So you want to do some logging. . . (PT. 5 Windows File Share Logs)

blog.iso365down.com/so-you-want-to-do-some-logging-pt-5-windows-file-share-logs-3a31a664dde8

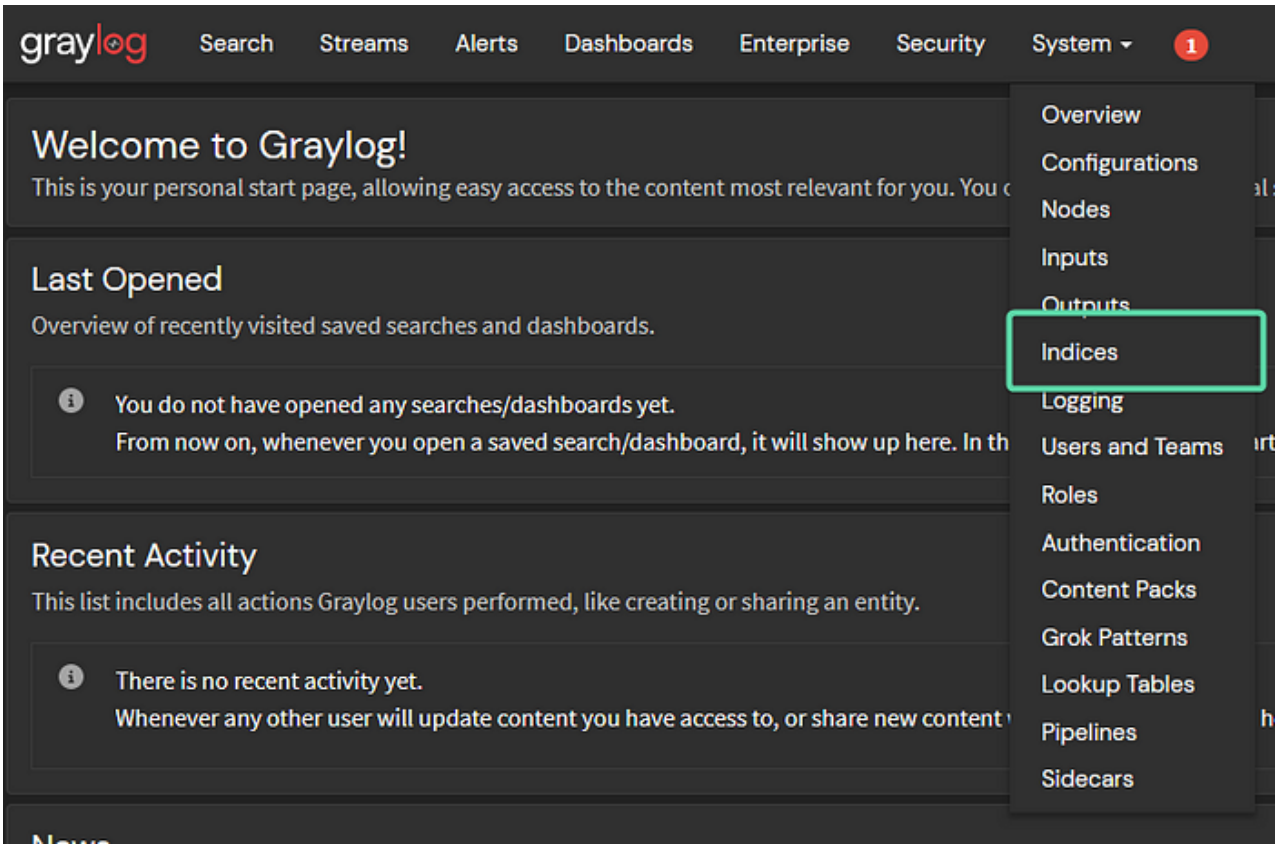
HanSolo71 December 16, 2023

Gotta track those files

Creating a New Index

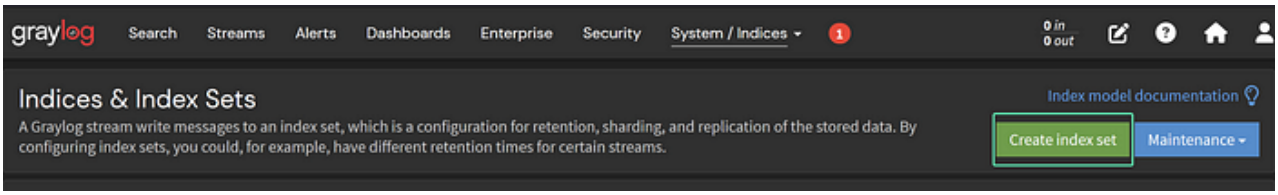
Before moving forward we will want to create a new index in Graylog. Logs