

PeerIQ User Guide

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1 Purpose of this Guide

The purpose of this guide is to familiarize you with the process of deploying and configuring PeerIQ and introducing you to using PeerIQ. If you experience any issues, please visit https://servicedesk.jira.peersoftware.com.

2 Product Overview

PeerIQ is a comprehensive monitoring tool designed to provide real-time and historical insights into your Peer Global File Service (PeerGFS) environment and storage. It captures three types of data:

• Environment Monitoring Data

PeerIQ enables users to effectively monitor their jobs, Peer Management Center (PMC), connected Agents, and volumes, with the ability to store up to four weeks of history.

• File System Analytics

PeerIQ enables analysis of volumes connected to Agents, offering insights into the content of your storage over time and across your PeerGFS environment.

• File Activity Analytics

PeerIQ enables analysis of user activity across volumes, giving insight into user behavior across your PeerGFS environment.

2.1 Deployment

PeerIQ is a web-based application and is deployed via a virtual appliance. The PeerIQ virtual appliance is compatible with various platforms, including:

- Hyper-V on Windows Server 2016, 2019, and 2022
- VMware ESXi 6.7, 7.0, and 8.0
- Nutanix AHV

The virtual appliance enables easy deployment and use, reducing the setup and configuration time required.

PeerIQ seamlessly integrates with your existing PeerGFS environment, connecting to your PeerGFS system using the same broker network that links the PMC and Agents. This connection utilizes the same SSL and TCP connections on ports 61616 and 61617, ensuring secure communication between the various Peer components in your environment.



3 Requirements

3.1 Hardware Requirements

The PeerIQ virtual appliance is a preconfigured virtual machine image designed for optimal performance. This virtual environment requires a minimum of 4 CPU cores, 8 GB RAM and a 120 GB virtual disk (thick provisioning and fast SSDs recommended) to ensure smooth operation.

3.2 Hardware Settings

For proper operation, it is crucial to ensure time synchronization between the PMC, Agents, NAS platforms, and the virtual appliance server. By default, the PeerIQ appliance utilizes NTP (Network Time Protocol) and synchronizes with ubuntu.pool.ntp.org to maintain accurate time.

However, if you are using an ESXi appliance, it is important to note that host guest time synchronization is enabled and takes precedence over NTP time. This means that time synchronization within the ESXi environment will be prioritized.

3.3 Software Requirements

The PeerIQ application is a web-based application that can be accessed using one of the following browsers:

- Mozilla Firefox
- Microsoft Edge
- Google Chrome

4 Logging into PeerIQ

This section describes logging into PeerIQ for the first time. After logging in for the first time, you must immediately change your password and then log in again.

To log into PeerIQ:

- 1. Open a web browser.
- 2. Navigate to the PeerIQ web interface:
 - For Virtual Appliances: The PeerlQ interface is typically accessible at https://<Appliance IP or Hostname>. If you are unsure of your appliance's IP address, you can retrieve it from either:
 - Your hypervisor's management interface.
 - The console of the PeerlQ virtual appliance itself.
 - For Red Hat or Rocky Installations: The PeerlQ interface is typically accessible at https://<Server IP or Hostname>:4430. The port 4430 is set by default but can be modified during the installation of PeerlQ.



3. In the login page, enter the default credentials: admin and password.

PEERR PeerlQ	Enter your login credentials below admin Username Password Log In
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4. Click Submit.

The End User License Agreement (EULA) is displayed on the login page the first time you log in. You must accept the EULA to use PeerIQ.

5. Click the Accept terms and conditions checkbox to accept the license agreement.

Peer Software End User License Agreement PLEASE READ THIS AGREEMENT CAREFULIX BY CHECKING THE "ACCEPT" BUTTON BELOW, OPENING THE PACKAGE, DOWNLOADING THE SOFTWARE, OK USING THE SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREET OALL OF THE TERNS AND CONDITIONS OF THIS AGREEMENT, ICLICK THE "DO NOT ACCEPT" BUTTON AND THE INSTALLATION PROCESS WILL NOT CONTINUE, RETURN THE SOFTWARE TO THE PLACE OF PURCHASE FOR A FULL REFURN TO BO NOT DOWNLOAD THE SOFTWARE. IF YOU ARE ENTERING INTO THIS AGREEMENT ON BHALF OF A CORPORATION OR OTHER LEGAL ENTITY, YOU THIS AGREEMENT TO BIND SUCH ENTITY TO THIS AGREEMENT. This Peer Software End User License Agreement ("Agreement") Is loadily lice battware bit waterthide and the	ew the license terms before using PeerIQ.	▲ Important: Please change the local default login credentials
BE BOUND BY THIS AGREEMENT, IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT, CLICK THE 'DO NOT ACCEPT' BUTTON AND THE INSTALLATION PROCESS WILL NOT CONTINUE, RETURN THE SOFTWARE TO THE PLACE OF PURCHASE FOR A FULL REFUND, OR DO NOT DOWNLOAD THE SOFTWARE. IF YOU ARE ENTERING INTO THIS AGREEMENT ON BEHALF OF A CORPORATION OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO BIND SUCH ENTITY TO THIS AGREEMENT. This Paer Software End User License Agreement Content of the Incention of the Ince	ftware End User License Agreement PLEASE READ THIS AGREEMENT JLLY, BY CHECKING THE "ACCEPT" BUTTON BELOW, OPENING THE PACKAGE, .OADING THE SOFTWARE, OR USING THE SOFTWARE, YOU ARE AGREEING TO	admin Usename
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earlier of the date set forth on the applicable ordering document or the date that Save	of the date set forth on the applicable ordering document or the date that	Save

6. Change the default username and password of the default Administrator account.

A password must be at least eight characters in length, contain at least one number, one uppercase character, one lowercase character, and a special character (such as %, \$, #, {, }, $\tilde{}$, $\hat{}$).

Once you have accepted the EULA and successfully changed the login credentials, the login page is redisplayed with a success message.



7. Log in again using your new password.

4.1 Managing Your PeerIQ Account

You can manage your PeerlQ account on the **Account** page. For example, you can change your password on the **Account** page.

To access your account:

1. Click your username at the top of any PeerlQ page.

PER.	≡ Overview				3	admin 🗸
Y Environment Monitor	\circ	0	<			≗ Account (→ Logout
E PMC	Current Health	Last 24 Hours	Data Connection			
🚔 Jobs	Unhealthy	11 issues	Good			
Volumes		40% 50%	*		E Lab Failure	۵
P License	Usage 20%	.80%	Agents Disconnected		Job Fallures Jobs Stopped	
E File System Analytics <	100TB	93TB 4.100%	0		0	
Administration	8	4060	•		Agent Peak	Cast 24 Hours
Greip C	Licensed 20,	80	Disk Usage	Memory	DallasFS • 91.0	
	Agents	26	Agents Above Threshold	Agents Above	PhiladelphiaFS • 91.0	
	100		0	Threshold	PhoenixFS • 91.0	
				10		

2. Select Account.

The **Account** page is displayed.

4.2 Changing Your Password

This feature is not available for accounts managed through LDAP.

To change your password:

1. Access your **Account** page.

- 2. In the **Current password** field, enter your current password.
- 3. In the **New password** field, enter the new password.

A password must be at least eight characters in length, contain at least one number, one uppercase character, one lowercase character, and a special character (such as %, \$, #, {, }, $\tilde{}$, $^, \langle, \rangle$).

- 4. In the Re-enter new password field, re-enter the new password.
- 5. Click Submit.

4.3 Changing Your Time Zone Settings

Use the Time Settings card to configure the time zone displayed across the PeerIQ user interface. Choose your preferred time zone from the dropdown menu:

- Coordinated Universal Time (UTC) displays all time-related elements consistently in UTC.
- Local Browser Time Zone automatically matches the time zone setting of your used browser.

The default time zone is initially set by PeerIQ administrators; however, each user can individually customize their own time zone settings.

5 Setting Up Communication between the PMC and PeerIQ

Before you can collect data in PeerIQ, you must set up communication between the PMC and PeerIQ. This involves two key steps:

- Configuring PeerIQ's connection to a broker: Set up PeerIQ's connection to a Peer Management broker. The broker manages communication between the PMC and other PeerGFS components, such as Peer Agents, and facilitates communication between PMC and external applications, including PeerIQ.
- 2. **Enabling data transfer:** After configuring the connection to the broker, enable the transfer of data from the PMC to PeerIQ.

For detailed instructions, see these sections:

- Configuring PeerlQ's Connection to Peer Management Broker
- Enabling Peer Management Center to Send Data to PeerIQ

5.1 Configuring PeerIQ's Connection to a Peer Management Broker

Depending on your current PeerGFS implementation, there are several methods for connecting PeerIQ to a Peer Management broker. This section first outlines common deployment scenarios and specifies which IP address or hostname should be used for the connection. It then provides step-by-step instructions for establishing the connection.

5.1.1 Typical Broker Deployments

Basic Configuration For a standard PeerGFS deployment, the most common configuration involves a single broker deployed on the PMC host. In this scenario, PeerIQ must be deployed on the same local network as the PMC host. To establish the connection, you can use either the IP address of the PMC host (e.g., *172.16.1.195*) or its fully qualified domain name (FQDN) (e.g., *pmc.office.local*).



Network of Brokers If you have deployed a network of brokers, it is crucial to connect to the IP address of the PMC running the broker if they are on the same host, or to the broker with which the PMC has a direct network connection. In the following example, you could use either the IP address *172.16.1.195* or the FQDN *pmc.office.local*:



Attempting to connect to another broker within the network that does not have a direct link to the PMC will be unsuccessful and result in PeerIQ not receiving any data. In the following example, the

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user is trying to connect to the broker at the Paris site, which lacks a direct link to the PMC. Consequently, no data will be transmitted.



Redundant PMC In a redundant PMC configuration, only the primary PMC can be monitored. In the following example, you would connect PeerIQ to the IP address *172.16.1.205* or to the FQDN *pmcprimary.office.local*.



NAT Firewall When connecting PeerIQ to the broker through a NAT firewall, it is essential to configure source and destination rules to forward traffic to the PMC. In the following example, the firewall at the California site is configured to forward all traffic received from IP *198.51.100.2* on port 61617 to the IP address of the broker. In this example, you would connect to the IP address *172.16.1.205* or to the FQDN *connection.domain.local*.



5.1.2 Configuring the Broker Connection

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To configure PeerIQ's connection to a broker:

- 1. Using your Administrator account, open PeerIQ.
- 2. Select Broker Configuration from the menu on the left.
 - The Broker Configuration page is displayed, showing *No Connection* as the connection status.

PER.		≡ Broker Cor	ifiguration
Y Environment Monitor	<	Configure the connect	ction to the Broker
E File System Analytics	<	Current Connection	
File Activity Analytics	<	Connection Setting: Connection Status:	: No Connection
Administration	\sim	New Connection	
💒 User Accounts		Provide the hostname, pr	otocol, and port for the Broker.
System State		Hostname:	pmcLondon.storagedomain.local
C oyotom otato		Port:	61617 (Encrypted SSL)
E Logs		Submit Clear Broker	
System Configuration	on		-
📽 Broker Configuratio	on		
E LDAP Configuration	n		
Software Updates			
\equiv Software Status			
Help	<		
Icenses Feedback()			

- 3. In the Hostname field, enter the IP address or the FQDN of the broker.
- 4. Choose between an encrypted SSL 61617 connection or a standard TCP connection on 61616.
- 5. Click the **Submit** button.

The connection status changes to *Not Connected, trying to connect...* This status will persist until the connection is established, which can take up to a minute.

