GREENE COUNTY INFORMATION TECHNOLOGY 2018 ANNUAL REPORT TO THE GREENE COUNTY LEGISLATURE

Greene County Information Technology
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Prepared: April 2019 By: John K. Wynne - Director

2019 in a word "Challenging"

As the Information Technology world changes constantly, it has become more important than ever to stay ahead of the challenges of increasing demand and the threats to our networks and data.

2019 saw a definite increase in the threats and concurrently our vigilance increased. With state of the art defenses and training of staff, we met the Challenges.

We have installed network defenses, built alliances with cybersecurity experts and constantly monitored our networks and resources. I anticipate that the demands of cybersecurity will continue to rise for the foreseeable future.

Along with protecting our IT assets, we are constantly improving the network resources and access to them. We have upgraded our Networks with all new fiber backbone, managed network switches and Layer 3 core switches.

Mission Statement

Information Technology is a crucial component of modern government. As a support element for service delivery in County government, information technology is increasingly the vehicle of choice for direct delivery of County services and information to our workers and Citizens.

The mission of Greene County Information Technology is to provide reliable and responsive information technology services, applications services, Web resources, infrastructure and data center services to Greene County departments and agencies.

Technical Vision Statement

Deliver easy to use internet applications to make information more accessible to citizens and all stakeholders in Greene County.

Provide growth on Microsoft, Linux and SQL based technologies and first rate support on existing systems.

Continually enhance network and application security to protect Greene County Information Assets.

Enable business continuity by delivering networking and server technologies which provide redundancy, availability, speed, reliability and flexibility.

Utilize technologies incorporating data, images, internet, documents, mapping and business processes to promote enterprise solutions and enhance department and agency communication and collaboration.

Information Technology Staff in 2018

The IT staff in Greene County has remained unchanged through all of 2018

John Wynne – Director – has been with Greene County for 16 years as Director of Information Technology.

Previous experience – Owner of Columbia-Greene Systems for 14 years. Began in Computer Industry career in 1981 with CPI, Computer Professionals International.

Serves of the Board of Directors of New York State Local Government IT Directors Association where he also serves as Vendor Coordinator working directly with Computer industry leaders including, Cisco, Microsoft, AT&T, Verizon, IBM to name a few.

Has served on numerous Board of Directors including New York State Office of Critical Infrastructute and Cyber Security and the NYS IT Leadership Academy as NYS Local Government IT Liaison.

Other positions in Greene County IT

Senior Systems Support Technician – has been with Greene County for 12 years. Previous experience Mid-Hudson Cablevision.

Network Engineer – Has been with Greene County for 4 ½ years. Previous experience New York State. Graduate of St. Lawrence University and ITT.

Systems Support Technician – Has been with Greene County for 1 ½ years. Previous experience IT Technical Support for Columbia Memorial Hospital for 18 years.

2018 Projects

Move of Greene County Sheriff Civil Office to 411 Main Street

Planned and began move of Sheriff Office to Mansion Street in Coxsackie

Consolidated 4 phone systems into one VOIP system located at 411 Main Street. Makes for more efficient management of phones and 4 digit dialing to any phone on the system.

Installed VOIP Phone systems throughout solid waste transfer stations.

Integrated the WAN - Wide area network throughout Greene County Buildings

Installed and supported installation of automated systems point of sale and scale systems in all Solid Waste transfer stations.

Began a vital relationships with Multi-State ISAC, NYBOE ISAC and Center for Cybersecurity CSIC, all leaders in the Cyber Security world. With their combined abilities and services we receive guidance and advice to protect our interests on a very regular basis.

Replace all workstations in Board of Elections.

Upgraded 60+ workstations and Operating Systems.

Completed migrations of GreeneOne Network to current Windows servers. Installed and migrated to three Domain Controllers, Application Server and Active Directory.

Major Project Completed in 2018
Greene County IT – Computer Professionals – Veeam
Complete Backup Solution

Working with CPI-Computer Professionals International we installed a comprehensive Veeam Backup system with Backup servers in both Catskill and Cairo. Each server replicates to the other. All County wide and departmental servers are backed up on a daily basis. 14 days of backups are retained. With this system we can restore single files, complete servers or even all servers.