from file servers can be very chatty and you may want to change retention based on storage needs.

To make a new index set, use the top menu and select **System > Indices.**



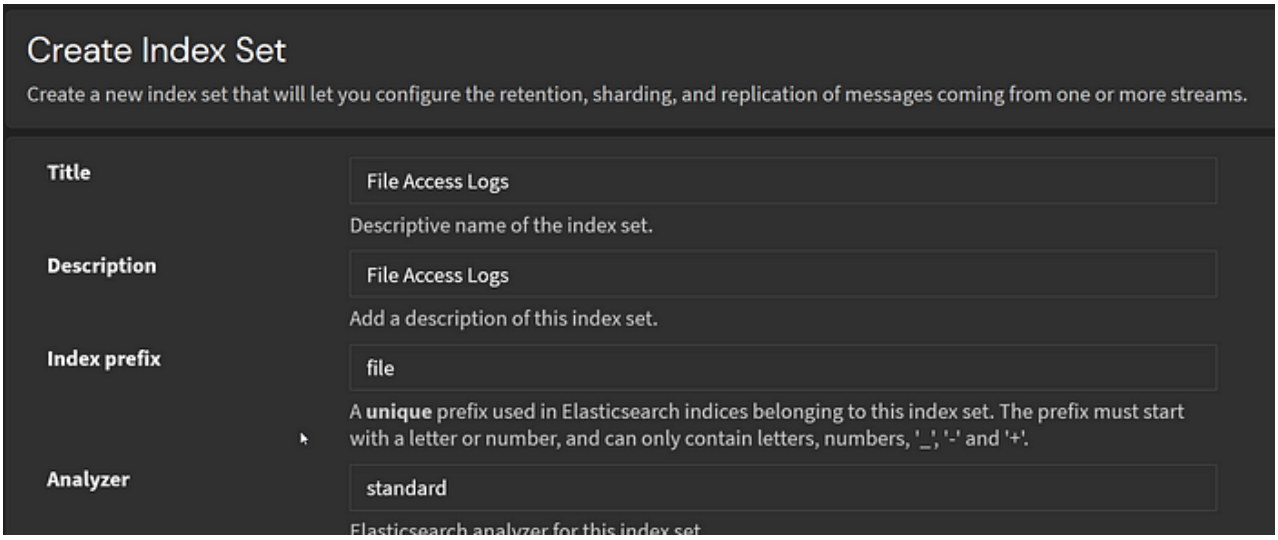
Time for a new index!

Then select **Create index set.**



Make the new index

We will only need to worry about *Title* and *Index prefix* fields along with rotation strategy.

