.org>:
- 418. | [94864] cPnginx Plugin for cPanel nginx Configuration Manipulation Arbitrary File Access
- 419. | [93282] nginx proxy_pass Crafted Upstream Proxied Server Response Handling Worker Process Memory Disclosure
- 420. | [93037] nginx /http/ngx_http_parse.c Worker Process Crafted Request Handling Remote Overflow
- 421. | [92796] nginx ngx_http_close_connection Function Crafted r->
- 422. | [92634] nginx ngx_http_request.h zero_in_uri URL Null Byte Handling Remote Code Execution
- 423. | [90518] nginx Log Directory Permission Weakness Local Information Disclosure
- 424. | [88910] nginx Proxy Functionality SSL Certificate Validation MitM Spoofing Weakness
- 425. | [84339] nginx/Windows Multiple Request Sequence Parsing Arbitrary File Access
- 426. | [83617] Naxsi Module for Nginx naxsi-ui/ nx_extract.py Traversal Arbitrary File Access
- 427. | [81339] nginx ngx_http_mp4_module Module Atom MP4 File Handling Remote Overflow
- 428. | [80124] nginx HTTP Header Response Parsing Freed Memory Information Disclosure
- 429. | [77184] nginx ngx_resolver.c ngx_resolver_copy() Function DNS Response Parsing Remote Overflow
- 430. | [65531] nginx on Windows URI::\$DATA Append Arbitrary File Access
- 431. | [65530] nginx Encoded Traversal Sequence Memory Corruption Remote DoS
- 432. | [65294] nginx on Windows Encoded Space Request Remote Source Disclosure
- 433. | [63136] nginx on Windows 8.3 Filename Alias Request Access Rules / Authentication Bypass
- 434. | [62617] nginx Internal DNS Cache Poisoning Weakness
- 435. | [61779] nginx HTTP Request Escape Sequence Terminal Command Injection
- 436. | [59278] nginx src/http/ngx_http_parse.c ngx_http_process_request_headers() Function URL Handling NULL Dereference DoS
- 437. | [58328] nginx WebDAV Multiple Method Traversal Arbitrary File Write
- 438. | [58128] nginx ngx_http_parse_complex_uri() Function Underflow
- 439. | [44447] nginx (engine x) msie_refresh Directive Unspecified XSS
- 440. | [44446] nginx (engine x) ssl_verify_client Directive HTTP/0.9 Protocol Bypass
- 441. | [44445] nginx (engine x) ngx_http_realip_module satisfy_any Directive Unspecified Access Bypass
- 442. | [44444] nginx (engine x) X-Accel-Redirect Header Unspecified Traversal
- 443. | [44443] nginx (engine x) rtsig Method Signal Queue Overflow
- 444. | [44442] nginx (engine x) Worker Process Millisecond Timers Unspecified Overflow

Resultados OWASP (ZAP) hacia la dirección local del firewall 192.168.57.1

1. **Cookie without SameSite Attribute:** se recomienda que para cookies el SameSite sea "lax" o (mejor aún) "strict". El impacto es bastante bajo.

No se han realizado tests de Apache Benchmarking a este router puesto que el equipo ha considerado que hacer que este router caiga no afectará excesivamente a ofrecer el servicio y por lo tanto el equipo ha concluido que el análisis para tan bajo impacto es innecesario.

ClienteRemoto (#LANB1):

Búsqueda manual:

1. **Microsoft Windows RPC** - Remote Procedure Call es conocido por tener vulnerabilidades en las interfaces MSRPC (por ejemplo, [CVE-2022-26809](#)) que pueden usarse por un atacante para recolectar información importante y comprometer servidores.
2. **5357/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)** -> Vulnerabilidades del Universal Plug and Play (p.ej. [CVE-2019-1405](#)) y el cliente realmente no lo necesitaría usar.
3. **139/tcp open netbios-ssn Microsoft Windows netbios-ssn** -> Servicio empleado por Microsoft Windows RPC.
4. **445/tcp open microsoft-ds Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)** -> Tener un puerto abierto para un grupo de trabajo cuando no hay grupo de trabajo.
5. **Vulnerabilidades adicionales de Windows 7:** en el siguiente [link de cvdetails.com](#) podemos comprobar que hay 2108 vulnerabilidades detectadas para windows 7. Aunque muchas de estas vulnerabilidades podrían solucionarse actualizando el S.O. Lo ideal sería cambiar a Windows 10 a su última versión.
6. **En Firefox 100.0.2** (Sacados de (Mozilla Foundation Security Advisory 2022-20, 2022) que en el momento de hacer el proyecto es la versión más reciente):

7. [\(CVE-2022-31736\) Cross-Origin resource's length leaked](#): A malicious website could have learned the size of a cross-origin resource that supported Range requests.
 8. [\(CVE-2022-31737\) Heap buffer overflow in WebGL](#): A malicious webpage could have caused an out-of-bounds write in WebGL, leading to memory corruption and a potentially exploitable crash.
 9. [\(CVE-2022-31738\): Browser window spoof using fullscreen mode](#): When exiting fullscreen mode, an iframe could have confused the browser about the current state of fullscreen, resulting in potential user confusion or spoofing attacks.
 10. [\(CVE-2022-31739\): Attacker-influenced path traversal when saving downloaded files](#): When downloading files on Windows only, the % character was not escaped, which could have lead to a download incorrectly being saved to attacker-influenced paths that used variables such as %HOMEPATH% or %APPDATA%.
 11. [\(CVE-2022-31740\): Register allocation problem in WASM on arm64](#): On arm64, WASM code could have resulted in incorrect assembly generation leading to a register allocation problem, and a potentially exploitable crash.
 12. [\(CVE-2022-31741\): Uninitialized variable leads to invalid memory read](#): A crafted CMS message could have been processed incorrectly, leading to an invalid memory read, and potentially further memory corruption.
 13. [\(CVE-2022-31742\): Querying a WebAuthn token with a large number of allowCredential entries may have leaked cross-origin information](#): An attacker could have exploited a timing attack by sending a large number of

allowCredential entries and detecting the difference between invalid key handles and cross-origin key handles. This could have led to cross-origin account linking in violation of WebAuthn goals.

14. [\(CVE-2022-31743\): HTML Parsing incorrectly ended HTML comments prematurely](#): Firefox's HTML parser did not correctly interpret HTML comment tags, resulting in an incongruity with other browsers. This could have been used to escape HTML comments on pages that put user-controlled data in them.
15. [\(CVE-2022-31744\): CSP bypass enabling stylesheet injection](#): An attacker could have injected CSS into stylesheets accessible via internal URIs, such as resource:, and in doing so bypass a page's Content Security Policy.
16. [\(CVE-2022-31745\): Incorrect Assertion caused by unoptimized array shift operations](#): If array shift operations are not used, the Garbage Collector may have become confused about valid objects.
17. [\(CVE-2022-1919\): Memory Corruption when manipulating webp images](#): An attacker could have caused an uninitialized variable on the stack to be mistakenly freed, causing a potentially exploitable crash.
18. [\(CVE-2022-31747\) and \(CVE-2022-31748\): Memory safety bugs fixed in Firefox 101](#): Versiones anteriores tenían un problema con memoria corrompible que podía ser explotable con un poco de esfuerzo.

Resultados vulscan:

Starting Nmap 7.92 (<https://nmap.org>) at 2022-06-16 15:24 EDT

Nmap scan report for 192.168.57.2

Host is up.

All 1000 scanned ports on 192.168.57.2 are in ignored states.

Not shown: 1000 filtered tcp ports (no-response)

NOTA: hemos analizado y cerrado los puertos que hemos considerado innecesarios y potenciales vulnerabilidades antes de hacer el vulscan de nuevo, esto ha cerrado todos los puertos que el nmap detectó (aunque se puede seguir haciendo ping y el cliente puede seguir contactando con su router)

No se han realizado ataques al cliente con Apache Benchmarking ni OWASP/ZAP ya que tras sopesarlo se considera que el cliente no es un objetivo tan importante para los atacantes como para hacer un ataque de DoS , no soporta ningún papel de servidor en un principio y está bien oculto tras una LAN o con el tráfico redirigido por la VPN en su totalidad.

Servidor (#LANB2):

Búsqueda manual:

1. **5357/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)** -> 1º es una versión más antigua de HTTP que la empleada para la versión actual de nuestro servidor, que solo debe hacer lo mínimo pedido. 2º ese puerto y su servicio relacionado son propensos a fugas de información que permiten acceso remoto no autorizado, por lo que debe de ser cerrado si no se usa.
2. **mod_sed: Read/write beyond bounds** ([CVE-2022-23943](#))
3. **HTTP request smuggling vulnerability in Apache HTTP Server 2.4.52 and earlier** ([CVE-2022-22720](#))
4. **mod_proxy_ajp: Possible request smuggling** ([CVE-2022-26377](#))

5. **La versión 1903 de Windows 10 dejó de tener soportes de seguridad desde 8-12-2020** (Microsoft, 2020)
6. **Windows 10 permite extraer las contraseñas con hash de NTLM de todas las cuentas de un dispositivo debido a políticas demasiado permisivas** ([CVE-2021-36934](#)) (Microsoft, 2021) y además **pueden instalarse drivers "Point and Print" sin permiso**.
7. **Windows 10 antes del 9-11-2021 permitía a Windows Installer subir de privilegios y poder borrar cualquier archivo - aunque no permitía al usuario verlos ni modificarlos** ([CVE-2021-41379](#)) (Microsoft, 2021).
8. **AV1 Video Extension Remote Code Execution Vulnerability** ([CVE-2022-30193](#)) (Microsoft, 2022).
9. **Windows SMB Denial of Service Vulnerability** ([CVE-2022-32230](#)) (Microsoft, 2022).
10. **Microsoft Windows Support Diagnostic Tool (MSDT) Remote Code Execution Vulnerability** ([CVE-2022-30190](#)) (Microsoft, 2022).
11. **Windows Hyper-V Remote Code Execution Vulnerability** ([CVE-2022-30163](#)) (Microsoft, 2022).
12. **En Firefox 100.0.2:** los mismos que el el ClienteRemoto.
13. **En XAMPP 8.1.2-0** (Vulmon, 2022):

- **(CVE-2022-29376)** Xampp para Windows v8.1.4 y más antiguos permite ejecutar código malicioso ya que su directorio de instalación no está protegido adecuadamente y los atacantes podrían sobrescribir sus archivos binarios (Vulmon, 2022).