To assure the ability to restore in the event of a disaster we can restore all data and services to new hardware or even to the Cloud using Microsoft Azure.

With the Veeam Backup System our data has never been more protected.

This project was completed using grant funding.

GREENE COUNTY



PROJECT: VEEAM BACKUP

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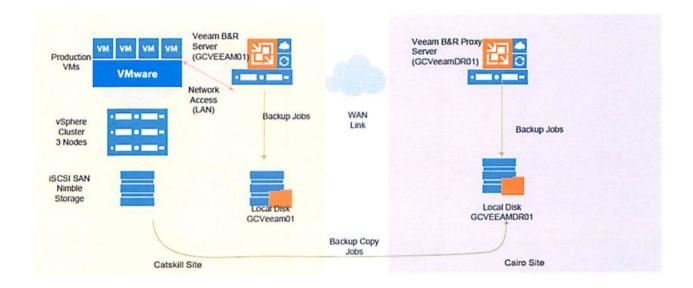
OVERVIEW

Greene County engaged Computer Professionals International to implement a backup solution utilizing Veeam Backup and Replication. Veeam was setup at the Catskill datacenter for local backups and copy jobs were configured to copy the backup data to the Cairo datacenter.

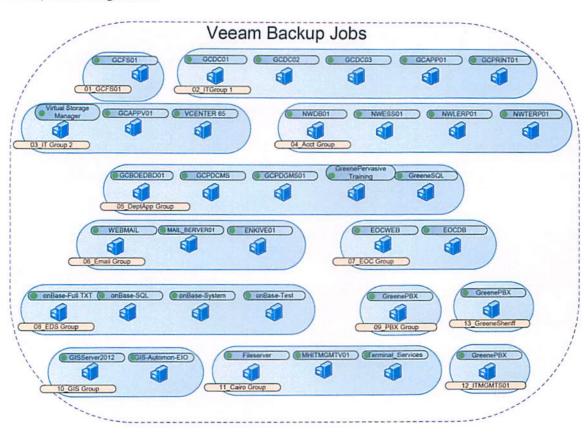
BACKUP AND REPLICATION

Backup was configured using Veeam Backup and Replication to backup the VMs in the VMware environment. Additionally 2 Windows agents are used to backup the physical machines ITMGMTS01 and GreeneSheriff

GCVeeam01 server setup:



Backup Job Configuration





- Storage target is local disk on GCVeeam01 for jobs 1-10
- Storage target is local disk on GCVeeamDR01 for jobs 11-13
- Incremental backups with Synthetic full on Saturday
- Application aware processing

Copy Jobs



- Storage target is local dis on GCVEEAMDR01 for jobs 1-11
- Storage target is local disk on GCVeeam01 for jobs 12-13
- o Job monitors continuously and looks for new backup files to copy

Planned Projects for 2019

Complete move of Sheriff Administration to Mansion St. Coxsackie location. Sheriff administration has been moved successfully.

Complete move of Sheriff Jail to Mansion St. Coxsackie

Install a more robust network monitoring system to allow efficient management of network switches. We are looking a Solarwinds, Open manage and Auvik and hope to make a decision and begin implementation soon.

Migrate Microsoft Windows 7 operating system computers to Window 10, since Microsoft has announced end of support for 2020.

Through planned replenishment we will be replacing 60-80 computer systems in 2019

Considering managed print services to maintain supplies and repairs of printers and copiers on a more efficient and unified platform. In 2018 we looked at with a vendor and found it too costly. This year we will be working with another vendor whose solutions seems to be a better fit.

As series of reports follows.

Again, thank you for your support of Greene County Information Technology.

John K. Wynne Director



Displays a summary of all assets for each client, followed by detailed lists grouped by each device type.