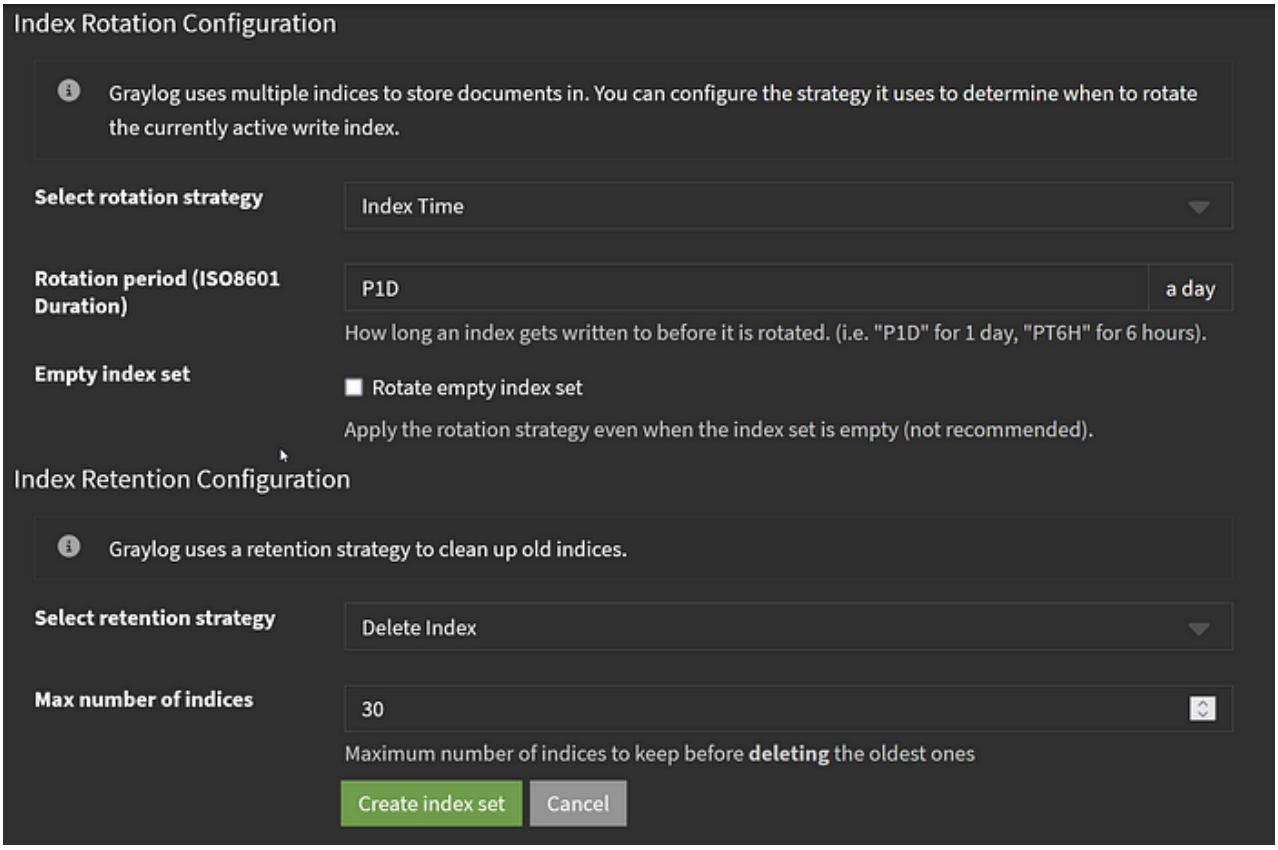


Title the File Share Logs and give them a unique prefix

We want to keep our file access logs for 30 days.

To do this, we will use a rotation strategy of **Index Time** with a duration of **P1D**. We want to set the retention strategy to **Delete Index** and set the max number of indices to 30.

These setting will create a new index every day and delete the oldest index when index 31 is created