Resultados vulscan:

- | | PORT | STATE | SERVICE | VERSION |
|-----|--------------------------------------------------------------------------------------------|-------|---------|------------------------------------------------|
| 1. | 80/tcp | open | http | Apache httpd 2.4.52 (OpenSSL/1.1.1m PHP/8.1.2) |
| 2. | vulscan: VulDB - https://vuldb.com : | | | |
| 3. | [104986] Apache CXF 2.4.5/2.5.1 WS-SP UsernameToken Policy weak authentication | | | |
| 4. | [67184] Apache HTTP Server 2.4.5/2.4.6 mod_cache denial of service | | | |
| 5. | [9683] Apache HTTP Server 2.4.5 mod_session_dbd denial of service | | | |
| 6. | [176770] Apache HTTP Server up to 2.4.46 on Windows denial of service | | | |
| 7. | [176769] Apache HTTP Server up to 2.4.46 MergeSlashes unknown vulnerability | | | |
| 8. | [176768] Apache HTTP Server up to 2.4.46 mod_session heap-based overflow | | | |
| 9. | [176767] Apache HTTP Server up to 2.4.46 mod_session null pointer dereference | | | |
| 10. | [176766] Apache HTTP Server up to 2.4.46 mod_proxy_http null pointer dereference | | | |
| 11. | [176765] Apache HTTP Server up to 2.4.46 mod_proxy_wstunnel improper authentication | | | |
| 12. | [176764] Apache HTTP Server up to 2.4.46 mod_auth_digest stack-based overflow | | | |
| 13. | [159399] Apache HTTP Server up to 2.4.43 HTTP2 Request privilege escalation | | | |
| 14. | [159376] Apache HTTP Server up to 2.4.43 mod_http2 privilege escalation | | | |
| 15. | [159375] Apache HTTP Server 2.4.24 mod_remoteip/mod_rewrite IP Address weak authentication | | | |
| 16. | [159374] Apache HTTP Server up to 2.4.44 mod_proxy_uwsgi memory corruption | | | |
| 17. | [152665] Apache HTTP Server up to 2.4.41 mod_proxy_ftp Uninitialized Resource | | | |
| 18. | [152664] Apache HTTP Server up to 2.4.41 mod_rewrite Redirect | | | |
| 19. | [142325] Apache HTTP Server up to 2.4.39 mod_remoteip denial of service | | | |
| 20. | [142324] Apache HTTP Server up to 2.4.39 mod_proxy cross site scripting | | | |
| 21. | [142323] Apache HTTP Server up to 2.4.39 HTTP2 Session memory corruption | | | |

22. | [142187] Apache HTTP Server up to 2.4.39 mod_rewrite Redirect
23. | [136374] Apache HTTP Server up to 2.4.38 Slash denial of service
24. | [136373] Apache HTTP Server 2.4.34/2.4.35/2.4.36/2.4.37/2.4.38 HTTP2 privilege escalation
25. | [136372] Apache HTTP Server up to 2.4.38 HTTP2 memory corruption
26. | [133112] Apache HTTP Server up to 2.4.38 mod_auth_digest race condition
27. | [133111] Apache HTTP Server 2.4.37/2.4.38 mod_ssl privilege escalation
28. | [130341] Apache HTTP Server 2.4.37 mod_ssl privilege escalation
29. | [130330] Apache HTTP Server up to 2.4.37 mod_session Expired weak authentication
30. | [130329] Apache HTTP Server 2.4.37 mod_http2 Slowloris denial of service
31. | [122569] Apache HTTP Server up to 2.4.33 HTTP2 Request denial of service
32. | [121910] Apache HTTP Server 2.4.33 mod_md denial of service
33. | [115061] Apache HTTP Server up to 2.4.29 HTTP Digest Authentication Challenge weak authentication
34. | [115060] Apache HTTP Server up to 2.4.29 mod_cache_socache information disclosure
35. | [115059] Apache HTTP Server up to 2.4.29 HTTP2 denial of service
36. | [115058] Apache HTTP Server up to 2.4.29 memory corruption
37. | [115057] Apache HTTP Server up to 2.4.29 mod_session privilege escalation
38. | [115039] Apache HTTP Server up to 2.4.29 FilesMatch privilege escalation
39. | [114258] Apache HTTP Server up to 2.4.22 mod_cluster privilege escalation
40. | [103521] Apache HTTP Server 2.4.26 HTTP2 Free memory corruption
41. | [94627] Apache HTTP Server up to 2.4.24 mod_auth_digest privilege escalation
42. | [94626] Apache HTTP Server up to 2.4.24 mod_session_crypto Padding weak encryption
43. | [94625] Apache HTTP Server up to 2.4.24 Response Split Data Processing Error
44. | [93958] Apache HTTP Server up to 2.4.23 mod_http2 h2_stream.c privilege escalation
45. | [89669] Apache HTTP Server up to 2.4.23 RFC 3875 Namespace Conflict privilege escalation
46. | [88747] Apache HTTP Server 2.4.17/2.4.18 mod_http2 denial of service
47. | [88667] Apache HTTP Server up to 2.4.20 mod_http2 privilege escalation
48. | [76733] Apache HTTP Server 2.4.7/2.4.8/2.4.9/2.4.10/2.4.12 ap_some_auth_required privilege escalation
49. | [76732] Apache HTTP Server 2.4.7/2.4.8/2.4.9/2.4.10/2.4.12 Request apr_brigade_flatten privilege escalation
50. | [76731] Apache HTTP Server 2.4.12 ErrorDocument 400 denial of service
51. | [74367] Apache HTTP Server up to 2.4.12 mod_lua lua_request.c wsupgrade privilege escalation
52. | [73106] Apache Hadoop up to 2.4.0 privilege escalation
53. | [68575] Apache HTTP Server up to 2.4.10 LuaAuthzProvider mod_lua.c privilege escalation
54. | [62417] Apache CXF 2.4.7/2.4.8/2.5.3/2.5.4/2.6.1 privilege escalation
55. | [68435] Apache HTTP Server 2.4.10 mod_proxy_fcgi.c handle_headers memory corruption
56. | [67185] Apache HTTP Server up to 2.4.9 mod_status race condition
57. | [67183] Apache HTTP Server up to 2.4.9 mod_proxy privilege escalation
58. | [67182] Apache HTTP Server up to 2.4.9 mod_deflate denial of service
59. | [67181] Apache HTTP Server up to 2.4.9 mod_cgid denial of service
60. | [67180] Apache HTTP Server up to 2.4.9 WinNT MPM denial of service

61. | [13300] Apache HTTP Server 2.4.1/2.4.2 mod_wsgi setuid privilege escalation
62. | [13299] Apache HTTP Server 2.4.1/2.4.2 mod_wsgi information disclosure
63. | [12667] Apache HTTP Server 2.4.7 mod_log_config.c log_cookie privilege escalation
64. | [9673] Apache HTTP Server up to 2.4.4 mod_dav mod_dav.c privilege escalation
65. | [7202] Apache HTTP Server 2.4.2 on Oracle Solaris ld_library_path privilege escalation
66. | [6092] Apache HTTP Server 2.4.0/2.4.1/2.4.2 mod_proxy_ajp.c information disclosure
67. | [6090] Apache HTTP Server 2.4.0/2.4.1/2.4.2 mod_proxy_http.c information disclosure
68. |
69. | MITRE CVE - <https://cve.mitre.org>:
70. | [CVE-2013-2249] mod_session_dbd.c in the mod_session_dbd module in the Apache HTTP Server before 2.4.5 proceeds with save operations for a session without considering the dirty flag and the requirement for a new session ID, which has unspecified impact and remote attack vectors.
71. | [CVE-2012-2378] Apache CXF 2.4.5 through 2.4.7, 2.5.1 through 2.5.3, and 2.6.x before 2.6.1, does not properly enforce child policies of a WS-SecurityPolicy 1.1 SupportingToken policy on the client side, which allows remote attackers to bypass the (1) AlgorithmSuite, (2) SignedParts, (3) SignedElements, (4) EncryptedParts, and (5) EncryptedElements policies.
72. | [CVE-2012-4558] Multiple cross-site scripting (XSS) vulnerabilities in the balancer_handler function in the manager interface in mod_proxy_balancer.c in the mod_proxy_balancer module in the Apache HTTP Server 2.2.x before 2.2.24-dev and 2.4.x before 2.4.4 allow remote attackers to inject arbitrary web script or HTML via a crafted string.
73. | [CVE-2012-3502] The proxy functionality in (1) mod_proxy_ajp.c in the mod_proxy_ajp module and (2) mod_proxy_http.c in the mod_proxy_http module in the Apache HTTP Server 2.4.x before 2.4.3 does not properly determine the situations that require closing a back-end connection, which allows remote attackers to obtain sensitive information in opportunistic circumstances by reading a response that was intended for a different client.
74. | [CVE-2012-3499] Multiple cross-site scripting (XSS) vulnerabilities in the Apache HTTP Server 2.2.x before 2.2.24-dev and 2.4.x before 2.4.4 allow remote attackers to inject arbitrary web script or HTML via vectors involving hostnames and URLs in the (1) mod_imagemap, (2) mod_info, (3) mod_ldap, (4) mod_proxy_ftp, and (5) mod_status modules.
75. | [CVE-2012-3451] Apache CXF before 2.4.9, 2.5.x before 2.5.5, and 2.6.x before 2.6.2 allows remote attackers to execute unintended web-service operations by sending a header with a SOAP Action String that is inconsistent with the message body.
76. | [CVE-2012-2687] Multiple cross-site scripting (XSS) vulnerabilities in the make_variant_list function in mod_negotiation.c in the mod_negotiation module in the Apache HTTP Server 2.4.x before 2.4.3, when the MultiViews option is enabled, allow remote attackers to inject arbitrary web script or HTML via a crafted filename that is not properly handled during construction of a variant list.
77. | [CVE-2012-2379] Apache CXF 2.4.x before 2.4.8, 2.5.x before 2.5.4, and 2.6.x before 2.6.1, when a Supporting Token specifies a child WS-SecurityPolicy 1.1 or 1.2 policy, does not properly ensure that an XML element is signed or encrypted, which has unspecified impact and attack vectors.
78. | [CVE-2012-0883] envvars (aka envvars-std) in the Apache HTTP Server before 2.4.2 places a zero-length directory name in the LD_LIBRARY_PATH, which allows local