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PEF	} .	≡ Broker Co	nfiguration	
Y Environment Monito	r <	Configure the conne	ection to the Broker	
📰 File System Analytic	s (Current Connection	ı	
File Activity Analytic	s <	Connection Setting: Connection Status:	pmcLondon.storagedomain.local:61617 C Not Connected, trying to connect	
Administration	~	New Connection		
😤 User Accounts		Provide the hostname, p	protocol, and port for the Broker.	
Ø System Stats		Hostname:	Enter the IP, hostname, or FQDN	
		Port:	61617 (Encrypted SSL)	
E Logs		Submit Clear Brok	ter	
System Configur	ation		_	
Right Broker Configure	ation			
- Bronor configur				
E LDAP Configurat	tion			
Software Update	s			
≡ Software Status				
	,			
🐨 нер	<			

Once connected, the status changes to *Connected*.

PER.		≡ Broker Co	nfiguration			
Y Environment Monitor	<	Configure the conne	ection to the Broker			
File System Analytics	<	Current Connection	n			
File Activity Analytics	<	Connection Setting: Connection Status:	pmcLondon.storagedomain.local:61617 Connected			
Administration V New Connection						
불 User Accounts		Provide the hostname,	protocol, and port for the Broker.			
System Stats		Hostname:	Enter the IP, hostname, or FQDN			
		Port:	61617 (Encrypted SSL)			
E Logs		Submit Clear Brok	xer			
System Configuration	1					
Roker Configuration						
E LDAP Configuration						
Software Updates						
\equiv Software Status						
Help	<					
Icenses Feedback()						

If the status does not change to *Connected*, refer to the Connection Issues section.

5.1.3 Stopping Attempts to Connect to a Broker

To stop connection attempts from PeerIQ to a broker, click the **Clear Broker** button.

5.1.4 Connection Issues

When attempting to connect PeerlQ to a broker, you may encounter these issues:

- **Incorrect IP address or FQDN**: Ensure you have entered the correct IP address or fully qualified domain name (FQDN) for the broker you are trying to connect to.
- **Firewall restrictions**: Verify that there are no firewall restrictions blocking the connection on ports 61617 (SSL) or 61616 (TCP).
- Network connectivity problems: Check for network issues, such as unstable connections or packet loss.
- Broker service not running: Verify that Peer Broker Service is running on the PMC system and that there are no errors in the log files.

5.2 Enabling Peer Management Center to Send Data to PeerIQ

After establishing the connection between PeerIQ and the broker, the next step is to enable the sending of data from the PMC.

- 1. Open the PMC.
- 2. From the Tools menu, select Open Preferences, and then select Analytics.

Peer Management Center Client											- a ×
File Window Tools Help											0 0
Den Preference	s							_			E 4
🗘 Jobs 📃 📎 Assign Tags		Y) 🖸 📕 🚱 🖇 💛 🗖	🗠 Cloud Summary 🚽	Namespace Summary	🔇 Collab, Sync, and Repl Summary	imageprojects-rep	×			
type filter text Event Detection a	Analytics >		0	Summany Session Event I	on Quarantines (0) Retries (0) Alerts (0) Participants (2) Configure	ation				
Cloud By Compress DB on	Restart			Summary Session Creme	og dooranones (of neares (of Pacific (of Paradipario (c) Configure					
J DFS-N Management (0)				Summary View Actions					✓ A	uto-Update Refresh	1 🗘 seconds
File Collaboration (0)											
✓ ➡ File Replication (2)											^
imageprojects-rep				Job Status	Running						
videoprojects-rep				Start Time	12/03/2024, 00:38	Elapsed Time	8 hours 2 min	utes 28 seconds			
 File Synchronization (7) 											
 Accounts-Sync 				Watch Set							
Engineering-Sync				Total Files	12/2316	Total Folders	135				
HomeAccounts-sync				Iotal bytes	100.4 Mib						
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WebDevleopment-Swor				Files Pending	0	Renames Pending	0				
,				Bytes Pending	0 bytes	Deletes Pending	0				
				Metadata Pending	0	File Retries	0				
				Replication Status							
				Bytes Transferred	48 MB	Delta-level Savings					
				Added	0	Renamed	0				
				Updated	441396	Deleted	0				
				Metadata Updates	0						
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∆ Agent	Version	OS	^								
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CharlotteFS (Connected)	6.0.0.20240308	Windows Server 2022									
ChicagoFS (Connected)	6.0.0.20240308	Windows Server 2022		Status: Running							
Coumbuses (Connected)	6.0.0.20240308	Windows Server 2022									
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All FortWorthES (Connected)	6.0.0 20240308	Windows Server 2022		Where X	5						
HoustonFS (Connected)	6.0.0.20240308	Windows Server 2022		53 errors, 72 warnings, 527	others Filter by : Host:	Severity:	 Type: 	 Clear Alert 			
IndianapolisFS (Connected)	6.0.0.20240308	Windows Server 2022									
JacksonvilleFS (Connected)	6.0.0.20240308	Windows Server 2022		Received Date Se	werity Type	Name	Host	Message			
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Lon-ISLN-SMB (Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:28:30 In	fo Agent	Sending FSAnalyics Data	NewYorkFS	Sent FSAnalyics run: Fast	SyncRun-Passed-cycle-Start1710231	683324-End1710231683	3324-Run1.ini success.
🚂 LosAngelesFS (Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:28:29 In	fo Agent	Sending FSAnalyics Data	CharlotteFS	Sent FSAnalyics run: Fast	lyncRun-Passed-cycle-Start1710231	663013-End1710231663	3013-Run1.ini success.
MemphisFS (Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:28:28 In	to Agent	Sending FSAnalyics Data	NewYorkFS	Sent FSAnalyics run: Fast	SyncRun-Passed-cycle-Start1710231	675609-End1710231679	5609-Run1.ini success.
MunichFS (Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:28:28 In	to Agent	Sending FSAnalytics Data	Charlotters	Sent FSAnaryics run: Fast	synckun-Passed-cycle-start1710231	369156-End1710231365	9156-Run Lini success.
NewYorkFS (Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:28:27 In	ro Agent	Sending FSAnalytics Data	SanFranciscoFS	Sent FSAnaryics run: Fast	synckun-Passed-cycle-start1710231	862250-End 1710231662	2250-Run Lini success.
Philadephiars (Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:20:27 In	ro Agent	Sending FSAnayics Data	Philadelphiars	Sent FSAnarytcs run: Fast	synckun-Passed-cycle-start1710231	535655-ERG1710231635	5055-Run Lini success.
Connected)	6.0.0.20240308	Windows Server 2022		03-12-2024 01:20:20 In	fo Agent	Sending PSAnabics Data	PhoenixES	Sent FSAnabirs nur: Fast	wirchumresseur-yde-start1710231	773502-End1710231072	2502-Punt ini success
SanDiegoFS (Connected)	6.0.0.20240308	Windows Server 2022		< 01.20.20 III	is Agent	Juning rannalytis Data	Priodentities	avery cannotypes run, rase	general reasonancycle/statt1710231	273303-6141710231772	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
and the system (connected)											

3. In the dialog that appears, select the **Enable the sending of analytics data to PeerlQ** checkbox.

This allows the PMC to send environment data about the PeerGFS deployment.

Preferences		—		×
type filter text	Analytics		<-> - ⊂	▼ 00
 Analytics Cloud Backup and Replication Collab, Sync, and Replication DFS-N Management Email Configuration General Configuration Licensing MED Configuration NAS Configuration MAS Configuration PMC Backup Real-time Event Detection SNMP Configuration Task Scheduler User Management 	 Share anonymous diagnostic data with Peer Software. Learn more Enable the sending of analytics data to PeerlQ. Learn more File System Analytics What is File System Analytics? Inable File System Analytics Excluded Agents: Select Agents to Exclude 			
	File Activity Analytics What is File Activity Analytics? ☑ Enable File Activity Analytics Excluded Agents: Select Agents to Exclude ▼			
	Apply and Close Cancel		Apply	

It may take up to 3 minutes for environment data to begin populating in PeerIQ.

4. To enable file system scan data to be sent to PeerlQ, select the **Enable File System Analytics** checkbox.

Enabling this option initiates weekly scans of any volumes associated with jobs in PeerGFS. The scan data will be processed by PeerIQ every Saturday by default. If your use case involves only receiving environmental data analytics, this option is not required.

5. To enable file activity summary data to be sent to PeerIQ, select the **Enable File Activity Analytics** checkbox.

Enabling this option initiates the collection of real-time activity statistics in PeerGFS. These statistics will then be sent to and analyzed by PeerlQ every five minutes. If your use case involves only receiving environmental data analytics, this option is not required.

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6. To verify that data is being sent correctly, open the **Overview** page in PeerlQ.

The **Data Connection** card displays the status of the connection. When the icon is green and the text says **Good**, data is successfully being sent.

6 Monitoring the PeerGFS Environment

The following section describes the **Environment Monitor** pages. These pages provide details about your PeerGFS environment, including the PMC, Agents, and the jobs.

The seven Environment Monitor pages are:

- Overview
- PMC
- Jobs
- Agents
- Volumes
- Watch Set
- License

6.1 Using the Environment Monitoring Page Controls

Several pages feature line graphs that depict activity trends over time. Use the controls located in the upper right corner of the page to adjust the date range and refresh rate of the displayed information:

- **Range:** Use this to select the desired time range for the line graphs; options range from 1 hour to 4 weeks.
- **Refresh:** Use this to select the interval at which the line graphs automatically refresh; Options are off (graphs will not refresh) or 1 minute.

= Jobs Range: 1 hour v Refresh: 1 minute v 🥐 🚺 admin v

6.2 Overview Page

The **Overview** page is a dashboard displaying the critical aspects of the PeerGFS environment. Each card represents a specific area of health, providing an at-a-glance view of issues from the last 24 hours. The color and status indicator on each card reflects the current health based on detected issues.

PER.		≡ Overview				e adr	nin 🗸
Environment Monitor Overview EPMC Dobs	~	Current Health Unhealthy	Last 24 Hours	Data Connection Good			
Watch Set Volumes Watch Set License File System Analytics File Activity Analytics	<	License Usage Capacity 100TB	€ 93TB	Disconnects Agents Disconnected		Job Failures Jobs Stopped	*
L Administration	<	Licensed 20 Agents 100	26	Disk Usage Agents Above Threshold 0	Memory Usage Agents Above Threshold 10	Agent Peak Last 24 Hour DailasES • 91.0 PhiladelphiaES • 91.0 PhoenixES • 91.0	\$
Licenses Feedback							

When there is an issue, a card displays up to three graphs depicting instances where problems have been encountered. For example, the card below shows memory usage exceeded thresholds on one Agent server. Hover over values to see when the issue occurred. Click the name of an Agent or job for more details.

			\$
	Agent	Peak	Last 24 Hours
Memory	WashONTAP-SMB	• 94.0	
Usage	SanAntonioFS	• 93.0	
Agents Above Threshold	<u>NewYorkFS</u>	• 93.0	
3			

6.2.1 Overview Page Cards

The Overview page contains nine cards:

Card	Description
Current Health	 Visually represents the current health of the PeerGFS environment. The presence of an ongoing issue determines the status. The background color and indicator reflect this status: Green: Everything is functioning normally; no current issues detected. Other cards may show different colors, indicating that thresholds were exceeded in the last 24 hours but are now within the allowed limits.
	• Orange : Indicates that a Warning threshold was exceeded and remains so. The card reflects an Unhealthy state.
	• Red : Indicates that a Danger threshold was exceeded and the issue is ongoing. The card reflects an Unhealthy state. Exceeding a Danger threshold overrides any warning messages.
Last 24 Hours	Visually represents the overall health of the PeerGFS environment over the last 24 hours. If all other cards show zero issues, the card indicator will be green, reflecting a Healthy status. If any card shows issues, the overall status will turn orange or red, depending on the severity:
	• If any card has an orange indicator, the Last 24 Hours status is Warning, reflecting an unhealthy environment.
	• If any card has a red indicator, or if multiple cards have orange indicators and at least one is red, the Last 24 Hours status is Danger , reflecting an unhealthy environment.
Data Connection	Displays the results of monitoring environment data reception from PeerGFS, excluding scan and real-time data. A Warning (orange) status is triggered after five minutes of no data, while a Danger (red) status occurs after 30 minutes. The label shows the duration since the last data was received. The status reflects that data reception may still be hindered even with an operational broker link. For example, this can occur if the Enable the sending of analytics data to PeerIQ checkbox was not selected during PMC configuration or if an outdated version of PeerGFS is in use.