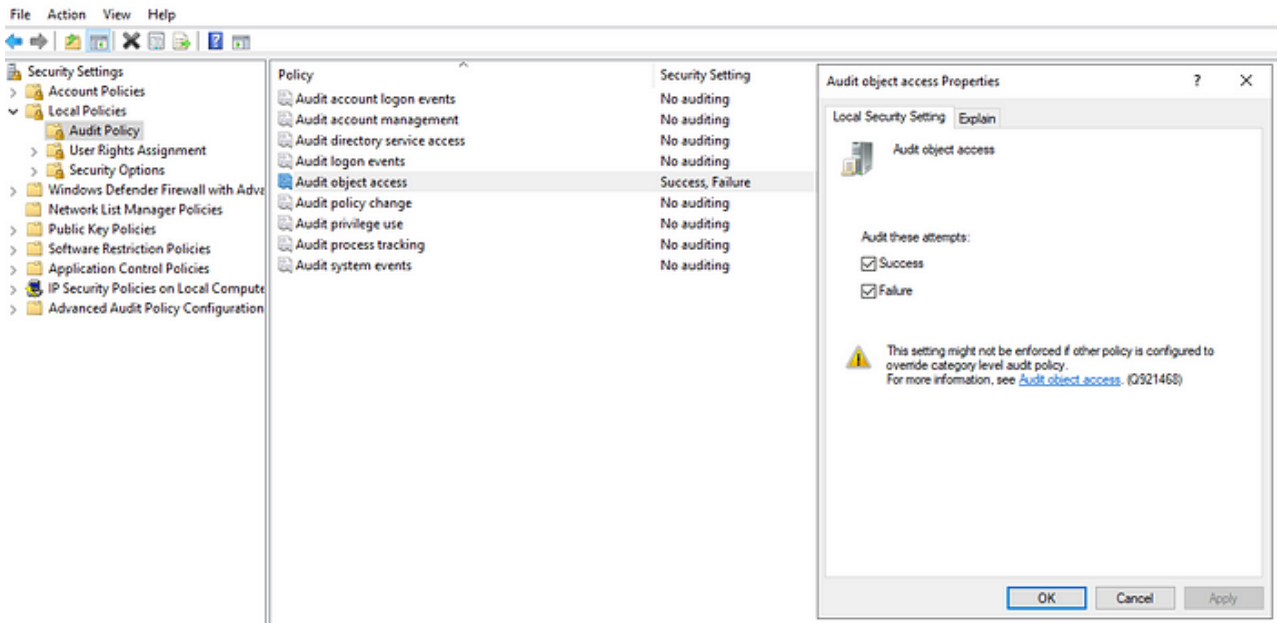


These setting will create a new index every day and delete the oldest index when index 31 is created

Enabling File Auditing in the OS

Before adding any auditing rules to our files we will need to enable **Audit Object Access.** This can be done from **Group Policy** centrally or **Local Security policy** locally.

To start we will want to edit the **Security Policy.** Browse to **Security Settings > Local Polices > Audit Policies.** From there enable **Audit Object Access** on both **Success and Failure.**