users to gain privileges via a Trojan horse DSO in the current working directory during execution of apachectl.

79. | [CVE-2011-2516] Off-by-one error in the XML signature feature in Apache XML Security for C++ 1.6.0, as used in Shibboleth before 2.4.3 and possibly other products, allows remote attackers to cause a denial of service (crash) via a signature using a large RSA key, which triggers a buffer overflow.
80. |
81. | SecurityFocus - <https://www.securityfocus.com/bid/>:
82. | [42102] Apache 'mod_proxy_http' 2.2.9 for Unix Timeout Handling Information Disclosure Vulnerability
83. | [27237] Apache HTTP Server 2.2.6, 2.0.61 and 1.3.39 'mod_status' Cross-Site Scripting Vulnerability
84. | [15413] PHP Apache 2 Virtual() Safe_Mode and Open_Basedir Restriction Bypass Vulnerability
85. | [15177] PHP Apache 2 Local Denial of Service Vulnerability
86. | [6065] Apache 2 WebDAV CGI POST Request Information Disclosure Vulnerability
87. | [5816] Apache 2 mod_dav Denial Of Service Vulnerability
88. | [5486] Apache 2.0 CGI Path Disclosure Vulnerability
89. | [5485] Apache 2.0 Path Disclosure Vulnerability
90. | [5434] Apache 2.0 Encoded Backslash Directory Traversal Vulnerability
91. | [5256] Apache httpd 2.0 CGI Error Path Disclosure Vulnerability
92. | [4057] Apache 2 for Windows OPTIONS request Path Disclosure Vulnerability
93. | [4056] Apache 2 for Windows php.exe Path Disclosure Vulnerability
94. |
95. | IBM X-Force - <https://exchange.xforce.ibmcloud.com/>:
96. | [75211] Debian GNU/Linux apache 2 cross-site scripting
97. |
98. | Exploit-DB - <https://www.exploit-db.com/>:
99. | [31052] Apache <= 2.2.6 'mod_negotiation' HTML Injection and HTTP Response Splitting Vulnerability
100. | [30901] Apache HTTP Server 2.2.6 Windows Share PHP File Extension Mapping Information Disclosure Vulnerability
101. | [30835] Apache HTTP Server <= 2.2.4 413 Error HTTP Request Method Cross-Site Scripting Weakness
102. | [28424] Apache 2.x HTTP Server Arbitrary HTTP Request Headers Security Weakness
103. | [28365] Apache 2.2.2 CGI Script Source Code Information Disclosure Vulnerability
104. | [27915] Apache James 2.2 SMTP Denial of Service Vulnerability
105. | [27135] Apache Struts 2 DefaultActionMapper Prefixes OGNL Code Execution
106. | **[26710] Apache CXF prior to 2.5.10, 2.6.7 and 2.7.4 - Denial of Service**
107. | [24590] Apache 2.0.x mod_ssl Remote Denial of Service Vulnerability
108. | [23581] Apache 2.0.4x mod_perl Module File Descriptor Leakage Vulnerability
109. | [23482] Apache 2.0.4x mod_php Module File Descriptor Leakage Vulnerability (2)
110. | [23481] Apache 2.0.4x mod_php Module File Descriptor Leakage Vulnerability (1)
111. | [23296] Red Hat Apache 2.0.40 Directory Index Default Configuration Error
112. | [23282] apache cocoon 2.14/2.2 - Directory Traversal vulnerability
113. | [22191] Apache Web Server 2.0.x MS-DOS Device Name Denial of Service Vulnerability
114. | [21854] Apache 2.0.39/40 Oversized STDERR Buffer Denial of Service Vulnerability
115. | [21719] Apache 2.0 Path Disclosure Vulnerability
116. | [21697] Apache 2.0 Encoded Backslash Directory Traversal Vulnerability
117. | [20272] Apache 1.2.5/1.3.1, UnityMail 2.0 MIME Header DoS Vulnerability

- 118. | [19828] Cobalt RaQ 2.0/3.0 Apache .htaccess Disclosure Vulnerability
- 119. | [18984] Apache Struts <= 2.2.1.1 - Remote Command Execution
- 120. | [18329] Apache Struts2 <= 2.3.1 - Multiple Vulnerabilities
- 121. | [17691] Apache Struts < 2.2.0 - Remote Command Execution
- 122. | [15319] Apache 2.2 (Windows) Local Denial of Service
- 123. | [14617] Apache JackRabbit 2.0.0 webapp XPath Injection
- 124. | [11650] Apache 2.2.14 mod_isapi Dangling Pointer Remote SYSTEM Exploit
- 125. | [8458] Apache Geronimo <= 2.1.3 - Multiple Directory Traversal Vulnerabilities
- 126. | [5330] Apache 2.0 mod_jk2 2.0.2 - Remote Buffer Overflow Exploit (win32)
- 127. | [3996] Apache 2.0.58 mod_rewrite Remote Overflow Exploit (win2k3)
- 128. | [2237] Apache < 1.3.37, 2.0.59, 2.2.3 (mod_rewrite) Remote Overflow PoC
- 129. | [1056] Apache <= 2.0.49 Arbitrary Long HTTP Headers Denial of Service
- 130. | [855] Apache <= 2.0.52 HTTP GET request Denial of Service Exploit
- 131. | [132] Apache 1.3.x - 2.0.48 - mod_userdir Remote Users Disclosure Exploit
- 132. | [38] Apache <= 2.0.45 APR Remote Exploit -Apache-Knacker.pl
- 133. | [34] Webfroot Shoutbox < 2.32 (Apache) Remote Exploit
- 134. | [11] Apache <= 2.0.44 Linux Remote Denial of Service Exploit
- 135. | [9] Apache HTTP Server 2.x Memory Leak Exploit
- 136. |
- 137. | OpenVAS (Nessus) - <http://www.openvas.org>:
- 138. | [855524] Solaris Update for Apache 2 120544-14
- 139. | [855077] Solaris Update for Apache 2 120543-14
- 140. | [100858] Apache 'mod_proxy_http' 2.2.9 for Unix Timeout Handling Information Disclosure Vulnerability
- 141. | [72626] Debian Security Advisory DSA 2579-1 (apache2)
- 142. | [71551] Gentoo Security Advisory GLSA 201206-25 (apache)
- 143. | [71550] Gentoo Security Advisory GLSA 201206-24 (apache tomcat)
- 144. | [71485] Debian Security Advisory DSA 2506-1 (libapache-mod-security)
- 145. | [71256] Debian Security Advisory DSA 2452-1 (apache2)
- 146. | [71238] Debian Security Advisory DSA 2436-1 (libapache2-mod-fcgid)
- 147. | [70724] Debian Security Advisory DSA 2405-1 (apache2)
- 148. | [70235] Debian Security Advisory DSA 2298-2 (apache2)
- 149. | [70233] Debian Security Advisory DSA 2298-1 (apache2)
- 150. | [69988] Debian Security Advisory DSA 2279-1 (libapache2-mod-authnz-external)
- 151. | [69338] Debian Security Advisory DSA 2202-1 (apache2)
- 152. | [65131] SLES9: Security update for Apache 2 oes/CORE
- 153. | [64426] Gentoo Security Advisory GLSA 200907-04 (apache)
- 154. | [61381] Gentoo Security Advisory GLSA 200807-06 (apache)
- 155. | [60582] Gentoo Security Advisory GLSA 200803-19 (apache)
- 156. | [58745] Gentoo Security Advisory GLSA 200711-06 (apache)
- 157. | [57851] Gentoo Security Advisory GLSA 200608-01 (apache)
- 158. | [56246] Gentoo Security Advisory GLSA 200602-03 (Apache)
- 159. | [55392] Gentoo Security Advisory GLSA 200509-12 (Apache)
- 160. | [55129] Gentoo Security Advisory GLSA 200508-15 (apache)
- 161. | [54739] Gentoo Security Advisory GLSA 200411-18 (apache)
- 162. | [54724] Gentoo Security Advisory GLSA 200411-03 (apache)
- 163. | [54712] Gentoo Security Advisory GLSA 200410-21 (apache)
- 164. | [54689] Gentoo Security Advisory GLSA 200409-33 (net=www/apache)
- 165. | [54677] Gentoo Security Advisory GLSA 200409-21 (apache)
- 166. | [54610] Gentoo Security Advisory GLSA 200407-03 (Apache)
- 167. | [54601] Gentoo Security Advisory GLSA 200406-16 (Apache)