Card	Description
License Usage Capacity	Displays the total capacity of the license in terabytes (TB), while the number below the gauge shows the used capacity in TB. The gauge indicates the percentage of the PeerGFS usage allowance that has been utilized. The default thresholds are:
	• Danger: Exceeds 95% usage.
	• vvarning: Exceeds 90% usage.
Disconnects	Displays the number of Agents that have been disconnected and identi- fies those specific Agents. The default thresholds are:
	• Danger: Exceeds 10 disconnects in a one-hour period.
	• Warning: Exceeds 1 disconnect in a one-hour period.
Job Failures	Displays the number of jobs that have failed. The default thresholds are:
	• Danger: Exceeds 10 disconnects in a one-hour period.
	• Warning: Exceeds 1 disconnect in a one-hour period.
Licensed Agents	Displays the number of active Agents in relation to the total number of licensed Agents. The number below Licensed Agents label shows the total number of Agents authorized by the PeerGFS license, while the number below the gauge indicates the number of Agents currently in use.
Disk Usage	Displays the number of Agents that might be utilizing a significant amount of their disk storage. The default thresholds are:
	• Danger : Exceeds 95% usage in a one-hour period.
	• Warning: Exceeds 90% usage in a one-hour period.
Memory Usage	Displays the number of Agents that may have experienced prolonged periods of high memory usage. The default thresholds are:
	• Danger : Exceeds 95% usage in a one-hour period.
	• Warning: Exceeds 90% usage in a one-hour period.

6.2.2 Modifying Thresholds

Preconfigured defaults for the **Danger** and **Warning** thresholds can be modified by Administrators. Using your Administrator account, click the gear icon in the upper right corner of a card to modify its thresholds. In the dialog that appears, set the **Danger** and **Warning** thresholds:

Disk Usage Thresholds	
 Danger Threshold 	
Disk Usage %:	95
Time Frame:	1 Hour
Warning Threshold	
Disk Usage %:	90
Time Frame:	1 Hour
	Cancel Submit

6.3 PMC Page

The **PMC** page provides an overview of the PMC's environment.

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6.3.1 PMC Page Cards

The PMC page contains nine cards:

Card	Description
Current Status	Displays:
	• Agents Disconnected : The total number of disconnected Agents that the PMC is aware of.
	• File Quarantines: The total number of files in quarantine.

Card	Description
License Information	 Displays: Agents Used/Licensed: The total number of Agents in relation to the maximum allowed by your license. Agents are counted only if they are associated with at least one job. Used vs Licensed Capacity in TB: The total capacity used in the environment compared to the maximum licensed capacity.
Watch Set Details	 Displays: Number of Files: The total number of files in the environment. Number of Folders: The total number of folders in the environment.
Disk Utilization	Displays a pie chart that compares the total disk space used in the environment (represented in orange) with the available disk space (represented in blue).
Memory Utilization	Displays a line graph that shows the system memory usage of the PMC server over time.
File Quarantines	Displays a line graph that shows the total number of files in quarantine over time.
Replication Backlog	Displays a line graph that shows the total number of files in the replica- tion backlog over time.

Card	Description
Agents	Displays a table listing all Agents in the environment, with each row representing an Agent. For more detailed information about Agents, view the Agents page. The table shows the following information for each Agent:
	• Status: The status of the Agent is indicated by color:
	– Green: Connected
	– Yellow: Pending
	– Orange: Disconnected
	– Black: Disabled
	– White: Unknown
	• Name: The name of the Agent.
	 Bandwidth: The tested bandwidth between the PMC and the Agent. (You must first run Test Agent Bandwidth Speed in the Agents view in the PMC for a value to be displayed.) Total Mem: The total memory available to the Agent. Mem Used: The percentage of the total memory currently in use. Disconnects: The number of disconnects for this Agent. If not all six columns are displayed, click the green plus sign in the Status column to reveal the hidden columns.

Card	Description
Running Jobs	Displays a table listing all currently running jobs in the environment, with each row representing a job. For more detailed information about all jobs (including jobs that aren't running), view the Jobs page. The table shows the following information for each job:
	• Status: The status of the job is indicated by color:
	– Green: Job is running
	 Orange: Job isn't running due to an error
	– White: Job is stopped or has unknown status
	• Job Name: The name of the job.
	• Job Type: The type of job.
	• Running Scans : The total number of currently running scans.
	• Pending Scans : The total number of currently pending scans.
	 Transferred Today: The total number of bytes transferred today. To display the number for an Agent, click the green dot to the left of the Agent's status indicator. If not all of the columns are displayed, click the green plus sign in the Status column to display the hidden columns. Tunning Jobs Search: Search: Status + Job Name + Job Type + File Collaboration = User Homes - File Synchronization Showing 1 to 3 of 3 entries Previous 1 Next

6.4 Jobs Page

The Jobs page provides detailed information about PeerGFS jobs in the environment.

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6.4.1 Job Page Cards

The Jobs page contains six cards:

Card	Description
Current Status	Displays:
	• Agents Disconnected : The total number of disconnected Agents in the environment.
	• Total Jobs: The total number of jobs in the environment.
	• File Quarantines: The total number of files currently quarantined.
Replication Backlog	Displays a line graph that shows the total number of files in the replica- tion backlog over time.

Card	Description
Data Processed	Displays a line graph the shows the data processed in bytes over time. The total resets every day.
Watch Set Files	Displays a line graph that shows the total number of files in the envi- ronment's watch set over time.
Watch Set Folders	Displays a line graph that shows the total number of folders in the environment's watch set over time.
Jobs	Displays a table listing all the jobs in the environment, with each row representing a job. Toggle the checkbox in the first column to show or hide the graph line representing that job in all graphs on the page. The table displays the following information for each job:
	• Status : The color indicates the status of the job:
	– Green: Running
	– Orange: Any halted state
	– White: Stopped or unknown
	• Color : The color used to identify the corresponding job in the graphs.
	• Uptime : The total uptime of the job.
	• Job Name: The name of the job.
	• Job Type: The type of the job.
	• Edge Caching: Displays a tick when Edge Caching is enabled for this job.
	• Quarantines: The total number of files in quarantine for the job.
	• Open Files : The total number of open files for the job.
	• Files: The total number of files in the job's watch set.
	• Folders: The total number of folders in this job's watch set.
	• Running Scans: The total number of currently running scans.
	• Pending Scans: The total number of currently pending scans.
	• Transferred Today : The total number of bytes transferred today.

6.5 Agents Page



The **Agents** page provides an overview of the Agents in the environment.

6.5.1 Agents Page Cards

The Agents page contains six cards:

Card	Description
Мар	Displays a world map that shows the location of all Agents in the envi- ronment. An Agent's latitude and longitude must be configured in the PMC to accurately display its location. If they are not configured, this card is not displayed.

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Card	Description
Memory Utilization	Displays a line graph that shows the memory utilization of the Agents in the environment over time. You can view either:
	Host Memory
	• Java Virtual Machine (JVM) Memory Click the options located in the upper right corner of the card to switch between the two utilization types.
Data Transferred	Displays a line graph that shows the amount of data transferred for the Agents in the environment over time. You can view either:
	• Data Received
	• Data Transmitted Click the options located in the upper right corner of the card to switch between the two transfer types.
Uptime	Displays a line graph that that shows the uptime for the Agents in the environment over time.
Status	Displays:
	• Agents Online: The total number of online Agents in the environ- ment.
	• Agents Offline: The total number of offline Agents in the environment.
Card	Description
----------------	--
List of Agents	Displays a table listing all the Agents in the environment, with each row representing an Agent. Toggle the checkbox in the first column to show or hide the graph line representing that Agent in all graphs on the page. This will also show or hide that Agent in the map. The table shows the following information for each Agent:
	• Status: The color indicates the status of the Agent:
	– Green: Connected
	– Yellow: Pending
	– Orange: Disconnected
	– Black: Disabled
	– White: Unknown
	• Color : The color used to identify the corresponding Agent in the graphs and map.
	• Name: The name of the Agent.
	• Location: The name of the Agent's location. A location must be configured in the PMC for the location to be displayed.
	• Uptime : The current uptime of the Agent.
	• Bandwidth : The results of tested bandwidth between the PMC and the Agent. (You must first run Test Agent Bandwidth Speed in the Agents view in the PMC for a value to be displayed.)
	• Disk Used : The percentage of the total disk space currently in use.
	• Total Mem: Total memory available to the Agent.
	• Mem Used: Percentage of the total memory currently in use.
	• Disconnects : The number of disconnects for this Agent.
	• Version: The Agent's current version number.
	• OS Name : The operating system the Agent is running on.

6.6 Volumes Page

The **Volumes** page provides an overview of all the volumes that are being monitored by a PeerGFS job.



6.6.1 Volumes Page Cards

The Volumes page contains eight cards:

Card	Description
Maximum volume utilization	Displays a treemap of storage devices across the PeerGFS environment and their volumes. The treemap uses nested rectangles, arranged from largest in the top left to smallest in the bottom right, to represent storage volumes. Each nested rectangle represents a volume, with size propor- tional to the data it represents when the <i>Volume Scaling</i> option is set to <i>On</i> . Otherwise, each volume will be the same size. The colors of the rectangles indicate the percentage of storage used, with the adjacent color scale identifying the percentage. Each storage device in the treemap has its own color.
	• Click a nested rectangle to focus on that storage device or volume. The other cards will be updated to show data only for the selected item. Click again to return to the previous treemap view.
	• Hover over an element within the treemap to display the total disk space and the percentage used for the current selection.
Currently Viewing	Displays the name of the selected storage device or volume.
Volume Storage Used	Displays the used storage for the selected storage device or volume.
Graph	Displays the used versus available storage for the selected storage device or volume.
Volume Storage Free	Displays the available storage for the selected volume.
Volume Storage Total	Displays the total storage for the selected volume.
Utilization Percentage	Displays a line graph of utilization over time for the selected volume.
Jobs - Paths	Displays a table of all PeerGFS jobs associated with the selected volume, with each row representing a job and the path to its watch set. Expand the plus symbol reveals the path and Agents linked to that volume. When expanded, the other two columns display the path to the watch set and Agent.

6.7 Watch Set Page

The Watch Set page provides an overview of all the watch sets in the environment.

PER.		≡ Watch Set			Range: 1 hour V Refresh: 1 minute V ? admin V
Y Environment Monitor	~	Current Status			
Overview		1,488,152	143	178.78 TB	
E PMC		Number of Files	Number of Folders	Size	
🚔 Jobs		Total Files			
Agents		1.488153M			
- Volumes		1.4881525M			
M Watch Set		1.488152M-			
P License		1.4881515M			
E File System Analytics	<	1.488151M 12:20 Apr 25, 2025	12:30 12:40	12:50	13:00 13:10
File Activity Analytics	<	Total Folders			
Administration	<	144			
Help	<	143.5			
		143			
		142 12:20 1 Apr 25, 2025	2:30 12:40	12:50	13:00 13:10
		Total Size			
		150TB			
		100TB			
		5018			
		12:20 Apr 25, 2025	12:30 12:40	12:50	13:00 13:10
Licenses Feedback					

6.7.1 Watch Set Page Cards

The Watch Set page contains four cards:

Card	Description		
Current Status	Displays:		
	• Number of Files: The total number of files in the environment's watch sets.		
	• Number of Folders: The total number of folders in the environ- ment's watch sets.		
	• Size: The total size of all files in the environment's watch sets.		
Total Files	Displays a line graph that shows the total number of files in the watch sets.		
Total Folders	Displays a line graph that shows the total number of folders in the watch sets.		

Card	Description
Total Size	Displays a line graph that shows the total size of all files in the watch sets.