March 25, 2019



Greene County Information Technology

Address:

411 Main Street,

Catskill, NY 12414

Country:

USA

Phone:

518-719-3260

Fax:

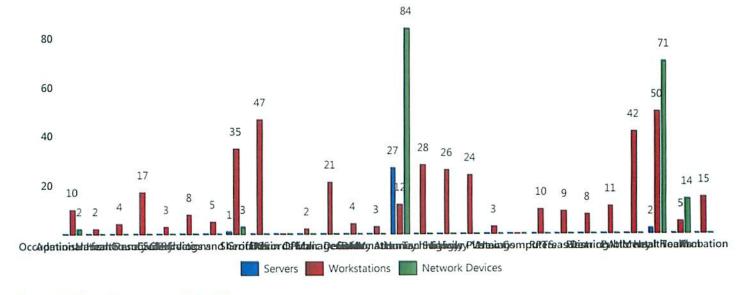
Locations:

26

Asset Analysis

Servers	Workstations	Network Devices
30	404	174
	Windows	Other
Servers	30	0
Workstations	404	0

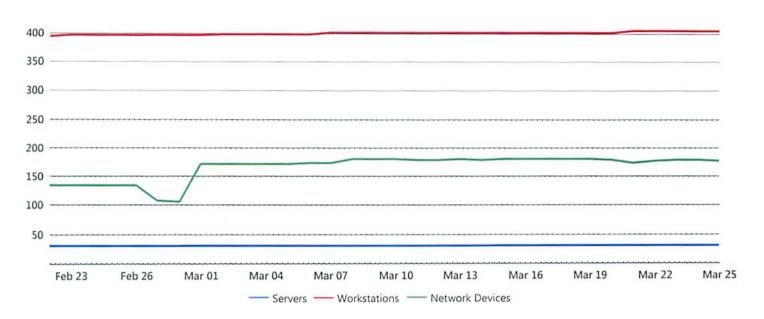
Devices By Location



Asset Deployment History

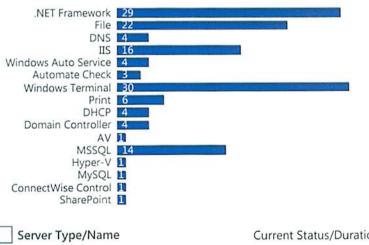
March 25, 2019





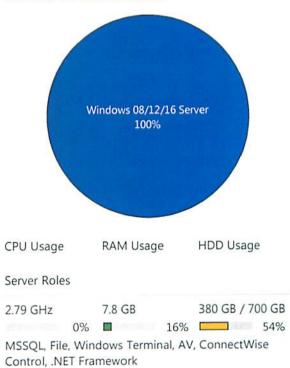
Server Assets

Server Roles





Server Architecture





Server Type/Name	Curr OS	ent Status/Duration Local IP	CPU Usage	RAM Usage	HDD Usage	
Manufacturer/Model	03	Local II	Server Roles			
GCAPP01		Running for 9d 3h	2.79 GHz	8 GB	43 GB / 460 GB	
Information Technology	Windows Server 2016 Standard x64 x64	192.168.0.195	1 2%	80%	9%	
VMware, Inc. VMware Virtual P	latform		5.24 B	Windows Terminal ntrol, .NET Framew		
GCAPPV01		Running for 9d 5h	2.79 GHz	8 GB	49 GB / 324 GB	
Information Technology VMware, Inc. VMware Virtual P	Server 2008 R2 x64 latform	192.168.25.50	12 (See 8.2)	ndows Terminal, AV	■ 15% , ConnectWise	
GCBDC01		Running for 9d 5h	2.79 GHz	4 GB	43 GB / 100 GB	
	Server 2008 R2 x64	192.168.25.11		78%		
VMware, Inc. VMware Virtual P	latform			te Check, File, Wind ntrol, .NET Framew		
GCBOEDBS01		Running for 9d 3h	2.79 GHz	8 GB	32 GB / 80 GB	
Information Technology	Windows Server 2016 Standard x64 x64	192.168.0.226	0%	27%	40%	
VMware, Inc. VMware Virtual P			Windows Terminal, OS, AV, ConnectWise Control, .NET Framework			
GCDC01		Running for 9d 2h	2.79 GHz	4 GB	24 GB / 80 GB	
Information Technology	Windows Server 2016 Standard x64 x64	172.20.16.23	1 4%	62%	30%	
VMware, Inc. VMware Virtual P	1100		Terminal, DNS, D	ervice, File, DHCP, Domain Controller, ntrol, .NET Framew	OS, AV,	
GCDC02		Running for 9d 3h	2.79 GHz	4 GB	21 GB / 80 GB	
Information Technology	Windows Server 2016 Standard x64 x64	172.20.16.25	8%	60%	26%	
VMware, Inc. VMware Virtual P			Terminal, DNS, [ervice, File, DHCP, Domain Controller, Introl, .NET Framew	OS, AV,	
GCDC03		dunning for 69d 14h	2.6 GHz	8 GB	15 GB / 120 GB	
Information Technology	Server 2012 R2 x64	172.20.16.22	0%	26%		
VMware, Inc. VMware Virtual P	latform			Service, File, DHCP, Domain Controller,		