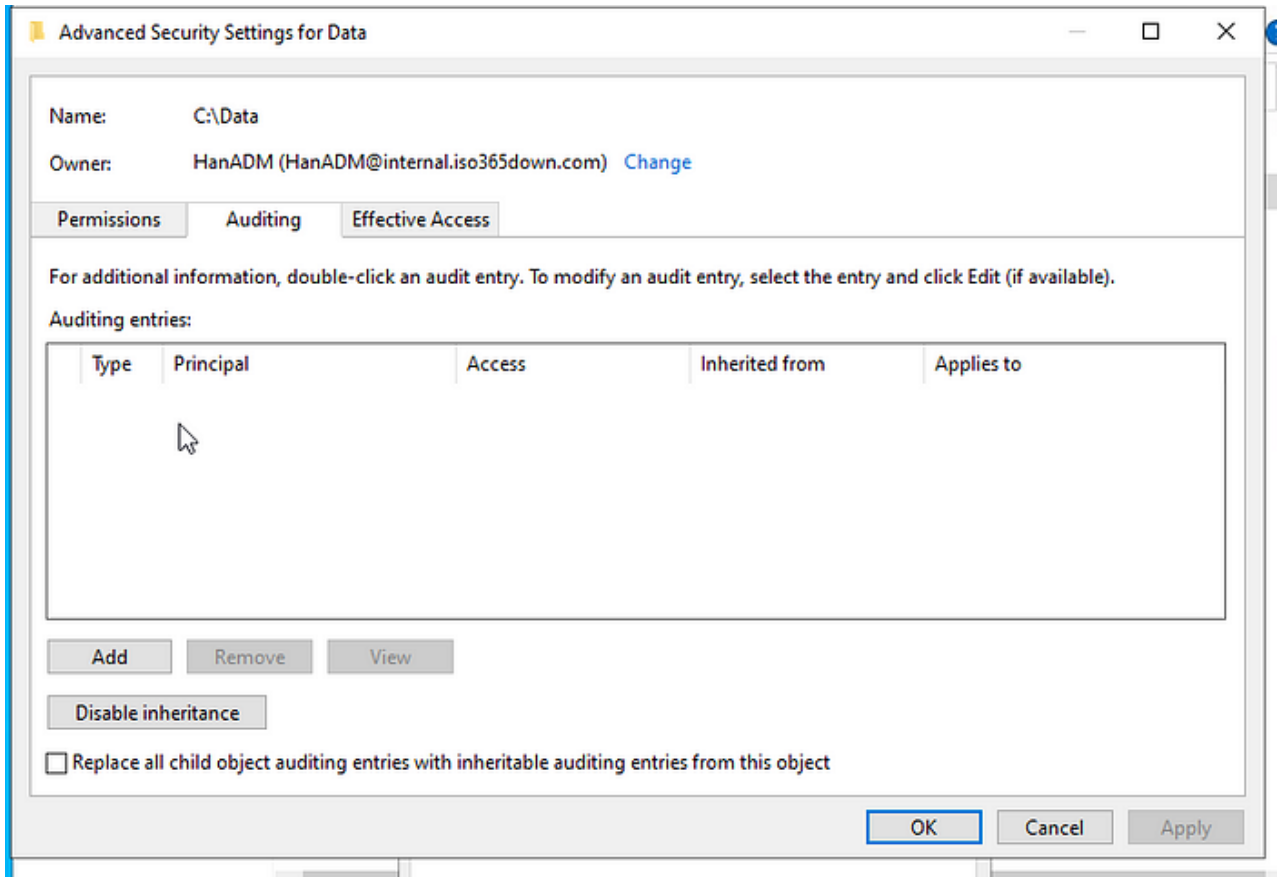


Enabling Object Access Auditing

Enabling Auditing on our Files

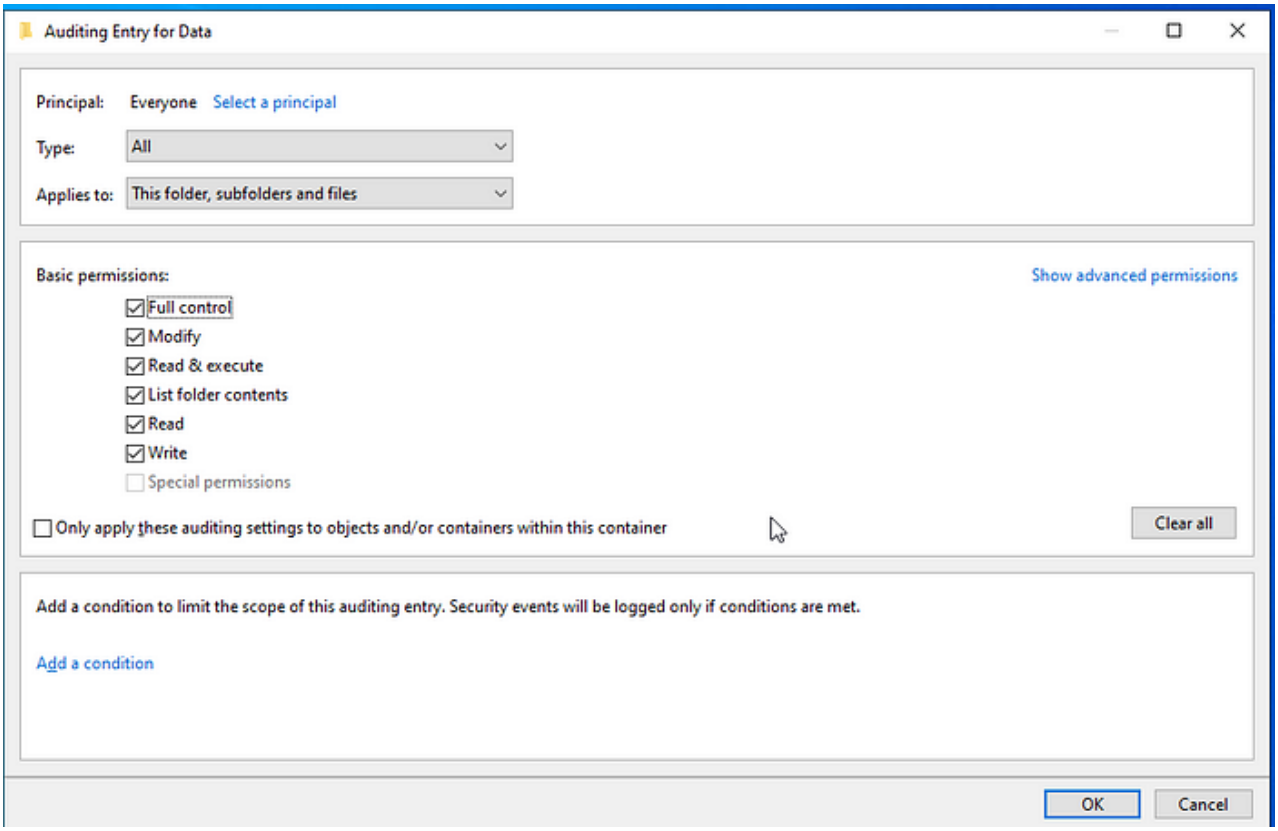
Now we need to enable auditing on files and folders.