6.8 License Page

The **License** page provides an overview of the historical capacity usage of PeerGFS licenses, along with the capability to predict future license utilization. It is important to note that the accuracy of the prediction model improves with the availability of more historical data. To generate a reliable prediction, a minimum of one month of data is required, and the model can project license usage up to a maximum of one year into the future.



6.8.1 License Page Card

The License page contains one card:

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Card	Description
Licensed Storage Utilization	Displays:
	• Licensed Capacity: The amount of TB licensed for PeerGFS over time.
	• Actual Utilization: The amount of TB used by PeerGFS over time.
	• Predicted Utilization: The amount of TB predicted to be used by PeerGFS over time.
	 Insights: Click the Generate button to generate insights into future license utilization. Once complete, the predicted utilization be updated on the graph. You'll also find an insight that indicates the remaining time until the licensed capacity is insufficient, based on the predicted utilization. We recommend considering additional license capacity from Peer Software to ensure uninterrupted usage of PeerGFS.

7 Analyzing Your File Systems

The following section describes the **File System Analytics** pages. These pages provide details about the file systems in your PeerGFS environment.

The four File System Analytics pages are:

- Extensions
- Data Aging
- Hot Data Analysis
- Scans

7.1 Using the FSA Page Controls

Several of the File System Analytics pages feature data visualizations such as line graphs, pie charts, and treemaps. Use the controls located in the upper right corner of the page to adjust the displayed information:

- Files/Logical Size/Physical Size: Select the type of data to display, such as the number of scanned files, the logical size of scanned files, or the physical size on disk of scanned files.
- Group by Extension/Group by Type: Select whether to display data grouped by file extension or file type.
- **Modified/Access:** Select whether to display data based on the last modified or last accessed times of each scanned file.

More detailed information is provided on individual pages.

7.2 Extensions Page

The **Extensions Page** displays a breakdown of the file extensions in use across your PeerGFS environment.



7.2.1 Extensions Page Cards

The **Extensions** page contains seven cards:

Card	
Selected Volumes	
Volumes	

Identifies which element is selected in the treeman
identifies when element is selected in the treemap.
Displays the total number of files in the current selection.
Displays the total number of unique extensions or extension types, based on the Group By controls selected at the top of the page.
 Displays a table of the extensions or extension types within the currently selected volumes, based on the Group By controls selected at the top of the page, as well as the Files/Logical Size/Physical Size controls. The table shows the top 10 extensions or extension types when no filter is applied; otherwise, it displays those that match the filter. Click any column heading to sort by that column. Toggle the checkbox in the first column to show or hide the segments in the pie chart and the traces in the line graph. The table displays the following information for each extension or extension type: Color: The color used to identify the corresponding segment in the pie chart and trace in the line graph matching this extension or extension type.
 Extension: Displays the file extension. The value Others represents extensions outside of the top 10, and No Extension represents files without a file extension. This column is only shown when Group by Extension is selected. Type: The file type category. File: The total number of files for this extension or type. Size: The total size of the files with this extension or type.

Card	Description
Distribution of Extensions by File Count/File Logical Size/File Physical Size (Top 10) or Distribution of Extension Types by File Count/File Logical Size/File Physical Size (Top 10)	Displays a pie chart showing the distribution of extensions or extension types within the currently selected volumes, based on the Group By controls selected at the top of the page, as well as the Files/Logical Size/Physical Size controls. The colors in the pie chart correspond to those indicated in the Details table.
File Count/File Logical Size/File Physical Size Over Time (Top 10)	Displays a line graph of the top 10 extensions or extension types within the currently selected volumes, based on the Group By controls selected at the top of the page, as well as the Files/Logical Size/Physical Size controls. This chart illustrates trends over time, with line colors corresponding to those indicated in the Details table.

7.3 Data Aging Page

The **Data Aging** page provides a detailed overview of data age within the PeerGFS environment. **Data age** refers to the time that files on your system were last accessed or modified. **Hot data** refers to files that have been recently used, whereas **cold data** refers to files that are infrequently used.



7.3.1 Data Aging Page Cards

The Data Aging page contains five cards:

Card	Description		
Selected Volumes	This card filters the volumes currently selected for analysis. Selected volumes are sorted into two categories: Results from Last Scan and Historic Results Only . Volumes with recent scans are shown in green, while volumes with no recent scans are shown in white. These white-labeled volumes do not contribute to page elements displaying current data but are included when analyzing historic trends. Use these options to modify which volumes are selected:		
	• Select All: Select all available volumes.		
	• Clear All: Deselect all volumes.		
	• Individual Volume Search: Search for and add a volume by typing the name in the Selected Volumes field and selecting the appropriate volume from the drop-down list.		
	• Individual Volume Removal: Click the X next to a volume name to remove that specific volume.		
Legend	Illustrates the color associated with each data age range and specifies the corresponding data range.		
Data Age per Volume over Past Week	Displays a bar chart where each bar represents a volume in the PeerGFS environment. Each bar is divided into sections corresponding to the data age ranges of the items on that volume. The colors of each section match those in the Legend card. Use the Files/Logical Size/Physical Size controls to adjust the bar chart:		
	• Files : When selected, each bar shows the number of files per volume in each data age range. The height of each bar segment reflects the number of files.		
	• Logical Size/Physical Size: When either is selected, each bar shows the size of the files per volume in each data range.		
	 Logical Size: The bar chart element size reflects the total size of the files if all files were fully hydrated for each data age range. 		
	 Physical Size: The bar chart element size reflects the total size of the files in their current form for each data age range. Use the Modified/Accessed controls to report on the number, logical size, or physical size of files that have been modified or accessed during the week. 		

Card	Description
Data Age over Past Week	Displays a pie chart representing the percentage of files in each data age range aggregated across all volumes in the PeerGFS environment. Use the Files/Logical Size/Physical Size controls to adjust the pie chart:
	• Files: When selected, each segment represents the number of files across all volumes in each data age range. Provides insight into the distribution and quantity of files across different age ranges.
	• Logical Size or Physical Size: When either is selected, each seg- ment represents the size of all files across all volumes in each data age range:
	 Logical Size: Represents the total size of files as if they were fully hydrated, meaning the total size if all data were fully present and accessible. Helps in understanding the potential storage re- quirements if all files were in their complete form.
	 Physical Size: Represents the actual size of the files in their current form on the storage system. Reflects the real storage space occupied by the files. Use the Modified/Accessed controls to report on the percentage of files that have been modified or accessed during the week.

Card	Description
Historic Data Age	Displays a line graph of files for each data age range over time, aggre- gated across all volumes. This helps you to identify trends and hot spots in file modification and access. The colors for each section of the line graph match those for each data age range in the Legend card. You can filter the line graph to show results from a specific date range. To do this, click the date input box at the top right of the card, select a start date in the calendar view, and then choose an end date. The graph will update to display data within this range. Additionally, the values to the left of the line graph display the percentage change of hot data for each data age range. Use the Files/Logical Size/Physical Size controls to adjust the line graph:
	• Files: When selected, the graph shows the trend of file modification or access across all volumes in each data age range. Provides insight into the distribution and quantity of files across different age ranges.
	• Logical Size or Physical Size: When either is selected, each line shows the trend of all file sizes across all volumes in each data range:
	 Logical Size: Represents the trend of file sizes as if all files were fully hydrated.
	 Physical Size: Represents the trend of file sizes in their current form on the storage system. Use the Modified/Accessed controls to report on the number, logical size, or physical size of files that have been modified or accessed during the week.

7.4 Hot Data Analysis Page

The **Hot Data Analysis** page provides insights into recent file activity within your PeerGFS environment. By focusing on **hot data**—files that have been interacted with recently—this analysis can help you identify files are currently in use or experiencing frequent changes. This information is valuable for various purposes such as resource allocation, performance optimization, and security monitoring.

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7.4.1 Hot Data Analysis Cards

The Hot Data Analysis page contains six cards:

Card	Description
Selected Volumes	This card filters the volumes currently selected for analysis. Selected volumes are sorted into two categories: Results from Last Scan and Historic Results Only . Volumes with recent scans are shown in green, while volumes with no recent scans are shown in white. These white-labeled volumes do not contribute to page elements displaying current data but are included when analyzing historic trends. Use these options to modify which volumes are selected:
	• Select All: Select all available volumes.
	• Clear All: Deselect all volumes.
	• Individual Volume Search: Search for and add a volume by typing the name in the Selected Volumes field and selecting the appropriate volume from the drop-down list.
	• Individual Volume Removal: Click the X next to a volume name to remove that specific volume.
Legend	Illustrates the color associated with the data range and specifies the corresponding data range.
Hot % over Past Week	 Displays the percentage of files classified as hot during the current week. The colored value below indicates the percentage change compared to the previous week: green with an up arrow for an increase, and red with a down arrow for a decrease. Use the Files/Logical Size/Physical Size controls to adjust the card: Files: When selected, the card shows the percentage of the number of files that are hot during the week. Logical Size or Physical Size: When either is selected, each shows the percentage of the size of files that are hot during the week. Logical Size: Shows the percentage of the size of files as if all more fille below that are hot during the week.
	 were fully hydrated that are hot during the week. – Physical Size: Shows the percentage of the size of files in their current form that are hot during the week. Use the Modified/Accessed controls to report on the percentage of files that have been modified or accessed during the week.

Card	Description
Top 10 Most Active Volumes over Past Week	Displays a table providing a snapshot of the volumes with the highest file activity within your PeerGFS environment. The table shows the following information for each volume:
	• Host: The name of the host where the volume is stored.
	• Volume: The name of the volume being analyzed.
	• Hot Files: The number of files that are considered hot on a volume during the week. This column is visible when Files is selected as the control.
	• Total Files: The total number of files within your environment. This column is visible when Files is selected as the control.
	• Hot Size: The size of files that are considered hot on a volume during the week. This column is visible when either Logical Size or Physical Size is selected as the control, specifying the type of size being displayed.
	• Total Size: The size of all files within your environment. This column is visible when Logical Size or Physical Size is selected as the control, specifying the type of size being displayed.
	• % Hot: The percentage of files on the volume that are considered hot during the week.
	 % Change: The percentage of overall change in the number of hot files this week compared to the previous week. The value will be green with an up arrow for an increase, and red with a down arrow for a decrease. Use the Files/Logical Size/Physical Size controls to adjust the table:
	• Files: When selected, the table shows the most active volumes based on the number of files, providing insight into file activity and distribution.

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Card	Description
Top 10 Most Active Volumes over Past Week (Continued)	 Logical Size or Physical Size: When either is selected, the table shows the most active volumes based on the size of files. Logical Size: Represents the total size of files as if they were
	fully hydrated, meaning the total size if all data were fully present and accessible.
	 Physical Size: Represents the actual size of the files in their current form on the storage system. Use the Modified/Accessed controls to report on the percentage of file count, logical size, or physical size that has been modified or accessed during the week. The default sorting of the table is determined by the selected control at the top of the page (Files/Logical Size/Physical Size) Click any column header to sort the table by that specific column.
Historic Hot Data %	Displays a line graph showing the percentage of hot files that have been changed over time, aggregated across all volumes in your PeerGFS environment. The graph provides insights into the trend of hot file activity over a historical period, allowing you to track changes and patterns in file usage and modification/access behavior across your system. Use the Files/Logical Size/Physical Size controls to adjust the graph:
	• Files: When selected, the graph shows the trend of the percentage of hot files over time.
	• Logical Size or Physical Size: When either is selected, the graph shows the trend of the percentage of hot files based on their size.
	 Logical Size: Represents the total size of files as if they were fully hydrated, meaning the total size if all data were fully present and accessible.
	 Physical Size: Represents the actual size of the files in their current form on the storage system. Use the Modified/Accessed controls to report on the percentage of files that have been modified or accessed during the week.