Server Type/Name	Cur OS	rent Status/Duration Local IP	CPU Usage	RAM Usage	HDD Usage	
Manufacturer/Model			Server Roles			
GCFS01 Information Technology	Windows Server 2016 Standard x64 x64	Running for 4h 17m 192.168.0.191	2.79 GHz 0%	8 GB 25%	2.27 TB / 2.84 TB 80%	
VMware, Inc. VMware Virtual Platform			IIS, File, Print, Windows Terminal, OS, AV, ConnectWise Control, .NET Framework			
GCMH-TS		Running for 9d 5h	2.79 GHz	32 GB	181 GB / 580 GB	
Mental Health VMware, Inc. VMware Virtual	Server 2008 R2 x64 Platform	192.166.200.102	MSSQL, IIS, Auto	15% omate Check, Wind ontrol, .NET Framew	ows Terminal, AV,	
GCPDCMS		Running for 5d 20h	2.79 GHz	6 GB	236 GB / 568 GB	
Information Technology	Windows Server 2016 Standard x64 x64	192.168.0.213	0%	43%	42%	
VMware, Inc. VMware Virtual Platform			MSSQL, File, Wir Control, .NET Fra	ndows Terminal, OS amework	5, AV, ConnectWise	
GCPRINT01		Running for 5d 20h	2.79 GHz	4 GB	30 GB / 80 GB	
Information Technology	Windows Server 2016 Standard x64 x64	192.168.0.162	1 2%	51%	38%	
VMware, Inc. VMware Virtual	Platform		Print, Windows Terminal, OS, AV, ConnectWise Control, .NET Framework			
GCVEEAM01		Running for 9d 2h	2.1 GHz	31.7 GB	17.52 TB / 36.38 TB	
Information Technology	Windows Server 2016 Standard x64 x64	172.20.16.30	1 2%	36%	48%	
HPE ProLiant DL380 Gen10			MSSQL, File, Wir Control, .NET Fra	ndows Terminal, OS amework	5, AV, ConnectWise	
GCVEEAMDR01		Running for 9d 3h	2.1 GHz	31.7 GB	6.96 TB / 36.38 TB	
Information Technology	Windows Server 2016 Standard x64 x64	172.17.0.162	1%	13%	19%	
HPE ProLiant DL380 Gen10			Windows Terminal, OS, AV, ConnectWise Control .NET Framework		tWise Control,	
GIS-SERVER	R	unning for 141d 18h	2.79 GHz	3.9 GB	660 GB / 820 GB	
Information Technology	Server 2003	192.168.0.218	1%	63%	80%	
VMware, Inc. VMware Virtual	Platform			Print, Windows Ter entrol, .NET Framew		