- 168. | [54590] Gentoo Security Advisory GLSA 200406-05 (Apache)
- 169. | [54582] Gentoo Security Advisory GLSA 200405-22 (Apache)
- 170. | [54529] Gentoo Security Advisory GLSA 200403-04 (Apache)
- 171. | [54499] Gentoo Security Advisory GLSA 200310-04 (Apache)
- 172. | [54498] Gentoo Security Advisory GLSA 200310-03 (Apache)
- 173. | [11092] Apache 2.0.39 Win32 directory traversal
- 174. | [66081] SLES11: Security update for Apache 2
- 175. | [66074] SLES10: Security update for Apache 2
- 176. | [66070] SLES9: Security update for Apache 2
- 177. | [65893] SLES10: Security update for Apache 2
- 178. | [65888] SLES10: Security update for Apache 2
- 179. | [65510] SLES9: Security update for Apache 2
- 180. | [65249] SLES9: Security update for Apache 2
- 181. | [65230] SLES9: Security update for Apache 2
- 182. | [65228] SLES9: Security update for Apache 2
- 183. | [65207] SLES9: Security update for Apache 2
- 184. | [65136] SLES9: Security update for Apache 2
- 185. | [65017] SLES9: Security update for Apache 2
- 186. |
- 187. | SecurityTracker - <https://www.securitytracker.com>:
- 188. | [1008196] Apache 2.x on Windows May Return Unexpected Files For URLs Ending With Certain Characters
- 189. | [1007143] Apache 2.0 Web Server May Use a Weaker Encryption Implementation Than Specified in Some Cases
- 190. | [1006444] Apache 2.0 Web Server Line Feed Buffer Allocation Flaw Lets Remote Users Deny Service
- 191. | [1005963] Apache Web Server 2.x Windows Device Access Flaw Lets Remote Users Crash the Server or Possibly Execute Arbitrary Code
- 192. | [1004770] Apache 2.x Web Server ap_log_error() Function May Disclose Full Installation Path to Remote Users
- 193. |
- 194. | OSVDB - <http://www.osvdb.org>:
- 195. | [20897] PHP w/ Apache 2 SAPI virtual() Function Unspecified INI Setting Disclosure
- 196. | _
- 197. | **_http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.2**
- 198. **443/tcp open ssl/http Apache httpd 2.4.52 ((Win64) OpenSSL/1.1.1m PHP/8.1.2)**
- 199. | vulscan: VulDB - <https://vuldb.com>:
- 200. | [104986] Apache CXF 2.4.5/2.5.1 WS-SP UsernameToken Policy weak authentication
- 201. | [67184] Apache HTTP Server 2.4.5/2.4.6 mod_cache denial of service
- 202. | [9683] Apache HTTP Server 2.4.5 mod_session_dbd denial of service
- 203. | [176770] Apache HTTP Server up to 2.4.46 on Windows denial of service
- 204. | [176769] Apache HTTP Server up to 2.4.46 MergeSlashes unknown vulnerability
- 205. | [176768] Apache HTTP Server up to 2.4.46 mod_session heap-based overflow
- 206. | [176767] Apache HTTP Server up to 2.4.46 mod_session null pointer dereference
- 207. | [176766] Apache HTTP Server up to 2.4.46 mod_proxy_http null pointer dereference
- 208. | [176765] Apache HTTP Server up to 2.4.46 mod_proxy_wstunnel improper authentication
- 209. | [176764] Apache HTTP Server up to 2.4.46 mod_auth_digest stack-based overflow
- 210. | [159399] Apache HTTP Server up to 2.4.43 HTTP2 Request privilege escalation
- 211. | [159376] Apache HTTP Server up to 2.4.43 mod_http2 privilege escalation

- 212. | [159375] Apache HTTP Server 2.4.24 mod_remoteip/mod_rewrite IP Address weak authentication
- 213. | [159374] Apache HTTP Server up to 2.4.44 mod_proxy_uwsgi memory corruption
- 214. | [152665] Apache HTTP Server up to 2.4.41 mod_proxy_ftp Uninitialized Resource
- 215. | [152664] Apache HTTP Server up to 2.4.41 mod_rewrite Redirect
- 216. | [142325] Apache HTTP Server up to 2.4.39 mod_remoteip denial of service
- 217. | [142324] Apache HTTP Server up to 2.4.39 mod_proxy cross site scripting
- 218. | [142323] Apache HTTP Server up to 2.4.39 HTTP2 Session memory corruption
- 219. | [142187] Apache HTTP Server up to 2.4.39 mod_rewrite Redirect
- 220. | [136374] Apache HTTP Server up to 2.4.38 Slash denial of service
- 221. | [136373] Apache HTTP Server 2.4.34/2.4.35/2.4.36/2.4.37/2.4.38 HTTP2 privilege escalation
- 222. | [136372] Apache HTTP Server up to 2.4.38 HTTP2 memory corruption
- 223. | [133112] Apache HTTP Server up to 2.4.38 mod_auth_digest race condition
- 224. | [133111] Apache HTTP Server 2.4.37/2.4.38 mod_ssl privilege escalation
- 225. | [130341] Apache HTTP Server 2.4.37 mod_ssl privilege escalation
- 226. | [130330] Apache HTTP Server up to 2.4.37 mod_session Expired weak authentication
- 227. | [130329] Apache HTTP Server 2.4.37 mod_http2 Slowloris denial of service
- 228. | [122569] Apache HTTP Server up to 2.4.33 HTTP2 Request denial of service
- 229. | [121910] Apache HTTP Server 2.4.33 mod_md denial of service
- 230. | [115061] Apache HTTP Server up to 2.4.29 HTTP Digest Authentication Challenge weak authentication
- 231. | [115060] Apache HTTP Server up to 2.4.29 mod_cache_socache information disclosure
- 232. | [115059] Apache HTTP Server up to 2.4.29 HTTP2 denial of service
- 233. | [115058] Apache HTTP Server up to 2.4.29 memory corruption
- 234. | [115057] Apache HTTP Server up to 2.4.29 mod_session privilege escalation
- 235. | [115039] Apache HTTP Server up to 2.4.29 FilesMatch privilege escalation
- 236. | [114258] Apache HTTP Server up to 2.4.22 mod_cluster privilege escalation
- 237. | [103521] Apache HTTP Server 2.4.26 HTTP2 Free memory corruption
- 238. | [94627] Apache HTTP Server up to 2.4.24 mod_auth_digest privilege escalation
- 239. | [94626] Apache HTTP Server up to 2.4.24 mod_session_crypto Padding weak encryption
- 240. | [94625] Apache HTTP Server up to 2.4.24 Response Split Data Processing Error
- 241. | [93958] Apache HTTP Server up to 2.4.23 mod_http2 h2_stream.c privilege escalation
- 242. | [89669] Apache HTTP Server up to 2.4.23 RFC 3875 Namespace Conflict privilege escalation
- 243. | [88747] Apache HTTP Server 2.4.17/2.4.18 mod_http2 denial of service
- 244. | [88667] Apache HTTP Server up to 2.4.20 mod_http2 privilege escalation
- 245. | [76733] Apache HTTP Server 2.4.7/2.4.8/2.4.9/2.4.10/2.4.12 ap_some_auth_required privilege escalation
- 246. | [76732] Apache HTTP Server 2.4.7/2.4.8/2.4.9/2.4.10/2.4.12 Request apr_brigade_flatten privilege escalation
- 247. | [76731] Apache HTTP Server 2.4.12 ErrorDocument 400 denial of service
- 248. | [74367] Apache HTTP Server up to 2.4.12 mod_lua lua_request.c wsupgrade privilege escalation
- 249. | [73106] Apache Hadoop up to 2.4.0 privilege escalation
- 250. | [68575] Apache HTTP Server up to 2.4.10 LuaAuthzProvider mod_lua.c privilege escalation