Card	Description
Volume Heat Historic Data	Displays a heatmap representing each volume in the PeerGFS environ- ment and the percentage of files on those volumes considered hot per week. This information is valuable for identifying trends in hot data to- tals across all volumes, aiding in the analysis of data usage patterns and resource allocation within your environment. The volumes selected for analysis are identified by labels to the left of the heatmap. The heatmap colors indicate different levels of intensity or frequency, with a color scale to the right of the heatmap explaining what each color represents in terms of data magnitude or intensity. You can filter the heatmap to show results from a specific date range. To do this, click the date input box at the top right of the card, select a start date in the calendar view, and then choose an end date. The heatmap will update to display data within this range. Use the Files/Logical Size/Physical Size controls to adjust the graph:
	• Files: When selected, the heatmap shows the trend of the percent- age of hot files over time.
	• Logical Size or Physical Size: When either is selected, the heatmap shows the trend of the percentage of hot files based on their size.
	 Logical Size: Represents the total size of files as if they were fully hydrated, meaning the total size if all data were fully present and accessible.
	 Physical Size: Represents the actual size of the files in their current form on the storage system. Use the Modified/Accessed controls to report on the percentage of files that have been modified or accessed during the week.

7.5 Scans Page

The **Scans** page provides detailed information about the File System Analytics scans received by PeerlQ from the connected PMC. It is accessible only to Administrator accounts.

Environment Monitor Received File System Analytics Scams Service Status File System Analytics Period Hosts Volumes Late Scans L Extensions 2024/06/03 - Week 23 23 43 0-06-2024 14.59:30 UTG 2024/05/20 - Week 21 23 43 2025/02/21 14.46 0UTG Certeire Status 2024/05/30 - Week 12 23 43 1/05-2024 130.05 UTG Certeire Status 2024/05/30 - Week 13 23 43 1/05-2024 130.05 UTG Certeire Status 2024/05/30 - Week 13 23 43 1/05-2024 130.05 UTG Certeire Status 2024/05/30 - Week 13 23 43 1/05-2024 130.05 UTG Certeire Status 2024/05/30 - Week 13 23 43 1/06-2024 145.93 UTG Certeire Status 2024/03/30 - Week 12 23 43 200-3024 23.59 SUTG Certeire Status 2024/03/30 - Week 12 23 43 200-3024 23.59 SUTG Certeire Status 2024/03/30 - Week 10 23 43 1/06-3024 23.59 SUTG Certeire Status 2024/03/40 - Week 10 23	Period Hosts Volumes Last Scan Service Status Central Status Extensions Period Hosts Volumes Last Scan Central Status Last Status	Furknomment Monitor File System Analytics Period Hotsis Volumes Lats Can Casta Anigute 2024-06-03 -Week 23 23 43	PER.		≡ Scans						?
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					Showing 1 to 11 of 11 entries				Previous 1 Next		

7.5.1 Scans Page Cards

The Scans page contains three cards:

Card	Description
Received File System Analytics	Displays a table listing the last ten scans received by PeerIQ and includes the following information for each scan:
Scans	• Period: The time period (in weekly increments) during which the scan occurred.
	• Hosts: The number of hosts that sent scan data during this period.
	• Volumes: The number of volumes that were scanned during this period.
	 Last Scan: The time and date when the last scan was received for this period. This table is sorted by scan period by default, with the most recent period at the top. Click any column header to sort the table by that column. To view more detailed information about a scan, click its date range in the Period column.

Card	Description
Service Status	Displays the current status of the scan service. The status can be:
	• Ingesting: Scan data is currently being ingested by PeerIQ.
	• Refresh Queued: A refresh of the File System Analytics pages is pending.
	• Refreshing Views: A refresh of the File System Analytics pages is in progress.
	• Idle: No File System Analytics scan data is being processed.
	• Errors: There is a problem with processing the scan data.
Latest Scan	Displays the data and time of the latest scan.

7.5.2 Viewing Detailed Scan Information

To view more detailed information about a scan, click its date range in the **Period** column. This action displays a table with additional details about the scan, including each host that participated in the scan during this period.

PER		≡ Scans			
Y Environment Monitor	<	Scans / 2024-06-03 - We	eek 23		
📰 File System Analytics	\sim	Received File Syste	em Analytics Scans		
Extensions		Host	÷	Volumes 🖕	Last Scan 🔶
		AustinFS		2	06-06-2024 14:55:08 UTC
U Data Aging		BostonFS		2	06-06-2024 14:58:39 UTC
Hot Data Analysis		CharlotteFS		2	06-06-2024 14:59:25 UTC
		ChicagoFS		2	06-06-2024 14:57:29 UTC
E Scans		ColumbusFS		2	06-06-2024 14:55:50 UTC
Administration	/	DallasFS		2	06-06-2024 14:55:35 UTC
	`	DetroitFS		2	06-06-2024 14:55:55 UTC
Help	<	FortWorthFS		2	06-06-2024 14:58:39 UTC
		HoustonFS		2	06-06-2024 14:56:04 UTC
		IndianapolisFS		2	06-06-2024 14:58:58 UTC
		JacksonvilleFS		2	06-06-2024 14:55:01 UTC
		LONONEFS		1	05-06-2024 16:28:21 UTC
		LosAngelesFS		2	06-06-2024 14:58:49 UTC
		MemphisFS		2	06-06-2024 14:59:30 UTC
		MunichES		1	05-06-2024 16:09:32 UTC
		NewYorkFS		2	06-06-2024 14:56:58 UTC
		PhiladelphiaFS		2	06-06-2024 14:58:09 UTC
		PhoenixFS		2	06-06-2024 14:55:00 UTC
		SanAntonioFS		2	06-06-2024 14:56:06 UTC
		SanDiegoFS		2	06-06-2024 14:55:41 UTC
		SanFranciscoFS		2	06-06-2024 14:59:26 UTC
		SanJoseFS		2	06-06-2024 14:55:30 UTC
		WASHIONTAP		1	05-06-2024 16:28:21 UTC
licenses Feedbackii		Showing 1 to 23 of 23	entries		Previous 1 Next

The table has the following columns:

Column	Description
Host	Displays the name of the host. To view more detailed information about a host, click its name.
Volumes	Displays the number of volumes that were scanned during this time period.
Last Scan	Displays the time and date when the last scan was received for this time period.

7.5.3 Viewing Detailed Host Information

To view more detailed information about a host, click its name in the **Host** column. This action displays a table with additional details about the host, including each volume associated with that host.

PER		≡ Scans		
Y Environment Monitor	<	Scans / 2024-06-03 - Week 23 / WASHIONTAP		
E File System Analytics	\sim	Received File System Analytics Scans		
Extensions		Volume A		Last Scan 🝦
O Data Aging		PhotoCatalog Showing 1 to 1 of 1 entries	P	05-06-2024 16:28:21 UTC
8 Hot Data Analysis				
E Scans				
Administration	<			
Help	<			
Licenses Feedbacki				

The table has the following columns:

Column	Description
Volume	Displays the name of the volume. To display more detailed information about a volume, click its name.
Last Scan	Displays the time and date when the last scan was received for this time period.

7.5.4 Viewing Detailed Volume Information

To view more detailed information about a volume, click its name in the **Volume** column. This action displays a page with cards that provide a detailed breakdown of scan information for that volume.

PER.		≡ Scans		r admin 🗸
Y Environment Monitor	<	Scans / 2024-06-03 - Week 23 / WASHIONTAP / Ph	otoCatalog	
File System Analytics	\sim	Path	Messages	
Extensions		\\?\UNC\washiontap\c\$\photocatalog\	No messages available.	
O Data Aging		Start Time		
Hot Data Analysis E Scans		05-06-2024 16:28:23 UTC		
Administration	<	End Time		
🚱 Help	<	05-06-2024 16:34:28 UTC		
Licenses Feedbackii				

This page contains four cards:

Card	Description
Path	Displays the path of the volume being scanned.
Start Time	Displays the start time of the scan for this volume.
End Time	Displays the end time of the scan for this volume.
Messages	Displays any log entries generated for this volume during the scan.

8 Analyzing File Activity

The following section describes the **File Activity Analytics** pages, which enable you to analyze file activity by users/clients accessing the file systems in your PeerGFS environment.

File Activity Analytics has two pages:

• Users

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• Clients

8.1 Users Page and Clients Page

The following section of documentation applies to both the Users and Clients page.

The Users Page and Clients Page provides an overview of user and client activity across volumes monitored by PeerGFS. They summarize key file and folder operations, helping you track how data is being accessed and modified. The following activity is tracked:

Activity Type	Description
Total	The sum of all file and folder activities.
File Attribute	Indicates that a file's attributes have been changed. For example, chang- ing a document to read-only.
File Close	Indicates that a file is closed after being accessed or edited. For example, closing a Word document.
File Create	Indicates that a new file has been created. For example, saving a new file called "notes.txt".
File Delete	Indicates that a file has been removed. For example, deleting "old_document.docx".
File Open	Indicates that a file has been opened. For example, opening "bud-get.xlsx".
File Read	Indicates that a file's contents have been read. For example, viewing "report.pdf".
File Rename	Indicates that a file has been renamed. For example, renaming "draft.docx" to "final.docx".
File Security	Indicates that a file's permissions have been changed. For example, changing access rights to a document.

Activity Type	Description
File Write	Indicates that file's contents have been changed. For example, editing and saving "slides.pptx".
Folder Attribute	Indicates that a folder's attributes have been changed. For example, setting a folder to hidden.
Folder Create	Indicates that a folder has been created. For example, creating a folder named "Projects".
Folder Delete	Indicates that a folder has been removed. For example, deleting the folder "Old_Backups".
Folder Security	Indicates that a folder's permissions have been changed. For example, changing access rights to a folder.
Folder Rename	Indicates that a folder has been renamed. For example, renaming "Pho-tos_2024" to "ProductPics".

8.1.1 Client Hostname or IP Address

PeerGFS normally records the hostname of the client performing an operation. However, in certain cases, this information may not be available.

Windows File Server Local Access When a job is configured to work with a Linux File Server, PeerGFS cannot associate activity with a specific client hostname. This limitation exists regardless of the file being accessed via NFS or locally. In these cases, activity is shown as localhost.

Linux File Server When a job is configured to work with a Linux File Server, PeerGFS cannot associate activity with a specific client hostname. This limitation exists regardless of the file being accessed via NFS or locally. In these cases, activity is shown as localhost.

8.2 Using the FAA Page Controls

You can customize the data displayed on the Users/Clients page using the controls at the top-right of the page:

• **Department:** Filter the displayed data based on a user's department. This requires that your LDAP environment contains the 'department' attribute and that the Resolve LDAP Information option is enabled in PeerIQ's LDAP configuration. > Note that this filtering applies only to Users, not Clients.

- Activity: Filter the displayed data to show specific activity types. See the list of tracked activities above.
- Start Date: Select the date from which to begin displaying data. For daily views, any date is valid. For weekly or monthly views, only Mondays can be selected.
- **Time Frame:** Define the period of data to display, starting from the selected Start Date.



8.2.1 Users Page and Clients Page Cards

The Users page and Clients page includes several cards that provide a summarized view of user and client activity:

Card	Description
Selected Volumes	 This card filters the volumes currently selected for analysis. Selected volumes are sorted into two categories: Recent Activity and No Recent Activity. Recent Activity includes volumes with data from the most recent set of real-time statistics and are shown in green. No Recent Activity includes volumes with no activity in the latest real-time statistics and are shown in white. Use these options to modify which volumes are selected: Select All: Select all available volumes. Clear All: Deselect all volumes. Individual Volume Search: Search for and add a volume by typing the name in the Selected Volumes field and selecting the appropriate volume from the drop-down list. Individual Volume Removal: Click the X next to a volume name to remove that specific volume.
Top 5 Users/Clients - <full time<br="">Frame></full>	Displays the top five users or clients based on total activity within the selected time frame. Click Expand and Search to view more entries.
All Users/Clients Activity Over Time	Displays a trend chart of all users' activity over time, based on the selected filters.
Multiple Top 5 Users/Clients - <portion of="" time<br="">Frame></portion>	Each card highlights the top users or clients within a breakdown of the selected Time Frame. In a 4-week view, cards display weekly activity; in a weekly view, daily activity; and in a daily view, 4-hour activity blocks. Click Expand and Search to explore more entries.