Server Type/Name Location Manufacturer/Model	OS	rent Status/Duration Local IP	CPU Usage Server Roles	RAM Usage	HDD Usage
GISSERVER2012 Information Technology VMware, Inc. VMware Virtual F	Server 2012 x64 Platform	Running for 9d 5h 192.168.0.167	IIS, Automate	8 GB 4% 51% • Check, File, Window Control, .NET Frame	
GREENE-NW-APP Information Technology VMware, Inc. VMware Virtual F	Server 2008 x64	192.168.25.34	20 - A	6 GB 0% 37% lows Terminal	116 GB / 350 GB
GREENESHERIFF Sheriff Dell PowerEdge T430	Server 2012 R2 x64	Running for 5d 0h 172.19.0.111	MSSQL, MySo Windows Aut	63.8 GB 1% 20% QL, IIS, SharePoint, Al to Service, File, DHCP S, Domain Controller Framework	utomate Check, , Print, Windows
ITMGMTS01 Information Technology Hewlett-Packard HP Compaq R	Server 2008 R2 x64	Running for 3d 19h 192.168.250.20		7.2 GB 5% 68% ile, Windows Termina Framework	
MHITMGMTV01 Information Technology VMware, Inc. VMware Virtual F	Server 2008 x64 Platform	Running for 9d 5h 172.17.0.235	1.5	12 GB 0% 20% dows Terminal, AV, Co	- 100
NWDB01 Information Technology	Windows Server 2016 Standard x64 x64	Running for 5d 20h 172.20.16.51	2.6 GHz	32 GB 1% 88%	184 GB / 1.09 TB 6 ■ 16%
VMware, Inc. VMware Virtual F	Platform		MSSQL, IIS, V Control, .NET	Vindows Terminal, OS Framework	S, AV, ConnectWise
NWESS01 Information Technology	Windows Server 2016 Standard x64 x64	Running for 9d 5h 172.20.16.50	2.6 GHz	8 GB 0% ■ 249	19 GB / 220 GB 6 9 %
VMware, Inc. VMware Virtual Platform			IIS, File, Windows Terminal, OS, AV, ConnectWise Control, .NET Framework		
NWLERP01 Information Technology	Windows Server 2016 Standard x64 x64	Running for 5d 20h 172.20.16.52	2.6 GHz	16 GB 29% 369	109 GB / 620 GB 6 1 8%
VMware, Inc. VMware Virtual F	and the second			, Windows Terminal, Control, .NET Frame	



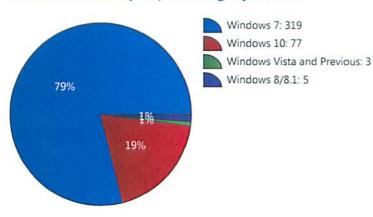
Server Type/Name Location Manufacturer/Model	Current Status/Duration DS Local IP	CPU Usage RAM Usage HDD Usage Server Roles
NWTERP01 Information Technology Windows 2016 Stanta x64		2.6 GHz 16 GB 34 GB / 220 GB 1% ■ 25% ■ 16%
VMware, Inc. VMware Virtual Platform		IIS, File, Windows Terminal, OS, AV, ConnectWise Control, .NET Framework
NYGREIQS Information Technology Server 201 Hewlett-Packard ProLiant DL380 Gen9	Running for 9d 5h 2 R2 x64 192.168.0.245	2.4 GHz 31.9 GB 304 GB / 1.36 TB 0% 32% 22% IIS, Hyper-V, File, Print, Windows Terminal, AV, ConnectWise Control, .NET Framework
Information Technology Server 200 VMware, Inc. VMware Virtual Platform	Disconnected for 97d 0h 8 x64 192.168.25.40	2.79 GHz 4 GB 90 GB / 350 GB 0% 47% 26% MSSQL, IIS, File, Print, Windows Terminal, AV, ConnectWise Control, .NET Framework
ONBASE-FULL-TXT Information Technology Server 201 VMware, Inc. VMware Virtual Platform	Running for 9d 5h 2 R2 x64 192.168.251.253	2.79 GHz 4 GB 31 GB / 100 GB 1 1% 46% 31% Windows Terminal, AV, ConnectWise Control, .NET Framework
ONBASE-SQL Information Technology Server 201 VMware, Inc. VMware Virtual Platform	Running for 9d 5h 2 R2 x64 192.168.251.216	2.79 GHz 4 GB 51 GB / 100 GB 48% 61% 51% MSSQL, IIS, File, Windows Terminal, AV, ConnectWise Control, .NET Framework
ONBASE-SYSTEM Information Technology Server 201 VMware, Inc. VMware Virtual Platform	Running for 9d 5h 2 R2 x64 192.168.251.247	2.79 GHz 4 GB 58 GB / 100 GB I 2% 48% 58% IIS, File, Windows Terminal, AV, ConnectWise Control, .NET Framework
ONBASE-TEST Information Technology Server 201 VMware, Inc. VMware Virtual Platform	Running for 9d 5h 2 R2 x64 192.168.251.251	2.79 GHz 4 GB 30 GB / 100 GB 9% 45% 30% MSSQL, Windows Terminal, AV, ConnectWise Control, .NET Framework