- 251. | [62417] Apache CXF 2.4.7/2.4.8/2.5.3/2.5.4/2.6.1 privilege escalation
- 252. | [68435] Apache HTTP Server 2.4.10 mod_proxy_fcgi.c handle_headers memory corruption
- 253. | [67185] Apache HTTP Server up to 2.4.9 mod_status race condition
- 254. | [67183] Apache HTTP Server up to 2.4.9 mod_proxy privilege escalation
- 255. | [67182] Apache HTTP Server up to 2.4.9 mod_deflate denial of service
- 256. | [67181] Apache HTTP Server up to 2.4.9 mod_cgid denial of service
- 257. | [67180] Apache HTTP Server up to 2.4.9 WinNT MPM denial of service
- 258. | [13300] Apache HTTP Server 2.4.1/2.4.2 mod_wsgi setuid privilege escalation
- 259. | [13299] Apache HTTP Server 2.4.1/2.4.2 mod_wsgi information disclosure
- 260. | [12667] Apache HTTP Server 2.4.7 mod_log_config.c log_cookie privilege escalation
- 261. | [9673] Apache HTTP Server up to 2.4.4 mod_dav mod_dav.c privilege escalation
- 262. | [7202] Apache HTTP Server 2.4.2 on Oracle Solaris ld_library_path privilege escalation
- 263. | [6092] Apache HTTP Server 2.4.0/2.4.1/2.4.2 mod_proxy_ajp.c information disclosure
- 264. | [6090] Apache HTTP Server 2.4.0/2.4.1/2.4.2 mod_proxy_http.c information disclosure
- 265. |
- 266. | MITRE CVE - <https://cve.mitre.org>:
- 267. | [CVE-2013-2249] mod_session_dbd.c in the mod_session_dbd module in the Apache HTTP Server before 2.4.5 proceeds with save operations for a session without considering the dirty flag and the requirement for a new session ID, which has unspecified impact and remote attack vectors.
- 268. | [CVE-2012-2378] Apache CXF 2.4.5 through 2.4.7, 2.5.1 through 2.5.3, and 2.6.x before 2.6.1, does not properly enforce child policies of a WS-SecurityPolicy 1.1 SupportingToken policy on the client side, which allows remote attackers to bypass the (1) AlgorithmSuite, (2) SignedParts, (3) SignedElements, (4) EncryptedParts, and (5) EncryptedElements policies.
- 269. | [CVE-2012-4558] Multiple cross-site scripting (XSS) vulnerabilities in the balancer_handler function in the manager interface in mod_proxy_balancer.c in the mod_proxy_balancer module in the Apache HTTP Server 2.2.x before 2.2.24-dev and 2.4.x before 2.4.4 allow remote attackers to inject arbitrary web script or HTML via a crafted string.
- 270. | [CVE-2012-3502] The proxy functionality in (1) mod_proxy_ajp.c in the mod_proxy_ajp module and (2) mod_proxy_http.c in the mod_proxy_http module in the Apache HTTP Server 2.4.x before 2.4.3 does not properly determine the situations that require closing a back-end connection, which allows remote attackers to obtain sensitive information in opportunistic circumstances by reading a response that was intended for a different client.
- 271. | [CVE-2012-3499] Multiple cross-site scripting (XSS) vulnerabilities in the Apache HTTP Server 2.2.x before 2.2.24-dev and 2.4.x before 2.4.4 allow remote attackers to inject arbitrary web script or HTML via vectors involving hostnames and URIs in the (1) mod_imagemap, (2) mod_info, (3) mod_ldap, (4) mod_proxy_ftp, and (5) mod_status modules.
- 272. | [CVE-2012-3451] Apache CXF before 2.4.9, 2.5.x before 2.5.5, and 2.6.x before 2.6.2 allows remote attackers to execute unintended web-service operations by sending a header with a SOAP Action String that is inconsistent with the message body.
- 273. | [CVE-2012-2687] Multiple cross-site scripting (XSS) vulnerabilities in the make_variant_list function in mod_negotiation.c in the mod_negotiation module in the Apache HTTP Server 2.4.x before 2.4.3, when the MultiViews option is enabled,

- allow remote attackers to inject arbitrary web script or HTML via a crafted filename that is not properly handled during construction of a variant list.
- 274. | [CVE-2012-2379] Apache CXF 2.4.x before 2.4.8, 2.5.x before 2.5.4, and 2.6.x before 2.6.1, when a Supporting Token specifies a child WS-SecurityPolicy 1.1 or 1.2 policy, does not properly ensure that an XML element is signed or encrypted, which has unspecified impact and attack vectors.
 - 275. | [CVE-2012-0883] envvars (aka envvars-std) in the Apache HTTP Server before 2.4.2 places a zero-length directory name in the LD_LIBRARY_PATH, which allows local users to gain privileges via a Trojan horse DSO in the current working directory during execution of apachectl.
 - 276. | [CVE-2011-2516] Off-by-one error in the XML signature feature in Apache XML Security for C++ 1.6.0, as used in Shibboleth before 2.4.3 and possibly other products, allows remote attackers to cause a denial of service (crash) via a signature using a large RSA key, which triggers a buffer overflow.
 - 277. |
 - 278. | SecurityFocus - <https://www.securityfocus.com/bid/>:
 - 279. | [42102] Apache 'mod_proxy_http' 2.2.9 for Unix Timeout Handling Information Disclosure Vulnerability
 - 280. | [27237] Apache HTTP Server 2.2.6, 2.0.61 and 1.3.39 'mod_status' Cross-Site Scripting Vulnerability
 - 281. | [15413] PHP Apache 2 Virtual() Safe_Mode and Open_Basedir Restriction Bypass Vulnerability
 - 282. | **[15177] PHP Apache 2 Local Denial of Service Vulnerability**
 - 283. | [6065] Apache 2 WebDAV CGI POST Request Information Disclosure Vulnerability
 - 284. | [5816] Apache 2 mod_dav Denial Of Service Vulnerability
 - 285. | [5486] Apache 2.0 CGI Path Disclosure Vulnerability
 - 286. | [5485] Apache 2.0 Path Disclosure Vulnerability
 - 287. | [5434] Apache 2.0 Encoded Backslash Directory Traversal Vulnerability
 - 288. | [5256] Apache httpd 2.0 CGI Error Path Disclosure Vulnerability
 - 289. | [4057] Apache 2 for Windows OPTIONS request Path Disclosure Vulnerability
 - 290. | [4056] Apache 2 for Windows php.exe Path Disclosure Vulnerability
 - 291. |
 - 292. | IBM X-Force - <https://exchange.xforce.ibmcloud.com/>:
 - 293. | [75211] Debian GNU/Linux apache 2 cross-site scripting
 - 294. |
 - 295. | Exploit-DB - <https://www.exploit-db.com/>:
 - 296. | [31052] Apache <= 2.2.6 'mod_negotiation' HTML Injection and HTTP Response Splitting Vulnerability
 - 297. | [30901] Apache HTTP Server 2.2.6 Windows Share PHP File Extension Mapping Information Disclosure Vulnerability
 - 298. | [30835] Apache HTTP Server <= 2.2.4 413 Error HTTP Request Method Cross-Site Scripting Weakness
 - 299. | [28424] Apache 2.x HTTP Server Arbitrary HTTP Request Headers Security Weakness
 - 300. | [28365] Apache 2.2.2 CGI Script Source Code Information Disclosure Vulnerability
 - 301. | [27915] Apache James 2.2 SMTP Denial of Service Vulnerability
 - 302. | [27135] Apache Struts 2 DefaultActionMapper Prefixes OGNL Code Execution
 - 303. | [26710] Apache CXF prior to 2.5.10, 2.6.7 and 2.7.4 - Denial of Service
 - 304. | [24590] Apache 2.0.x mod_ssl Remote Denial of Service Vulnerability
 - 305. | [23581] Apache 2.0.4x mod_perl Module File Descriptor Leakage Vulnerability
 - 306. | [23482] Apache 2.0.4x mod_php Module File Descriptor Leakage Vulnerability (2)
 - 307. | [23481] Apache 2.0.4x mod_php Module File Descriptor Leakage Vulnerability (1)

308. | [23296] Red Hat Apache 2.0.40 Directory Index Default Configuration Error
309. | [23282] apache cocoon 2.14/2.2 - Directory Traversal vulnerability
310. | [22191] Apache Web Server 2.0.x MS-DOS Device Name Denial of Service Vulnerability
311. | [21854] Apache 2.0.39/40 Oversized STDERR Buffer Denial of Service Vulnerability
312. | [21719] Apache 2.0 Path Disclosure Vulnerability
313. | [21697] Apache 2.0 Encoded Backslash Directory Traversal Vulnerability
314. | [20272] Apache 1.2.5/1.3.1,UnityMail 2.0 MIME Header DoS Vulnerability
315. | [19828] Cobalt RaQ 2.0/3.0 Apache .htaccess Disclosure Vulnerability
316. | [18984] Apache Struts <= 2.2.1.1 - Remote Command Execution
317. | [18329] Apache Struts2 <= 2.3.1 - Multiple Vulnerabilities
318. | [17691] Apache Struts < 2.2.0 - Remote Command Execution
319. | [15319] Apache 2.2 (Windows) Local Denial of Service
320. | [14617] Apache JackRabbit 2.0.0 webapp XPath Injection
321. | [11650] Apache 2.2.14 mod_isapi Dangling Pointer Remote SYSTEM Exploit
322. | [8458] Apache Geronimo <= 2.1.3 - Multiple Directory Traversal Vulnerabilities
323. | [5330] Apache 2.0 mod_jk2 2.0.2 - Remote Buffer Overflow Exploit (win32)
324. | [3996] Apache 2.0.58 mod_rewrite Remote Overflow Exploit (win2k3)
325. | [2237] Apache < 1.3.37, 2.0.59, 2.2.3 (mod_rewrite) Remote Overflow PoC
326. | [1056] Apache <= 2.0.49 Arbitrary Long HTTP Headers Denial of Service
327. | [855] Apache <= 2.0.52 HTTP GET request Denial of Service Exploit
328. | [132] Apache 1.3.x - 2.0.48 - mod_userdir Remote Users Disclosure Exploit
329. | [38] Apache <= 2.0.45 APR Remote Exploit -Apache-Knacker.pl
330. | [34] Webfroot Shoutbox < 2.32 (Apache) Remote Exploit
331. | [11] Apache <= 2.0.44 Linux Remote Denial of Service Exploit
332. | [9] Apache HTTP Server 2.x Memory Leak Exploit
333. |
334. | OpenVAS (Nessus) - <http://www.openvas.org>:
335. | [855524] Solaris Update for Apache 2 120544-14
336. | [855077] Solaris Update for Apache 2 120543-14
337. | [100858] Apache 'mod_proxy_http' 2.2.9 for Unix Timeout Handling Information Disclosure Vulnerability
338. | [72626] Debian Security Advisory DSA 2579-1 (apache2)
339. | [71551] Gentoo Security Advisory GLSA 201206-25 (apache)
340. | [71550] Gentoo Security Advisory GLSA 201206-24 (apache tomcat)
341. | [71485] Debian Security Advisory DSA 2506-1 (libapache-mod-security)
342. | [71256] Debian Security Advisory DSA 2452-1 (apache2)
343. | [71238] Debian Security Advisory DSA 2436-1 (libapache2-mod-fcgid)
344. | [70724] Debian Security Advisory DSA 2405-1 (apache2)
345. | [70235] Debian Security Advisory DSA 2298-2 (apache2)
346. | [70233] Debian Security Advisory DSA 2298-1 (apache2)
347. | [69988] Debian Security Advisory DSA 2279-1 (libapache2-mod-authnz-external)
348. | [69338] Debian Security Advisory DSA 2202-1 (apache2)
349. | [65131] SLES9: Security update for Apache 2 oes/CORE
350. | [64426] Gentoo Security Advisory GLSA 200907-04 (apache)
351. | [61381] Gentoo Security Advisory GLSA 200807-06 (apache)
352. | [60582] Gentoo Security Advisory GLSA 200803-19 (apache)
353. | [58745] Gentoo Security Advisory GLSA 200711-06 (apache)
354. | [57851] Gentoo Security Advisory GLSA 200608-01 (apache)
355. | [56246] Gentoo Security Advisory GLSA 200602-03 (Apache)
356. | [55392] Gentoo Security Advisory GLSA 200509-12 (Apache)