8.2.2 Expand and Search

arch Total Activity ↓ .4k .8k .3k .5k
Total Activity .4k .8k .3k .5k
.4k .8k .3k .5k
.8k .3k .5k
.3k .5k
.5k
.7k
3k
3k
lk
3k
5k

The **Expand and Search** option allows you to view more users or clients beyond the top five shown by default. You can also use the search bar to find a specific user and review their activity during the selected time period.

8.3 User Activity Page and Client Activity Page

The **User Activity Page and Client Activity Page** provide a detailed analysis of activity performed by a specific user or client on volumes monitored within PeerGFS.

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8.3.1 User Activity Page and Client Activity Page Cards

The User Activity Page and Client Activity Page contain four cards:

Card	Description
Username/Client Search	Provides a search field for selecting a user/client. Begin typing a username/hostname or IP to see matching results. You can select a user/client from the dropdown list or enter the full username/hostname or IP and press Enter. <i>Note:</i> If a user/client has no trackable activity on volumes being monitored by PeerGFS, they will not appear in the search results.

Card	Description
Volumes	 Displays a treemap of volumes and shares that the selected user has accessed. If no user is selected, the card will indicate that no data is available. The treemap uses nested rectangles to represent volumes and shares, arranged from largest to smallest based on access. Each rectangle's size is proportional to the amount of file activity it represents. Click a nested volume or folder within the treemap to focus on that volume or folder. The page will update to show file activity for the selected item. Click again on the same volume or folder return to the previous treemap view.
Activity	Lists all activity types tracked for the selected user. You can toggle activity types on or off to adjust the data shown in other cards.
User/Client File Activity Events	Shows a bar chart of the selected user's/client's activity at the selected treemap level. The chart breaks down the number of events over the selected time frame. If no user/client is selected, this card shows "No Data Available."

9 Administering PeerlQ

The following section describes the **Administration** pages, which can be accessed only when using your Administrator account. These pages enable you to manage users, configure the connection to the broker, configure PeerIQ, and manage PeerIQ logs, and other diagnostic information.

The six Administration pages are:

- Broker Configuration
- LDAP Configuration
- Logs
- Software Status
- Software Updates
- System Configuration
- System Stats
- User Accounts

9.1 Broker Configuration Page

For information about the Broker Configuration page, see the section Setting Up Communication between the PMC and PeerIQ. The section first explains how the broker facilitates information exchange between PeerIQ and Peer Management Center, and then provides instructions on configuring a connection to the broker.

9.2 LDAP Configuration

You can manage LDAP access on the LDAP Configuration page.

PER.		= LDAP Configuration
Y Environment Monitor	<	LDAD Configuration
E File System Analytics	<	
File Activity Analytics	<	Active Directory ~
Administration	~	Server URL Idaps://dc.example.com:636
Attalleer Accounts	Ť	Authentication
		LDAP ~
🕲 System Stats		Service Domain
E Logs		example.com
System Configuration		Service Username
Broker Configuration		admin
EB LDAP Configuration		Service Password
Software Updates		Liner Search Base
≡ Software Status		Service Domain V
	,	
• neih	<	Save Test
		Resolve LDAP Information
		Resolve user and departmental information from the LDAP server for File Activity Analytics data views.
		Save
		1
icenses Feedbacki		

The LDAP Configuration page contains two cards:

Card	Description
LDAP Configuration	Use this card to configure a connection to an LDAP server.
Resolve LDAP Information	Use this card to enable user name resolution using NFS UIDs and SIDs, as well as retrieving department information from AD servers.

9.2.1 Configuring Access for LDAP Users

To enable LDAP support within PeerIQ, use the **LDAP Configuration** card. The process to enable LDAP access involves two steps:

- 1. Configuring LDAPS
- 2. Configuring the Connection to the LDAP Server

Configuring LDAPS LDAPS (Lightweight Directory Access Protocol over SSL) secures directory information exchange over an encrypted connection, ensuring data confidentiality and integrity between your server and client applications. This section provides instructions for setting up LDAPS with PeerIQ using trusted certificates.

Prerequisites:

- Ensure you have SSH and SCP tools available for this configuration process.
- Ensure you have a supported LDAP server. PeerIQ supports the following:
 - Microsoft Windows Active Directory (2016 and newer)
 - OpenLDAP
 - Red Hat Identity Management

LDAPS establishes TLS connections using the certificates present in PeerIQ's host trust store. Use one of the following methods to include certificates in the trust store.

Method 1: Using a Certificate from a Certificate Authority If you have a certificate from a certificate authority that is valid for any FQDN in the domain *.examplecompany.org, and you're using this certificate for your internal servers (e.g., adhost.examplecompany.org), the certificate will be valid. In this case, the LDAPS connection will be successful, and no further action is required.

Method 2: Using Self-Signed Certificates LDAPS will not connect using self-signed certificates unless the certificate has been imported into PeerIQ's trust store.

To import a self-signed certificate:

- 1. Export the certificate from the Windows AD server or copy from the Linux LDAP server as a Base-64 encoded X.509 (.CER) certificate.
- 2. Rename the exported file to have a .crt extension.
- 3. Use SCP to transfer the file onto your PeerIQ host. By default, the PeerIQ host username is peersoftware and the password is password. For example:

```
scp ./example.crt peersoftware@\<peeriq_ip\>:/tmp/example.crt
```

4. Access your PeerIQ host using SSH:

 $ssh peersoftware@<peeriq_ip>$

5. Copy the .crt file to your certificate import location. Locations Below:

OS	Certificate import location
Red Hat or Rocky Linux	/etc/pki/ca-trust/source/anchors/
Ubuntu Virtual Appliance	/usr/local/share/ca-certificates/

For example for the Ubuntu Virtual Appliance:

sudo cp /tmp/example.crt /usr/local/share/ca-certificates/example.crt

6. Run the certificate import command to inform the system about the new certificate:

OS	Certificate import command
Red Hat or Rocky Linux	update-ca-trust extract
Ubuntu Virtual Appliance	update-ca-certificates

For example for the Ubuntu Virtual Appliance:

sudo update-ca-certificates

7. For the Ubuntu Virtual Appliance you can now exit the SSH console. For Red Hat/ Rocky Linux a reboot of the host running the PeerIQ software is required.

Note: LDAPS will not connect using self-signed certificates unless the certificate is imported into PeerIQ's trust store. If you encounter an error, it will be displayed as Failed to open socket within the User Interface next to the **Test** button.

Active Directory	
Server URL	
ldaps://adtest.example.com:636	
Authentication	
LDAPS	-
Service Domain	
example.com	
Service Username	
Administrator	
Service Password	
Save Test Failed to open socket	

Additionally, navigating to the Logs from the left menu will show the error:

LDAP Socket Open Error: ("('socket ssl wrapping error: [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: unable to get local issuer certificate (_ssl.c:1131)',)",)

	Export to CSV
Show 10 - entries	Search:
Tag ? Time : Priority : Message	
OverviewLogger: 2023-08-31 08:25:50 error LDMP Socket Open Error: ("('socket ssl wrapping error: [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: unable to get local issuer certificate (_s	ssl.c:1131)',)",)
Showing 1 to 3 of 3 entries	Previous 1 Next

Configuring the Connection to the LDAP Server Use the LDAP Configuration card to configure the connection to your Active Directory or OpenLDAP server.

PER.	■ LDAP Configuration	
Y Environment Monitor <	LDAP Configuration	
📰 File System Analytics 🛛 🔇		
File Activity Analytics <	Active Directory	
Administration	Idaps://dc.example.com:636	
😫 User Accounts	Authentication	
O System Stats	LDAP v	
目 Logs	Service Domain	
System Configuration	example.com	
1621 Broker Configuration	admin	
BIOKER Configuration	Service Password	
EDAP Configuration		
Software Updates	User Search Base	
≡ Software Status	Service Domain	
€ Help <	Save Test	
	Resolve LDAP Information	
	Resolve user and denartmental information from the I DAP server for File Activity Analytics data views	
Licenses Feedbackii		

To configure the connection:

- 1. Using your Administrator account, open the **User Accounts** page.
- 2. In the LDAP Configuration card, select either Active Directory or OpenLDAP in the first field.
- 3. Fill out the remaining fields based on your selection:

For Active Directory:

- Server URL: The URL of the LDAP server (e.g., Idap://dc.london.local:389).
- Authentication: The authentication type for the LDAP connection.
- Service Domain: The domain for the service user account.
- Service Username: The username for the service user account.
- Service Password: The password for the service user account.
- User Search Base: This setting defines the starting point in the Active Directory (AD) tree where searches for user objects will begin. Selecting Service Domain will search at the start of the domain specified in the "Service Domain" field. Selecting UPN Suffix will use the search base, derived from the portion of the username following the "@" symbol, to search the domain. For example, assume your Service Domain is set to example.com. If a user's login name is fred@management.example.com and the User Search Base is set to use the Service Domain, the search will start at DC=example,DC=com, not DC=management,DC=example,DC=com. If the User Search Base is set to use UPN Suffix, the search will start at DC=management,DC=com.

For Open LDAP / Red Hat Identity Management (IdM) :

- **Server URL**: The URL of the LDAP server (e.g., Idap://dc.london.local:389).
- Service Domain: The domain for the service user account.
- Service Username: The username for the service user account.
- Service Password: The password for the service user account.
- User Object Class: The unique identifier for the user's object class.
- **Username Attribute**: The unique attribute for identifying a username.
- User Search Base: The root domain where users are configured.
- 4. Click **Test** to perform a test connection to the LDAP server.
- 5. Click Save.

9.2.2 Resolving NFS Usernames using the Resolve LDAP Information option

The usernames displayed on File Activity Analytics pages depend on your environment's configuration. Windows-based Agents automatically resolve Security Identifiers (SIDs) to usernames for SMB client activity. However, Linux-based Agents do not automatically resolve User Identifiers (UIDs) or SIDs. PeerIQ can resolve usernames for Linux-based Agents if the UIDs and SIDs are properly mapped to usernames via LDAP or Active Directory (AD).

This section guides you through verifying your environment and configuring PeerIQ for username resolution.

Prerequisites

- An LDAP or AD server is used for user authentication.
- Users accessing NFS exports authenticate against the same LDAP/AD server used by PeerIQ.

- Linux clients must use UIDs and Group Identifiers (GIDs) provided by the LDAP/AD server.
- If using AD, ensure Unix attributes are configured.

Configuring PeerIQ for Username Resolution

Step 1: Verify LDAP Credentials in PeerIQ

- 1. Log in to the PeerIQ dashboard.
- 2. Navigate to Administration > LDAP Configuration.
- 3. Confirm that LDAP/AD server credentials are correct.

Step 2: Enable Username Resolution

- 1. Within the LDAP Configuration page, check **Resolve LDAP Information**.
- 2. Click **Save**.

Verifying Environment Configuration

Active Directory: Verifying Unix Attributes AD users must have Unix attributes configured. Verify this with the following PowerShell command:

Get-ADUser -Identity "User1" -Properties uidNumber, gidNumber, loginShell, unixHomeDirectory, msSFU30NisDomain \|

Select-Object uidNumber, gidNumber, loginShell, unixHomeDirectory, msSFU30NisDomain

Correct output example:

```
uidNumber : 1001
gidNumber : 1001
loginShell : /bin/bash
unixHomeDirectory : /home/User1
msSFU30NisDomain : nisdomain
```

• Ensure that PeerIQ and your NFS clients belong to either the same Active Directory (AD) domain or to domains within the same AD forest that have established trust relationships.

OpenLDAP and Red Hat Identity Management Considerations Ensure that PeerIQ and all clients authenticate against the same LDAP server. If multiple LDAP servers are used, synchronize user data to maintain consistent UIDs and GIDs across the environment.