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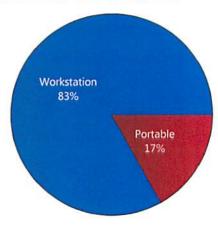


Workstation Assets

Workstations by Operating Systems



Workstation Form Factor



Workstation Type/Name	Current	t Status/Duration Local IP	CPU Usage	RAM Usage	HDD Usage
Manufacturer/Model			Assigned Contact	t	Date 1st OS Start
2008-80 Mental Health Dell OptiPlex 755	Disconr Windows 7 SP1	nected for 3d 17h 10.90.133.245	2.33 GHz 11% Unassigned	2 GB 68%	46 GB / 119 GB 39% 01-Aug-2013
ABENJAMINLEGGPC Human Services Hewlett-Packard HP ProDesk	Windows 7 SP1 x64	unning for 3d 3h 192.168.0.210	3.3 GHz 10% Unassigned	7.9 GB 24%	187 GB / 466 GB 40% 25-Feb-2016
ABLOCKHIGHWAYPC Highway Hewlett-Packard HP EliteDes	Windows 7 SP1 x64	172.18.0.34	3.5 GHz 6% Unassigned	6.9 GB 27%	271 GB / 464 GB 58% 14-Feb-2017
ACARR-PC County Clerk Hewlett-Packard HP Compag	Windows 7 SP1 x64	nning for 2d 16h 192.168.0.233	2.33 GHz 0% Unassigned	3.9 GB 35%	62 GB / 74 GB 83% 19-May-2014
ACHIRICOMHPC Mental Health Hewlett-Packard HP EliteDes	Windows 7 SP1 x64	unning for 3d 4h 192.166.201.95	3.5 GHz 2% Unassigned	6.9 GB 23%	375 GB / 931 GB 40% 06-May-2016
AFRISBEE-PC Probation Hewlett-Packard HP Pro 3500	Windows 7 SP1 x64	ning for 45d 15h 192.168.0.142	3.4 GHz 0% Unassigned	3.9 GB 59%	148 GB / 931 GB 16% 07-Jan-2013
AGINGCONFROOMPC Human Services Hewlett-Packard HP ProDesk	Windows 7 SP1 x64	ected for 157d 0h 192.168.251.26	3.3 GHz 0% Unassigned	7.9 GB 23%	155 GB / 466 GB 33% 17-Feb-2016
AGINGFRONTDESK1 Human Services Hewlett-Packard HP ProDesk	Windows 7 SP1 x64	nning for 9d 19h 192.168.251.52	3.3 GHz 1% Unassigned	7.9 GB 45%	191 GB / 466 GB 41% 10-Mar-2016



Antivirus Health

Displays the current health of managed antivirus scanners for each client.

Greene County Information Technology

Antivirus Health

Greene County Information Technology (March 25, 2019)