357. | [55129] Gentoo Security Advisory GLSA 200508-15 (apache)
358. | [54739] Gentoo Security Advisory GLSA 200411-18 (apache)
359. | [54724] Gentoo Security Advisory GLSA 200411-03 (apache)
360. | [54712] Gentoo Security Advisory GLSA 200410-21 (apache)
361. | [54689] Gentoo Security Advisory GLSA 200409-33 (net=www/apache)
362. | [54677] Gentoo Security Advisory GLSA 200409-21 (apache)
363. | [54610] Gentoo Security Advisory GLSA 200407-03 (Apache)
364. | [54601] Gentoo Security Advisory GLSA 200406-16 (Apache)
365. | [54590] Gentoo Security Advisory GLSA 200406-05 (Apache)
366. | [54582] Gentoo Security Advisory GLSA 200405-22 (Apache)
367. | [54529] Gentoo Security Advisory GLSA 200403-04 (Apache)
368. | [54499] Gentoo Security Advisory GLSA 200310-04 (Apache)
369. | [54498] Gentoo Security Advisory GLSA 200310-03 (Apache)
370. | [11092] Apache 2.0.39 Win32 directory traversal
371. | [66081] SLES11: Security update for Apache 2
372. | [66074] SLES10: Security update for Apache 2
373. | [66070] SLES9: Security update for Apache 2
374. | [65893] SLES10: Security update for Apache 2
375. | [65888] SLES10: Security update for Apache 2
376. | [65510] SLES9: Security update for Apache 2
377. | [65249] SLES9: Security update for Apache 2
378. | [65230] SLES9: Security update for Apache 2
379. | [65228] SLES9: Security update for Apache 2
380. | [65207] SLES9: Security update for Apache 2
381. | [65136] SLES9: Security update for Apache 2
382. | [65017] SLES9: Security update for Apache 2
383. |
384. | SecurityTracker - <https://www.securitytracker.com>:
385. | [1008196] Apache 2.x on Windows May Return Unexpected Files For URLs Ending With Certain Characters
386. | [1007143] Apache 2.0 Web Server May Use a Weaker Encryption Implementation Than Specified in Some Cases
387. | [1006444] Apache 2.0 Web Server Line Feed Buffer Allocation Flaw Lets Remote Users Deny Service
388. | [1005963] Apache Web Server 2.x Windows Device Access Flaw Lets Remote Users Crash the Server or Possibly Execute Arbitrary Code
389. | [1004770] Apache 2.x Web Server ap_log_error() Function May Disclose Full Installation Path to Remote Users
390. |
391. | OSVDB - <http://www.osvdb.org>:
392. | [20897] PHP w/ Apache 2 SAPI virtual() Function Unspecified INI Setting Disclosure
393. | **_**
394. | **_http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.2**
395. 3306/tcp open mysql?
396. | fingerprint-strings:
397. | NULL:
398. | **_** Host '192.168.56.3' is not allowed to connect to this MariaDB server
399. 1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at <https://nmap.org/cgi-bin/submit.cgi?new-service>:
:

400.SF-Port3306-TCP:V=7.92%I=7%D=6/15%Time=62A9D03C%P=x86_64-pc-linux-gnu%r(NU
401.SF:LL,4B,"G\0\0\x01\xffj\x04Host\x20'192\168\56\3'\x20is\x20not\x20allo
402.SF:wed\x20to\x20connect\x20to\x20this\x20MariaDB\x20server");
403.Service Info: Host: localhost

Resultados OWASP (ZAP) contra la página web 192.168.56.10

1. **X-Frame-Options Header Not Set** - esto permite clickjacking.
2. **Incomplete or No Cache-control Header Set** - afecta a como se puede cachear al información.
3. **X-Content-Type-Options Header Missing** - versiones antiguas de Internet Explorer y Google Chrome son las únicas que pueden afectar.

Resultados Sqlmap

[14:04:55] [INFO] testing connection to the target URL
got a 301 redirect to 'https://192.168.56.10:443/funcion.php?x=100'. Do you want to follow?
[Y/n] Y
[14:04:56] [INFO] testing if the target URL content is stable
[14:04:56] [WARNING] GET parameter 'x' does not appear to be dynamic
[14:04:56] [WARNING] heuristic (basic) test shows that GET parameter 'x' might not be injectable
[14:04:56] [INFO] testing for SQL injection on GET parameter 'x'
[14:04:56] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'
[14:04:59] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'
[14:04:59] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'
[14:05:01] [INFO] testing 'PostgreSQL AND error-based - WHERE or HAVING clause'
[14:05:01] [INFO] testing 'Microsoft SQL Server/Sybase AND error-based - WHERE or HAVING clause (IN)'
[14:05:02] [INFO] testing 'Oracle AND error-based - WHERE or HAVING clause (XMLType)'
[14:05:03] [INFO] testing 'Generic inline queries'
[14:05:03] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'
[14:05:04] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[14:05:06] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[14:05:06] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind (query SLEEP)'
[14:05:07] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'
[14:05:08] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'
[14:05:10] [INFO] testing 'Oracle AND time-based blind'
it is recommended to perform only basic UNION tests if there is not at least one other (potential) technique found. Do you want to reduce the number of requests? [Y/n] Y
[14:05:11] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'
[14:05:12] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find the right number of query columns. Automatically extending the range for current UNION query injection technique test
[14:05:15] [INFO] target URL appears to have 15 columns in query
[14:05:15] [WARNING] applying generic concatenation (CONCAT)
injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'? [Y/n] Y
[14:05:49] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g. '--dbms=mysql')

[14:05:54] [INFO] target URL appears to be UNION injectable with 3 columns
injection not exploitable with NULL values. Do you want to try with a random integer value
for option '--union-char'? [Y/n] Y

[14:06:09] [WARNING] GET parameter 'x' does not seem to be injectable

[14:06:09] **[CRITICAL] all tested parameters do not appear to be injectable.** Try to increase
values for '--level'/'--risk' options if you wish to perform more tests. If you suspect that there
is some kind of protection mechanism involved (e.g. WAF) maybe you could try to use option
'--tamper' (e.g. '--tamper=space2comment') and/or switch '--random-agent'

Resultados Apache Benchmarking

4. Usar https no permite medirlo porque requiere certificados y por lo tanto no termina
el handshake. Ahora, haciéndolo con http nos sale que puede tolerar poco menos de
553876 peticiones conexiones antes de caer:

Server Software: Apache/2.4.52
Server Hostname: 192.168.56.10
Server Port: 80

Document Path: /index.html
Document Length: 347 bytes

Concurrency Level: 1000
Time taken for tests: 100.000 seconds
Complete requests: 553876
Failed requests: 0
Non-2xx responses: 553876
Total transferred: 336202732 bytes
HTML transferred: 192194972 bytes
Requests per second: 5538.75 [#/sec] (mean)
Time per request: 180.546 [ms] (mean)
Time per request: 0.181 [ms] (mean, across all concurrent requests)
Transfer rate: 3283.22 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	136 1003.7	16	31569
Processing:	2	39 180.3	24	5562
Waiting:	0	30 135.5	21	5542
Total:	3	175 1027.2	41	31610

Percentage of the requests served within a certain time (ms)

50%	41
66%	47
75%	51
80%	54
90%	70
95%	1057
98%	1132
99%	3088
100%	31610 (longest request)

19. Medidas específicas de corrección

pfSense1 (#R1):

1. Necesitamos los puertos 80 y 443 abiertos por el lado de LAN (evitar que se bloquee acceso al firewall desde dentro), por lo que no podemos cerrarlos desde allá.
2. **CVE-2020-26147, CVE-2020-24588, CVE-2020-26144**, los tres se ven mitigados por el uso de encriptación de aplicación HTTPS y las encriptaciones a nivel de transporte como puede ser una VPN, y además nuestra versión ya está parcheada, por lo que no es necesario resolverlo
3. **CVE-2022-0778**: este bucle infinito generaría una denegación de servicio importante frente a alguien enviando un certificado erróneo a propósito, algo bastante fácil de hacer y muy común. Afortunadamente, nuestra versión descargada es de comienzos de Junio de 2022 y ya tiene el parche del 15 de Marzo que lo resuelve, por lo que no requiere actualización.
4. **CVE-2022-23084, CVE-2022-23085** no solo nuestra instalación es por defecto (que carece de esa configuración que permite al proceso vulnerar el nivel de privilegios), sino que el parche se sacó a comienzos de Abril, y nuestro Firewall es posterior a eso.
5. **CVE-2022-23088**: este firewall rara vez actuaría como cliente en una comunicación wireless, es mucho más probable que actúe como servidor, Además, se ve mitigado por el hecho de que en la red real nuestro router no estaría empleando Wi-fi sino se comunicaría por red cableada, y arreglado porque el parche ya se encuentra instalado (se publicó durante la primera semana de Abril de 2022).
6. **CVE-2022-23086** nuestro pfSense está actualizado a una versión donde se arregló esa vulnerabilidad, por lo que ya no se requiere parchearla.
7. **CVE-2021-29632** nuestro pfSense de la empresa ya está actualizado a una versión donde se arregló esa inestabilidad del sistema, por lo que ya no se requiere parchearla.
8. **Cookie without SameSite Attribute**: se recomienda que para cookies el SameSite sea "lax" o (mejor aún) "strict". El impacto es bastante bajo según OWASP, así que podemos no resolverla.