To do this, log into any system hosting files whose access you would like to audit. Find the directory you would like to audit, right click and select **properties**, then browse to the **security tab.** Select **advanced** and then view the **Auditing** tab.



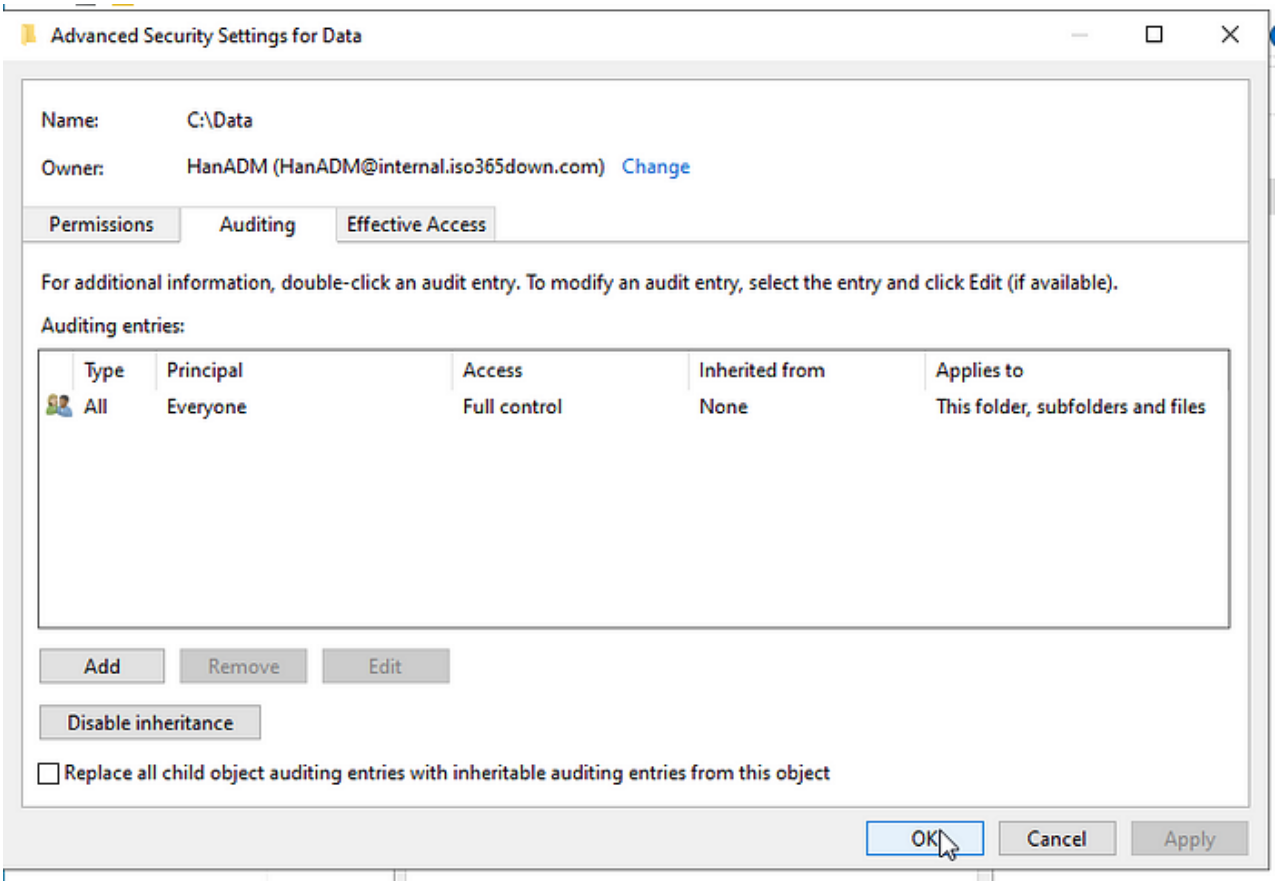
Unless configured the auditing tab will be empty