Client Antivirus Health

Antivirus Health History 100%



Healthy

Average Definition File Age

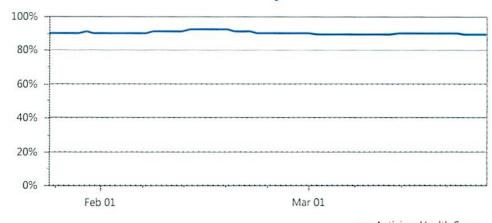
30 days

Total Managed Assets

434

Total Assets at Risk

91



- Antivirus Health Score

At-Risk Assets

Scanner Disabled

Location\Computer	Operating System	Antivirus Solution
Public Health\KMILLER-PC	Windows 7 Professional x64	ESET Endpoint Antivirus v6
☐ Probation VKOZLOSKI-PC	Windows 7 Professional x64	ESET Endpoint Antivirus v6
Public Health\HGARDEN-PC	Windows 7 Professional x64	ESET Endpoint Antivirus v6
Public Health\TSKINNER	Windows 7 Professional	ESET Endpoint Antivirus v6
Sheriff\SGTDSK02	Windows 7 Professional x64	ESET Endpoint Antivirus v6
Sheriff\GSEELEY-PC	Windows 7 Professional x64	ESET Endpoint Antivirus v6
Sheriff\GCSUSW01	Windows 7 Professional x64	ESET Endpoint Antivirus v6
Mental Health\KNELSONMHPC1	Windows 7 Professional x64	ESET Endpoint Antivirus v6
DSS\DDONOHUEDSSPC	Windows 7 Professional x64	ESET Endpoint Antivirus v6

Total At-Risk: 9

Scanner Missing

Location\Computer	Operating System	Date Added
☐ Information Technology\GIS-SERVER	Windows Server 2003 Standard Edition	23 May 17
Mental Health\FILESERVER	Windows Server 2003 R2 Enterprise Edition	15 Jun 17
■ Public Defender\PUBDEFLAPTOP2	Windows 7 Professional x64	26 Jun 17
☐ Sheriff\GCJCTRLW01	Windows 7 Professional	28 Jun 17
Public Health\PHLAPTOP200	Windows 7 Professional x64	19 Sep 17
Public Health\PHLAPTOP202	Windows 7 Professional x64	19 Sep 17
☐ Information Technology\GCDC03	Windows Server 2012 R2 Standard x64	26 Dec 17
Public Health\PHLAPTOP602	Windows 7 Professional x64	22 Aug 18
☐ DSS\GREENECPS-PC	Windows 7 Professional x64	08 Dec 18



Patch Compliance

Displays the patch compliance of your systems, and details each device and patch that is non-compliant.

Patch Compliance

Greene County Information Technology; March 25, 2019

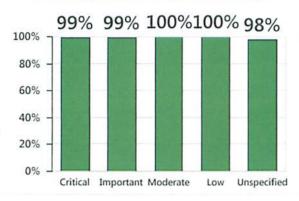


Patch Compliance

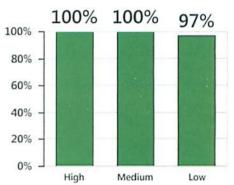
98.65%

Patch Compliance Calculation
52174 Installed / 52889 Approved
Total Managed Windows Assets
30 Servers / 403 Workstations

Compliance by Severity



Compliance by CVSS



Non-Compliant Devices

Location\Computer	Operating System	Patch Compliance	I/NA/F	Last Patched	Last Scanned	Patch Status
Human Services\AGINGSP2	Win 10 x64	0.0%	0/0/0	0001 Jan 01	2017 Aug 17	Outdated Inventory Agent Offline
Buildings and Grounds\GCBGHVACPC	Win XP	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
Mental Health\MHRECEPTIONPC2	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
Human Services\AGINGSP3	Win 10 x64	0.0%	0/0/0	0001 Jan 01	2017 Aug 21	Outdated Inventory Agent Offline
Elections\GCBOE-DATA	Win 7	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
Public Health\PSULKEY-PC	Win 7	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
County Clerk\MFABIANO-PC	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
DSS\GREENEDSS09	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 22	Outdated Inventory
Family Planning\LCHURCHILLP	C Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
DSS\GREENECPS-PC	Win 7 x64	0.0%	0/0/0	0001 Jan 01	0001 Jan 01	Outdated Inventory
Human Services\AGINGTRAININGRO	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
Mental Health\JGLASSMHPC	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
Treasurer\TTRACEYTREASURE	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 21	Outdated Inventory
County Clerk\AKATTPC	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 24	Outdated Inventory
DSS\GREENEDSS06	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 22	Outdated Inventory
Mental Health\GCMHSP4KCONROY	Win 10 x64	0.0%	0/0/0	0001 Jan 01	2019 Jan 19	Outdated Inventory Agent Offline
DSS\GREENEDSS04	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Mar 19	Outdated Inventory
Public Defender\CMYERS-PC	Win 7 x64	0.0%	0/0/0	0001 Jan 01	2019 Jan 24	Outdated Inventory Agent Offline