pfSense2 (#R2):

1. Necesitamos los puertos 80 y 443 abiertos por el lado de LAN (evitar que se bloquee acceso al firewall desde dentro), por lo que no podemos cerrarlos desde allá.
2. **53/tcp open domain Unbound** -> Nuestra empresa no necesita que se empleen servicios DNS de momento, pero este es el firewall de un cliente en edificio remoto que a lo mejor sí necesite el uso de DNS para la vida cotidiana. Además, en la red real es muy probable que acabásemos utilizando DNS de todas formas.
3. **CVE-2020-26147, CVE-2020-24588, CVE-2020-26144**, los tres se ven mitigados por el uso de encriptación HTTPS, y además nuestra versión ya está parcheada, por lo que no es prioritario resolverlo.
4. **CVE-2022-0778**: este bucle infinito genera una denegación de servicio importante frente a alguien enviando un certificado erróneo a propósito, algo bastante fácil de hacer y muy común. Esta versión de FreeBSD fue descargada meses antes de que se parcheara. -> Se requiere actualización
5. **CVE-2022-23084, CVE-2022-23085** nuestra instalación es por defecto, por lo que carece de esa configuración que permite al proceso de la jaula influenciar el entorno del huésped.
6. **CVE-2022-23088**: esto en sí no afectaría demasiado al firewall ya que normalmente no actuaría como cliente salvo en su parte WAN (que es posible que fuera alámbrica), pero sí es importante ya que en la red real al menos uno de los lados (la LAN) debe

estar empleando Wireless 802.11 de acuerdo al enunciado del proyecto, lo que podría suponer una gran probabilidad de alguien infectando el firewall y provocando que reenviara paquetes a otro lugar, incluso de una VPN (aunque llegara encriptado al atacante). Lo que es más importante, esta versión del firewall no posee el parche que lo resuelve instalado, por lo que es imperativo actualizar.

7. **CVE-2022-23086** este pfSense no posee el parche por lo que frente a algún administrador corrupto introduciendo discos adicionales (o incluso algo como un Rubber Ducky pero para hacer creer que es una unidad de disco), se recomienda actualizar a la versión 12.2 o 12.3 más reciente (o remover todos los periféricos que no sean usados para conexión alámbrica o inalámbrica y puedan usarse para introducir unidades de almacenamiento), aunque este evento sea poco probable.
8. **CVE-2021-29632** nuestro pfSense remoto ya está actualizado a una versión donde se arregló esa inestabilidad del sistema, por lo que ya no se requiere parchearla. De hecho, se parcheó mucho antes que la versión 13.0 STABLE.
9. **[CVE-2012-1192]** de esta vulnerabilidad detectada por vulscan podría ocurrir realmente ya que el cliente si está utilizando el Unbound para el DNS, y ya que no estamos completamente seguros de que esté parcheada en la versión 2.5.2 de pfSense, recomendamos que se actualice a una versión más reciente.
10. **Cookie without SameSite Attribute:** se recomienda que para cookies el SameSite sea "lax" o (mejor aún) "strict". El impacto es bastante bajo, así que podemos no resolverla.

ClienteRemoto (#LANB1):

1. **Microsoft Windows RPC:** las interfaces MSRPC pueden usarse por un atacante para recolectar información importante y comprometer servidores (p.ej. robar la contraseña de la VPN y colarse). Aunque esto se suele parchear protegiendo el firewall/actualizando las medidas de seguridad, ya que Windows 7 ya no recibe actualizaciones, se deberían cerrar los puertos 135, 49152, 49153, 49154, 49155, 49156 y 49157, incluso aunque suponga una ligera reducción de la funcionalidad.
2. **5357/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)** -> 1º el cliente que sepamos no necesita esto. 2º ese puerto y su servicio relacionado son propensos a fugas de información que permiten acceso remoto no autorizado, no solo en Windows 10, por lo que este servicio debe de ser cerrado si no se usa. Una forma de corregirlo es mediante la edición del registro.
3. **139/tcp open netbios-ssn Microsoft Windows netbios-ssn** -> Servicio empleado por RPC, si es posible debería cerrarse el puerto.
4. **445/tcp open microsoft-ds Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds** (workgroup: WORKGROUP) -> Nuestro cliente remoto se supone que no debe tener un "grupo de trabajo" fuera de acceder a nuestra VPN. Cerrar puerto si es posible.
5. Hay muchas aplicaciones que Microsoft Windows 7 tiene instaladas por defecto y no permite desinstalar fácilmente, así que cualquier vulnerabilidad relacionada con dichas aplicaciones no puede corregirse mediante la eliminación de la aplicación (p.ej. Internet Explorer). Esto se vuelve aún más complicado cuándo Windows 7 perdió el soporte, así que a veces hay que tomar medidas más extremas como deshabilitar servicios, puertos o aplicaciones. Por otra parte, este es el ordenador de un cliente, no deberíamos realmente alterarlos demasiado ya que pueden ser usado para otros propósitos, a menos que la vulnerabilidad sea importante. Por lo tanto hay que hallar un equilibrio. En nuestro caso ha sido permitir cosas del DNS pero no situaciones de puertos abiertos extraños sin motivo.

Servidor (#LANB2):

1. **5357/tcp open http** Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP) -> 1º es una versión más antigua de HTTP que la empleada para la versión actual de nuestro servidor, que solo debe hacer lo mínimo pedido. 2º ese puerto y su servicio relacionado son propensos a fugas de información que permiten acceso remoto no autorizado, por lo que debe de ser cerrado si no se usa. 3º No está en uso. Todas estas razones son más que suficientes para corregirlas
2. **mod_sed: Read/write beyond bounds** ([CVE-2022-23943](#)) es una vulnerabilidad importante que permite reescribir memoria heap con código del atacante, debe ser solucionado -> *La solución más fácil es actualizar Apache a su última versión.*
3. **HTTP request smuggling vulnerability in Apache HTTP Server 2.4.52 and earlier** ([CVE-2022-22720](#)) una vulnerabilidad importante por la que el Apache falla en cerrar conexiones entrantes frente a fallos, descarta el cuerpo y permite robar datos por http request. -> *La solución más fácil es actualizar Apache a su última versión.*
4. **mod_proxy_ajp: Possible request smuggling** ([CVE-2022-26377](#)) una vulnerabilidad de nivel medio en el mod_proxy_ajp permite a un atacante robar requests del servidor AJP . Aunque nosotros no estamos empleando ningún proxy, así que en nuestro caso no tiene tanta importancia. Aún así por si acaso se recomienda actualizar el Apache a la última versión.
5. **Windows 10 permite extraer las contraseñas con hash de NTLM de todas las cuentas de un dispositivo debido a políticas demasiado permisivas** ([CVE-2021-36934](#)) esto es grave porque permite a cualquier usuario que ejecuta código local o remotamente acceder a bases de datos y registros sin necesidad de permisos. Esta vulnerabilidad está presente a partir de la versión 1809 de Windows 10, pero afortunadamente se remedió/parcheó en Agosto del 2021, así que la solución sería actualizar a la última versión de Windows, y si no, vernos forzados a mitigarlo según las indicaciones de Microsoft y limitar el acceso a ese archivo (Microsoft, 2021).

Restrict access to the contents of %windir%\system32\config

Command Prompt (Run as administrator): `icacls %windir%\system32\config*.*/inheritance:e`

Windows PowerShell (Run as administrator): `icacls $env:windir\system32\config*.*/inheritance:e`

Delete Volume Shadow Copy Service (VSS) shadow copies

- Delete any System Restore points and Shadow volumes that existed prior to restricting access to %windir%\system32\config.
- Create a new System Restore point (if desired).

Un efecto secundario de la actualización es que también resuelve otra vulnerabilidad, y ahora se necesitará ser administrador para instalar controladores de "Point and Print".

6. **Windows 10 antes del 9-11-2021 permitía a Windows Installer subir de privilegios y poder borrar cualquier archivo - aunque no permitía al usuario verlos ni modificarlos** ([CVE-2021-41379](#)) cualquiera que pudiera acceder a nuestro servidor directamente

podría ejecutar esto y borrar elementos clave de nuestro servicio o del sistema, aunque no se permita acceso normalmente a nuestro servidor, mejor solucionarlo. Afortunadamente esto se puede resolver con una actualización.