Linux Client Configuration

Verify Linux clients use LDAP/AD-provided UIDs and GIDs by checking /etc/sssd/sssd.conf:

1. Open the file:

sudo nano /etc/sssd/sssd.conf

2. Ensure the [domain/default] section includes:

ldap_id_mapping = False

3. Restart the SSSD service:

sudo systemctl restart sssd

This configuration ensures that the system directly utilizes UIDs and SIDs provided by LDAP or Active Directory (AD).

9.2.3 Resolving Active Directory (AD) Departments using the Resolve LDAP Information option

The **Department** filter shown on the File Activity Analytics pages is dependent on your environment's LDAP configuration.

This guide explains how to verify your environment settings and configure PeerIQ to resolve user departments using LDAP.

Prerequisites Ensure the following before proceeding:

- An Active Directory (AD) server configured for user authentication.
- Users authenticate using the same AD server configured in PeerIQ.
- Users have their **Department** attribute configured in the AD server. Verify this by running the following PowerShell command on the AD server:

```
Get-ADUser -Identity "jdoe" -Properties Department | Select-Object Name, Department
```

Configuring PeerIQ for Department Resolution

Step 1: Verify LDAP Credentials

- 1. Log into the PeerlQ dashboard.
- 2. Navigate to Administration > LDAP Configuration.
- 3. Confirm that your AD server credentials are valid.

Step 2: Enable Department Resolution

- 1. On the LDAP Configuration page, select the Resolve LDAP Information checkbox.
- 2. Click **Save** to apply your changes.

9.3 Logs Page

The **Logs** page displays a table of log entries and enables you to send diagnostics to Peer Software Support. It is accessible only to Administrator accounts.

PER.	≡ Logs					? admin ~
Y Environment Monitor 🗸	Start Date	End Date			Send Diagnostics	Save Diagnostics
🚍 File System Analytics 🛛 🗸	mm/dd/yyyy	mm/dd/yyyy		Select log levels Submit	Send	Download
🖥 File Activity Analytics 🛛 🗸						Export to CSV
🛓 Administration 🗸 🗸	Show 10 v entries					Search:
fat Lines America	Tag	÷ Time ÷	Priority	Message		
Ser Accounts	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
Osystem Stats	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
E Logs	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
System Configuration	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
• -,	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
Roker Configuration	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
ELDAR Configuration	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
EDAP Configuration	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
Software Updates	OverviewLogger:	2025-04-25 13:18:51 UTC	info	Example log message.		
≡ Software Status	Showing 1 to 10 of 257	entries			Previous 1 2	3 4 5 26 Next
●Hep <						

The Log table displays the most recent 5,000 log entries. You can:

- Filter the log table using the date fields and log levels.
- Change the number of entries displayed in the table.
- Export the current log view to a CSV file by clicking Export to CSV.
- Search for specific log entries within the current view.
- Send diagnostic information to Peer Software support.

9.3.1 Filtering Log Contents

Use the date and log level filters to refine the data displayed in the Log table.

To filter the log data:

- 1. Open the Logs page.
- 2. Select a start date and end date.
- 3. Click **Select logs level**, and then select the types of log entries to be displayed.
- 4. Click **Submit** to enable the filters.

9.3.2 Sending Diagnostics

You can send a diagnostics file to Peer Software support. A connection to the internet is required for a successful upload.

To send the diagnostics file:

- 1. Open the **Logs** page.
- 2. In the Send Diagnostics card, click the Send button.

The Confirm Send Diagnostics dialog opens.

logs, to Peer Software support.	lata, including syste
Region	
United States	~
Content to send	
 Send diagnostics information that only ca and code level diagnostics with no perso 	ontains operational nal data.
Send data that has been recorded by Pee system Analytics, File Activity Analytics a Monitoring. (No volume/host/user/file na	rlQ relating to, File and Environment ames are sent)
	ormation such as the

- 3. Select the region closest to the PeerIQ appliance for faster uploads.
- 4. In the **Content to send** section, select the levels of diagnostic data to send Peer Software Support:
 - Operation and code level diagnostics (if using the Ubuntu-based PeerlQ virtual appliance, this will also include system logs)
 - File System Analytics and Environment Monitoring
 - Configuration settings information

Note: No passwords will be included in the diagnostic logs sent to Peer Software Support.

Upon completion, a success message is displayed, and the diagnostics file is stored in the selected region.

9.3.3 Saving Diagnostics

You can save a diagnostics file for your own records or to send it to Peer Software Support if PeerIQ is unable to establish an internet connection.

To save the diagnostics file:

- 1. Open the **Logs** page.
- 2. In the **Save Diagnostics** card, click **Save**.

The Confirm Save Diagnostics dialog opens.

Со	ntent to save
<	Save diagnostics information that only contains operational and code level diagnostics with no personal data.
	Send data that has been recorded by PeerIQ relating to, File system Analytics, File Activity Analytics and Environment Monitoring. (No volume/host/user/file names are sent)
	Save data that could contain internal information such as th broker IP address, configuration settings for LDAP. No

- 3. In the **Content to save** section, select the levels of diagnostic data to save:
 - Operation and code level diagnostics (if using the Ubuntu-based PeerIQ virtual appliance, this will also include system logs)
 - File System Analytics and Environment Monitoring
 - Configuration settings information
- 4. Click Save.

Note: No passwords will be included in the downloaded diagnostic logs.

Upon completion, a success message is displayed. The file will be in a compressed tar.gz format; uncompress it to access the logs in CSV format. Depending on the level of content saved, other diagnostic files in JSON format will be in folders named after their corresponding PeerIQ component.

9.4 Software Status Page

The **Software Status** page provides information about PeerIQ containers, and controls for starting, stopping and restarting PeerIQ containers.

The page must be accessed from the **Service Administration** for the container controls to be activated.

PER.	≡ Software Status						? admin
Y Environment Monitor <	Coffuero Convisco						
🚍 File System Analytics 🛛 🔇	Software Services						
🔓 File Activity Analytics 🛛 🔇	Start All Stop All Restart All	gate to the <u>Service Administration</u>	<u>on.</u>				
🛓 Administration 🗸 🗸							Search
Ser Accounts	Service	Version	State	÷ Health	Uptime	Unexpected Restarts	
	DB-ts-environment	6.1.0.0	running	healthy	49m	Θ	C
Ø System Stats	db_fsa_nosql	6.1.0.0	running	healthy	49m	Θ	C C
P Logo	db_faa_ts	6.1.0.0	running	healthy	49m	0	• C
Elogs	brokerinternal	6.1.0.0	running	healthy	49m	0	C C
System Configuration	rsyslog	6.1.0.0	running	healthy	lm	0	C
	rsyslog-mysqldb	6.1.0.0	running	healthy	1m	Θ	C
Broker Configuration	brokercomm	6.1.0.0	running	healthy	48m	Θ	• C
E LDAP Configuration	broker_blob_message	6.1.0.0	running	healthy	4m	4	C
	cron	6.1.0.0	running	healthy	48m	0	C
Software Updates	monitor	6.1.0.0	running	healthy	49m	Θ	C'
	sv_accounts_flask	6.1.0.0	running	healthy	1m	Θ	C
≡ Software Status	sv_faa_flask	6.1.0.0	running	healthy	48m	Θ	• C
🛛 Help 🗸	sv_fsa_flask	6.1.0.0	running	healthy	48m	0	C
	sv_diagnostics_flask	6.1.0.0	running	healthy	49m	0	C
	ui_login_flask	6.1.0.0	running	healthy	1m	0	■ C'
	ui_envmonitor_flask	6.1.0.0	running	healthy	48m	0	C
	ui_help_flask	6.1.0.0	running	healthy	48m	0	C'
	ui_logger_flask	6.1.0.0	running	healthy	48m	0	C
	ui_config_reset	6.1.0.0	running	healthy	48m	0	C
	ui_fsa_flask	6.1.0.0	running	healthy	48m	0	C
	ui_faa_flask	6.1.0.0	running	healthy	48m	0	C
enses Feedbackii	nginx	6.1.0.0	running	healthy	48m	0	

Card	Description
Software Services	Provides controls for stopping, starting, and restarting all services. Each service represents a container. The table displays a list of all running services, along with their individual version, state, health, uptime, and the total number of unexpected restarts. Controls are provided to start, stop, and restart individual services.

9.5 Software Updates Page

The **Software Updates** page provides options and information for upgrading to new PeerIQ versions, including release notes and compatibility details.

Environment Montar	PER.	≡ Software	Updates		admin
File System Analytics C File Activity Analytics C Administration C * Chronic Mignation C * Chronic Mignation C * Chronic Mignation C * Chronic Mignation C * System Configuration C * System Configuration C * System Configuration C * System Stats C * Configuration C * System Stats C * System Stats C * Configuration C * Other C	Y Environment Monitor <				
File Activity Analytics Current Version 6.0.0.1 (details) Setter Configuration Backer Configuration </td <td>🚍 File System Analytics 🛛 🗸</td> <td>PeerIQ Updates</td> <td></td> <td></td> <td></td>	🚍 File System Analytics 🛛 🗸	PeerIQ Updates			
Select Major Version: Select Major Version: * User Accounts * User Accounts * User Accounts * User Accounts * Optimization • System Configuration • System Configuration • System Stats • Colo 2 • Software Updates Metric <td>B File Activity Analytics</td> <td>Current Version 6</td> <td>5.0.0.1 <u>(details)</u></td> <td></td> <td></td>	B File Activity Analytics	Current Version 6	5.0.0.1 <u>(details)</u>		
 Administration Administration Broker Configuration Budate Autable Minor Versions and Patches: Sector Configuration System Configuration System Configuration System Stats Logs Software Updates Update 		Select Major Version:	6.0 ~		
New Row Configuration Brek Row Configuration Book 47 5.2 	Administration	Available Minor Versi	ons and Patches:		Release Notes:
• bip decision when the bip decision whence the bip decision whence the bip decision whence	Rever Configuration	PeerlQ Version	Upgradeable from	Compatible PMC Versions	-Release 6.0.0.47. Added a new Data Aning nage under File System Analytics to get an understanding of the age of data
BLDAP 6.0.0.37 5.2	불 User Accounts	6 .0.0.47	5.2	5.2.0.20230814 - 6.0.0.20240524	Added a new Hot Data Analysis page under File System Analytics to get an understanding of the get of data. Added a new Hot Data Analysis page under File System Analytics to get an understanding of hot data.
 \$ System Configuration \$ \$ 0.0.36 \$ 2 \$ \$ 202222314 < \$ \$ \$ \$ \$ 202222314 < \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	E LDAP	6.0.0.37	5.2	5.2.0.20230814 - 6.0.0.20240524	Added a new Scans page under File System Analytics to see which scans have run against which file servers.
	Surtem Configuration	○ 6.0.0.36	5.2	5.2.0.20230814 - 6.0.0.20240524	Added the ability to use previous license key data to help with usage predictions. Added the ability to set the time zone of the displayed data.
Image: System Stats	System Configuration	○ 6.0.0.35	5.2	5.2.0.20230814 - 6.0.0.20240524	Added links from the Environment Overview page to affected jobs or agents.
Image: Software Updates 0.0.20 5.2 53.0302000000 Fixed Agent selection when changing graph tabs. Fix to scans where 0 byte files are accessed or modified and do not change in size. Image: Software Updates Update Fixed Agent selection when changing graph tabs. Image: Software Updates Update Fixed Agent selection when changing graph tabs. Image: Software Updates Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs. Image: Software Update Update Fixed Agent selection when changing graph tabs.	Ø System Stats	0 6.0.0.34	5.2	5.2.0.20230814 - 6.0.0.20240524	Fixed data sorting order in tables.
Software Updates Update Update Update	E Logs	○ 6.0.0.20	5.2	5.2.0.20230814 - 6.0.0.20240524	Fixed Agent selection when changing graph tabs. Fix to scans where 0 byte files are accessed or modified and do not change in size.
O Rep <	O Software Updates	Undate			
	A Help	Opdate			

9.5.1 Software Updates Page Cards

The **Software Updates** page contains one card:

Card	Description			
Software Updates	Displays information about available PeerlQ upgrades.			
	• Current Version : Shows the PeerIQ version currently in use. Click the details hyperlink to access the Peer Software website for additional information about your current version.			
	• Select Major Version: Use the dropdown box to choose the major PeerIQ version you want to upgrade to.			
	• Release Notes : Lists release notes for the selected minor version or patch.			
	• Available Minor Versions and Patches: Displays the following information:			
	 PeerIQ Version: You can select the desired PeerIQ version for the update by clicking the radio button next to the version name. 			
	 Upgradable From: Indicates the lowest PeerIQ version that can be upgraded to this version. 			
	 Compatible PMC Versions: Lists PMC versions compatible with this PeerIQ version. 			