7. **AV1 Video Extension Remote Code Execution Vulnerability ([CVE-2022-30193](#))** esta vulnerabilidad provoca que se ejecute código arbitrario, pero solo afecta si se descarga código remoto de una página web y si se posee la extensión de vídeo AV1 no parcheada integrada como aplicación de Microsoft Store. Afortunadamente nuestro Windows 10 no posee dicha extensión, y de hecho habíamos borrado otras similares antes de comenzar a evaluar esta parte, y como al actualizar si se fuera a instalar, ya sería la versión parcheada, esta vulnerabilidad tiene baja o nula prioridad para nosotros.
8. **Windows SMB Denial of Service Vulnerability ([CVE-2022-32230](#))** este ataque de denegación de servicio se basa en desestabilizar el Windows 10 para que crashee; se detectó en Junio de 2022 recientemente, aunque el equipo de Microsoft asegura que ya tienen el parche. Como esto supone un arreglo en la estabilidad del sistema, sería recomendable actualizar nuestro Windows 10.
9. **Microsoft Windows Support Diagnostic Tool (MSDT) Remote Code Execution Vulnerability ([CVE-2022-30190](#))** cuando la herramienta de diagnóstico de Windows es llamada mediante una URL en una aplicación como Microsoft Word, se puede ejecutar código arbitrario y de ahí instalar, ver, modificar o borrar datos y aplicaciones con los permisos con los que se ejecutó la aplicación que tenía la URL. Aunque esto debería ser poco común ya que nuestro servidor no se supone que deba estar yendo a URLs externas ni tampoco tiene Microsoft Word, sí podría explotarse desde la red local quizá mediante otros editores de texto pre-instalados. Una buena opción sería actualizar ya que esto ya se encuentra parchado en versiones de Windows desde Junio de 2022, aunque viendo todas las vulnerabilidades que están apareciendo, si tuviéramos más tiempo a lo mejor rentaría pasar a un Sistema Operativo con menos funcionalidades y fisuras.
10. **Windows Hyper-V Remote Code Execution Vulnerability ([CVE-2022-30163](#))** Si el atacante gana una condición de carrera en una máquina huésped, no importa que sea una máquina virtual sin privilegios, una aplicación específicamente diseñada puede hacer que la máquina huésped ejecute código desde la máquina virtual, saltándose el propósito por el cuál existen máquinas virtuales para hacer pruebas de seguridad. Afortunadamente para nosotros, aparentemente el esfuerzo necesario es alto, aún no se ha probado en la práctica (lo que no quiere decir que no haya algún agente con este código) y ya existe un posible parche, por lo que una actualización a la nueva versión parcheada es tremendamente recomendable. Pero aún así que este exploit fuera remotamente posible pone muchas banderas rojas y si se probase que se puede hacer recomendaríamos encarecidamente deshabilitar Hiper-V y recurrir a otros servicios de virtualización.
11. Aunque el servidor rara vez use Firefox excepto para conectarse a la configuración del router si requiere, Firefox, como cualquier aplicación, es recomendable actualizarlo para asegurarse de mantener la máxima compatibilidad con nuevas funcionalidades, además de resolver cualquier nuevo fallo de seguridad detectado.
12. **([CVE-2022-29376](#)) Xampp para Windows v8.1.4 y más antiguos permite ejecutar código malicioso ya que su directorio de instalación no está protegido adecuadamente.** En caso de éxito tiene muy gran alcance, podrían incluso suplantar el programa. Y en este caso tiene un fácil remedio que hará este intento de intrusión más difícil sin necesidad de actualizar: haciendo que todas las carpetas y subcarpetas del XAMPP con ejecutables y binarios sean de solo lectura excepto administradores.

13. Hay muchas aplicaciones que Microsoft Windows 10 tiene instaladas por defecto y no permite desinstalar fácilmente, así que cualquier vulnerabilidad relacionada con dichas aplicaciones no puede corregirse mediante la eliminación de la aplicación, como mucho la actualización del sistema
14. La mayoría de vulnerabilidades detectadas por vulscan (menos las marcadas en negrita) ya han sido parcheadas oficialmente o las hemos comprobado manualmente nosotros y no suceden ya o no aplican. Por lo tanto no requieren ser corregidas por nuestra parte. **La excepción es la denegación de servicio**, la cual esperamos sea mitigada mediante el uso de la VPN y la inhabilidad de acceder al servidor de la BBDD y página web desde el exterior sin la VPN
15. Las marcadas con negrita de la parte del nmap con vulscan se esperan resolver con actualización a la última versión de Apache
16. El Sqlmap ha detectado que nuestro servidor va a ser difícilmente vulnerable a ataques de SQL injection, pero por si acaso podemos limitar el acceso de éste hacia fuera para que solo sea accesible desde la VPN y la LAN de la empresa.
17. **X-Frame-Options Header Not Set** - el clickjacking puede ser un problema importante en mensajería, así que aunque la VPN pueda minimizar su probabilidad frente ataques externos, para evitar Clickjacking hemos incluido al final del httpd.conf la línea «Header set X-Frame-Options: "DENY"», lo cual impide que se pueda embeber nuestra página en otra.
18. **Incomplete or No Cache-control Header Set** - afecta a como se puede cachear al información. La vulnerabilidad es de muy bajo riesgo así que podemos ignorarla.
19. **X-Content-Type-Options Header Missing** - versiones antiguas de Internet Explorer y Google Chrome son las únicas que pueden afectar, y el impacto es bajo así que podemos permitirnos ignorarla.

20. Recomendaciones sobre implantación de medidas preventivas.

Entrenar a nuestros trabajadores en medidas de seguridad, entre ellas no dejar la contraseña de usuario por ahí ni dejarla grabada, tratar de mantener su SW y HW actualizado, no hablar de los clientes públicamente ni de nada relacionado con la seguridad (nada fuera del entorno laboral), y tener mucho cuidado con la instalación de SW de terceros, a ser posible no instalarlo (pues, por ejemplo, en servicios de mensajería y especialmente en servicios móviles, los mensajes enviados se suelen guardar en una base de datos local del dispositivo que, dependiendo del algoritmo de cifrado empleado, podría ser descifrado). Esta última medida debería ser notificada a nuestros clientes también para que tengan cuidado en las redes móviles.

En cuanto a los dispositivos móviles, recomendamos tanto a trabajadores como a nuestros clientes que se sigan algunos de los preceptos de seguridad en dispositivos móviles de mensajería instantánea (Centro Criptológico Nacional, 2021):

1. *Mantener el teléfono bloqueado. De esta forma, se reducirá el riesgo si el dispositivo cae en las manos equivocadas.*
2. *Sería recomendable eliminar las previsualizaciones de los mensajes y extremar las medidas cuando no se disponga del teléfono al alcance.*
3. *En la medida de lo posible, se recomienda la configuración de las aplicaciones para solo recibir mensajes de personas autorizadas.*

4. *Desactivar la conectividad adicional del teléfono cuando no se vaya a utilizar, como podría ser la conexión WiFi o Bluetooth, ya que además de reducir el consumo de batería, reduce la posible superficie de ataque sobre el dispositivo.*
5. *Utilizar aplicaciones de mensajería instantánea cuyo código fuente esté abierto a la comunidad y haya sido revisado. En ese sentido existen alternativas que, además, aseguran la confidencialidad en las comunicaciones, cifrando el tráfico extremo a extremo (e2e).*

Además, usaríamos la mejor encriptación wireless (WPA3 por el momento), y los dispositivos móviles deberían tener una doble verificación de sistema biométrico y contraseña, y no estar rooteados. De hecho para mayor seguridad los móviles corporativos deberían resetearse cada mes para asegurarse de que no están rooteados.

Dejar los sistemas cerrados bajo llave (contraseña electrónica y llave física) dentro de una habitación con sistema de refrigeración y medidas anti-incendios, y filtros de aire (más una cámara de presión positiva) para prevenir polvo e insectos dentro de la cámara, con una trampa de luz ultravioleta para eliminar cualquier posible insecto que se cuele. El servidor debería estar desplegado en el edificio de la empresa, para mayor seguridad. Y tener cámaras con reconocimiento facial y otros métodos de seguridad biométrica.

También deberíamos añadir redundancias como medida extra en caso de caída o fallo (p. ej. backup de la BBDD, múltiples switches, generadores de emergencia) pero no lo hemos implementado porque o bien no se podían simular en máquina virtual, o se podrían simular pero a riesgo de falta de memoria (p.ej: un ordenador teniendo que soportar la red básica más los backups).

El control de acceso debería ser distribuido, de tal forma que dar privilegios más altos a alguien requiera de la colaboración de todos los administradores, para complicar la corrupción permitiendo accesos maliciosos al sistema.

Además como protección extra frente a alguien logrando robar credenciales de la VPN y acceder, deberíamos añadir un segundo firewall detrás del primero para evitar que alguien empleara el servicio VPN para mandar paquetes a servicios previamente inaccesibles; pero no lo hemos resuelto porque nos han pedido no alterar la infraestructura.

Por último, y tras haber realizado los apartados anteriores de la auditoría, recomendaríamos pasar el servidor a un Sistema Operativo más sencillo, robusto, con menos vulnerabilidades y centrado solo en BBDD y mensajería, como alguna versión de Linux.

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ANEXOS

1. Problemas de compatibilidad con el Software de Google Drive

Hemos estado editando el documento en Google Drive para edición simultánea, eso puede haber causado que el sistema de citas e imágenes haya dejado de funcionar apropiadamente.

2. Dificultades sobre subida de máquinas virtuales

Hemos sufrido diversos problemas a la hora de subir las máquinas virtuales y servicios virtualizados debido al límite de tamaño del archivo y tasa de transferencia y cuotas de transferencia diaria, tanto en Mega como Google Drive. Por ello, en el Windows 10 no hemos decidido subir una versión donde se corrige un error con un certificado (por algún motivo estaba corrupto y no permitía conectar a 192.168.56.10 porque “el certificado de 192.168.56.10 no es para el servidor 192.168.56.10, pero para el servidor 192.168.56.10” (a pesar de que ambos son el mismo nombre)). La solución correcta es simplemente reemplazar el 192.168.56.10 de Windows 10 C:/seguro/192.168.56.10.crt por el del Github/Pagina Web