9.5.2 Updating PeerIQ

To update PeerIQ, follow these steps:

1. Choose the PeerlQ version to update to.

PER.		≡ Software	Jpdates		🌒 😩 admin 🗸
Y Environment Monitor	<	PeerIO Versions			
📰 File System Analytics	<	Current Version: 6.	2.0.66 (details)		
File Activity Analytics	<	Select Major Version:	62 ¥		
Administration	\sim	Available Minor Version	s and Patches:		Release Notes:
😫 User Accounts		PeerlQ Version	Upgradeable from	Compatible PMC Versions	-***Second Release Candidate for v6.2.0***
Ø System Stats		0 6.2.0.66	6.1	6.0.0.20240402	-Resolved an issue causing certain Dell NAS devices to display incorrectly on FSA pages.
E Logs		0 6.2.0.53	6.1	6.0.0.20240402	-Linandeu nataliei experience on reu nat systems.
System Configuration		6.2.0.35	6.1	6.0.0.20240402	
📾 Broker Configuration		Update			
E LDAP Configuration					
Software Updates					
≡ Software Status					
Help	<				

2. Click the **Update Button** to start the update process.

A dialog prompting you to confirm the update will appear.

3. Click **Proceed** to open a new login screen for the software.

The PeerIQ Service Administration login page has a yellow background and a different title from the standard PeerIQ web console. It can be accessed directly via https://<peeriqIP>:4443.

4. Log in to the PeerIQ Service Administration portal. The download for the selected PeerIQ version will begin automatically.

Note: The credentials required for accessing PeerIQ Service Administration differ from those used for the PeerIQ web console. For Virtual Appliances, use the same credentials that are used to log in via the virtual appliance console or through SSH. The default credentials are:

Username: peersoftware, Password: password. These defaults are typically updated during the initial deployment of the virtual appliance. For Red Hat installs, you may use the same credentials that were used during the installation of PeerIQ, or any user account that has sudo privileges.

5. Confirm the update by clicking **Yes** once the download completes.

Installing PeerlQ version 6.1.0.2		
Process step: Download complete Process status: Completed	Cenc	el
	Begin update The update process will take up to 5 minutes, during which time no data will be collected. Do you wish to proceed? Cancel Proceed	

PeerIQ will be updated to the selected version.

6. After updating PeerIQ, a notice to update the service container will appear. If no action is taken within five seconds, the service container update is automatically performed. Clicking **Cancel** during that five second window will skip the service container update.

Installing PeerlQ version 6.1.0.2		
Process step: Clean complete Process status: Completed		Cancel
	Update completed Software update completed successfully. The Software updater will now be upgraded from 6.1.0.1 to version 6.1.0.2.	
	Automatically proceeding in 5 seconds	
	Proceed	

After installation, the PeerIQ login page is redisplayed.

9.6 System Configuration Page

The **System Configuration** page allows an Administrator to perform a complete reset, which includes erasing configuration parameters such as usernames and passwords, as well as clearing any data that has been collected from the PMC. Once the data has been erased, it cannot be recovered.



The System Configuration page has five cards:

Card	Description
Reset Configuration Options	Use this card to restore initial configuration values.
Environment Monitor Data	Use this card to select the PMC for the Environment Monitoring pages and to delete all data from these pages.

Card	Description	
File System Analytics Data	le SystemUse this card to refresh or delete File System Analytics data viewnalytics DataPeerlQ.	
File Activity Analytics Data	tivity Use this card to delete File Activity Analytics data views in PeerlQ. cs Data	
Time Settings	Use this card to set the global time zone for displayed dates and times. This default is used by all users but can be changed on a per-user basis.	

9.6.1 Resetting Configuration Options

This **Reset Configuration Options** card enables you to revert all parameters to the default settings, as initially configured when the product was first deployed. This includes:

- Broker configuration: The existing broker connection will be stopped.
- **Overview cards**: All customizations made to Warning and Danger thresholds will be restored to the default values.
- User accounts: All LDAP configurations will be deleted, including all user accounts and their associated settings (such as time zone). This will restore the default credentials:
 - Username: admin
 - Password: password

After resetting the configuration options, you will be logged out of the PeerIQ system.

9.6.2 Managing Environment Monitor Data

To manage Environment Monitor data, use the following options on the **Environment Monitor Data** card:

- Set PMC: Click this button to choose which PMC is used for the Environment Monitor pages. First, select a PMC or Currently Active from the dropdown menu. Currently Active will use the PMC that was most recently connected for the first time. Then, click Set PMC to apply your selection.
- Delete all Environment Monitor data: Click this button to erase all Environment Monitor data, including PMC, job, Agent, and license data, effectively clearing it from the system.

9.6.3 Managing File System Analytics Data

Agents in your PeerGFS environment scan the file system of volumes with active jobs. To manage the collated data sent to PeerIQ, use the following options:

- **Process Scan Data**: If the processing of the scanned file system data is interrupted, click this button to restart the process and refresh the data on the pages.
- Delete all File System Analytics data: Click this button to erase all scanned file system data from the File System Analytics pages, including Scan Data and Extensions Data, effectively clearing it from the system.

9.6.4 Managing File Activity Analytics Data

To manage File Activity Analytics data, use the following option on the File Activity Analytics card:

• Delete all File Activity Analytics Data: Click the button to delete all File Activity Analytics data, including username data.

9.6.5 Managing Time Zone Settings

The **Time Settings** card enables you to set the default time zone that is used on by all users on all pages within the PeerlQ user interface. You can set the time zone using the dropdown menu options to display page elements in either Coordinated Universal Time (UTC) or the time zone of each web browser accessing the pages. While this global setting is the default for all users of the system, each user can set their own time settings after logging in to PeerlQ.

Note: Downloaded logs will always be in UTC format.

9.7 System Stats Page

The **System Stats** page provides an overview of the virtual appliance where PeerIQ is deployed. It enables you to analyze overall performance and monitor the appliance's health. Use this page to identify potential performance issues affecting PeerIQ and gain insights into how the appliance is operating. This page is accessible to Administrators only.

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9.7.1 Using the System Stats Page Controls

This page features line graphs that depict activity trends over time. Use the controls located in the upper right corner of the page to adjust the date range and refresh rate of the displayed information:

- **Range:** Use this to select the desired time range for the line graphs; options range from 1 hour to 4 weeks.
- **Refresh:** Use this to select the interval at which the line graphs automatically refresh; Options are off (graphs will not refresh) or 1 minute.

9.7.2 System Stats Page Cards

The System Stats page contains four cards:

Card	Description
CPU Utilization	Displays a line graph illustrating CPU usage over time, reflecting the selected time range. The graph shows the percentage of CPU used and the average CPU utilization for that period. The average utilization percentage is displayed in the top right of the card. Hover over a data point to view its date and time, as well as the interval it represents, which depends on the range setting. For example, if the range setting is 1 week or longer, the hover box will display "(60 minute average)" below the date and time.
Disk Activity	Displays a line graph showing total disk activity as a percentage over time, reflecting the selected time range. It also shows Bytes per second (B/s) for both disk read and write speeds. The average disk activity time, as a percentage, and the average read and write speeds for the selected time range are shown in the top right of the card. Hover over a data point to view its date and time, as well as the interval it represents, which depends on the range setting. For example, if the range setting is 1 week or longer, the hover box will display "(60 minute average)" below the date and time.
Memory	Displays a line graph representing memory usage over time, with the total amount of memory assigned to the virtual appliance. The graph reflects the selected time range, with current memory usage displayed as both a fraction and a percentage in the top right of the card. The graph displays point measurements rather than averages, regardless of the range option selected. The Currently Used values in the headers reflect the most recent data point in the database, rather than just the most recent point in the plot. For example, if the range is set to 1 week, the last point in the Memory plot will be from the most recent hour (on the hour), but the header will display the memory in use as of the most recent minute.
Disk Space	Displays a line graph depicting disk space usage over time, reflecting the selected time range. It includes the total amount of disk space assigned to the virtual appliance. Current disk space usage is shown as both a fraction and a percentage in the top right of the card. The graph displays point measurements rather than averages, regardless of the range option selected. The Currently Used values in the headers reflect the most recent data point in the database, rather than just the most recent point in the plot. For example, if the range is set to 1 week, the last point in the Memory plot will be from the most recent hour (on the hour), but the header will display the memory in use as of the most recent minute.

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9.8 User Accounts Page

You can manage user accounts on the **User Accounts** page.

	PER.		≡ User Accounts		(¹)	(7) 🔹 ad	admi	admin	e admin	3 admin	(?) admin v
۴	Environment Monitor	<	Users								
	File System Analytics	<	Show 10 y antrias								
5	File Activity Analytics	2	Username A Created Date LDAP Admin								
-		`	admin 2025-04-25 🗸								
*	Administration	\sim	Showing 1 to 1 of 1 entries Previous 1 Next								
	💒 User Accounts		Add User Add LDAP User								
	🚯 System Stats										
	Logo										
	System Configuration										
	Roker Configuration										
	E LDAP Configuration										
	Software Updates										
	≡ Software Status										
0	Help	<									
Licen	ses Feedbackii										

The User Accounts page contains one card:

Card	Description
Users	Use this card to view and delete all local users and add LDAP users.

9.8.1 Adding and Removing Users

Use the Users card on the User Accounts page to add, view, and remove users.

Adding a Local User Adding a local user will allow that user to log in to PeerIQ using the specified username and password.

To add a local user:

- 1. Using your Administrator account, open the **User Accounts** page.
- 2. Click the Add User button in the Users card.
- 3. Fill out the fields in the Add User dialog:

- Username: Enter the username for the new user.
- Password: Enter the password for the new user. The user can change this later.
- **Role**: Assign a role to the user within PeerIQ. Roles define what users can do in terms of configuring PeerIQ as well as viewing data and reports. Administrators have full access to PeerIQ, while non-Administrators have limited access to data and reports, and cannot make configuration changes.

Add User	×
Username	
Password	
Role	
User	~
	Close Add User

4. Click Add User.

Adding an LDAP User Before you can add an LDAP user, you must configure the connection to the LDAP Server. For details, see the section Configuring Access for LDAP Users.

Adding an LDAP user will allow that user to login to PeerIQ using their LDAP login credentials.

To add an LDAP user:

- 1. Using your Administrator account, open the **User Accounts** page.
- 2. Click the Add LDAP User button in the Users card.
- 3. Fill out the fields in the Add LDAP User dialog:
 - Domain: Enter the domain to which the user belongs.
 - **Username**: Enter the user's username within the specified domain. Do not include the domain in this field.
 - **Role**: Assign a role to the user within PeerIQ. Roles define what users can do in terms of configuring PeerIQ as well as viewing data and reports. Administrators have full access to PeerIQ, while non-Administrators have limited access to data and reports, and cannot make configuration changes.

Add LDAP User	×
Domain	
Username	
Role	
User	~
	Close Add User

4. Click Add User.

The newly added user will log in using their username, followed by the @ symbol, followed by their domain (e.g., johnsmith@london.local).

Removing a User To remove a user from the system, follow this step:

- 1. Using your Administrator account, open the **User Accounts** page.
- 2. Click the red trash icon at the end of row of the user you want to delete.

Note: The default user cannot be deleted.