Add a new auditing entry. This entry will have a principle of **everyone**, audit on **all** actions, and **apply to this folder, subfolders, and files.** We will also want to audit all actions so selection **Full Control.**



Auditing all actions, anyone takes on a folder

If successful the Auditing tab will now appear as with a new entry for **everyone.**

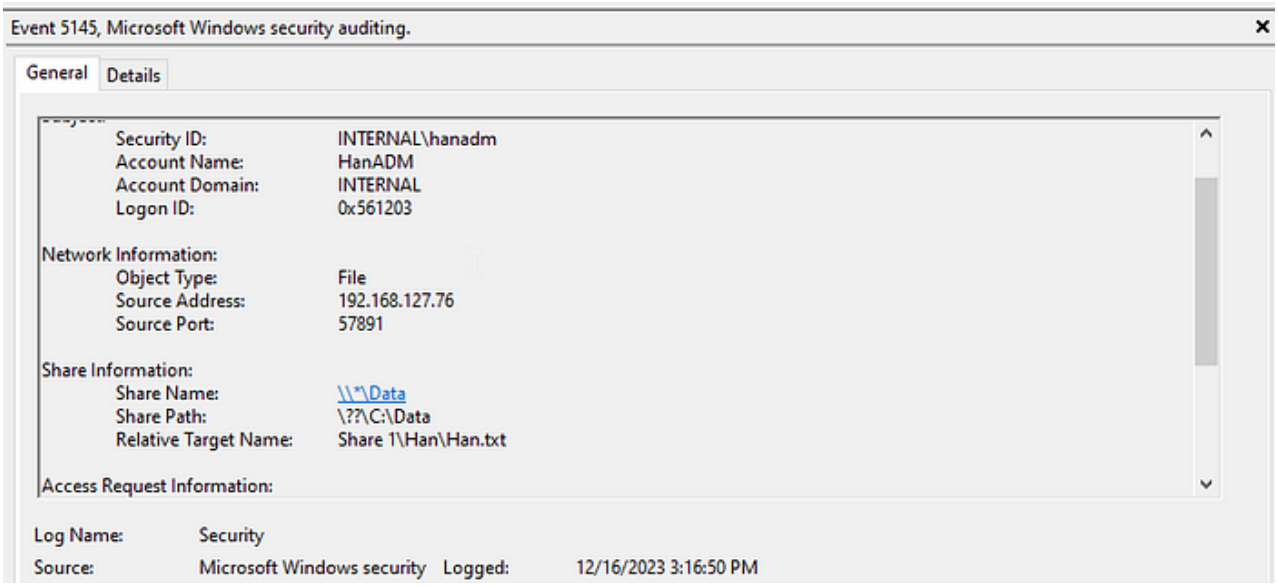


We can now audit various actions that may be done to files

Validating we have logs

Before we install the Graylog Sidecar lets validate our audit rules work.

If we open **Even Viewer > Windows Logs > Security** we can now see users accessing various files.



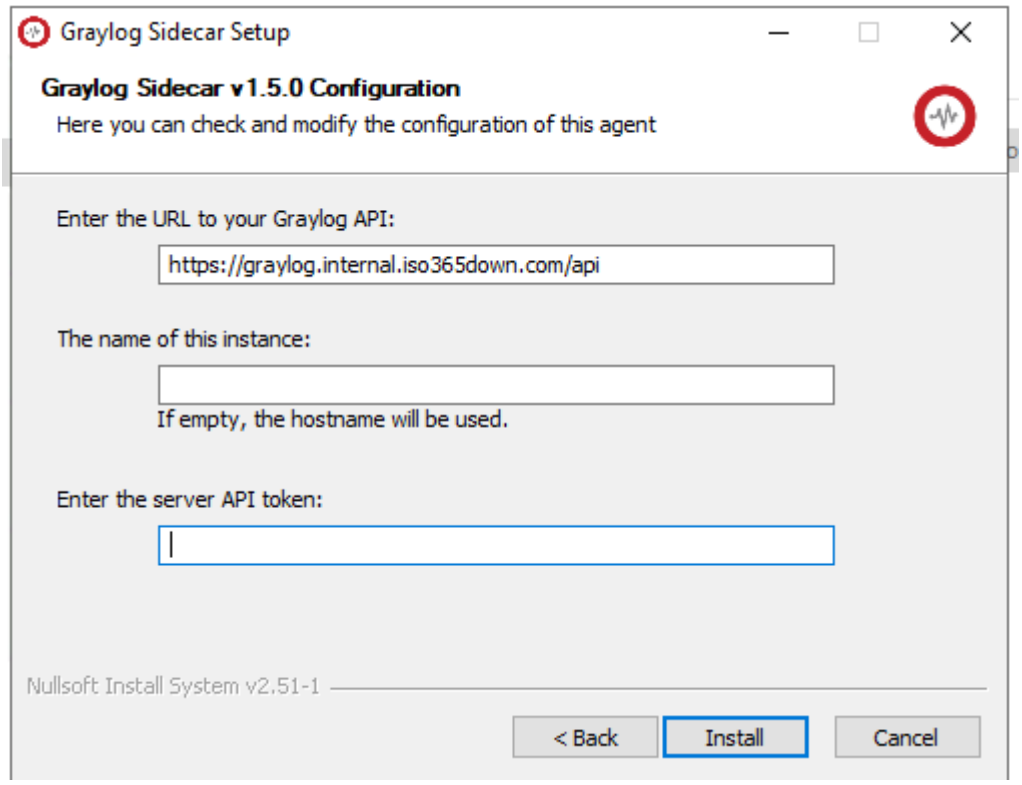
Audit Logs For Files

Windows Graylog Sidecar Install

Because we are using Graylog 5.2.2 we can use the Graylog Sidecar 1.5.0 code. It can be downloaded .

Using the API key we generated in part 4, install the Graylog collector and point it at our Graylog instance.

Make sure you point the system at your Graylog instance using a https://FQDN/api.



Make sure you use the FQDN of the Graylog Server

And let it install and validate it is showing up in Graylog.

The new agent up and running

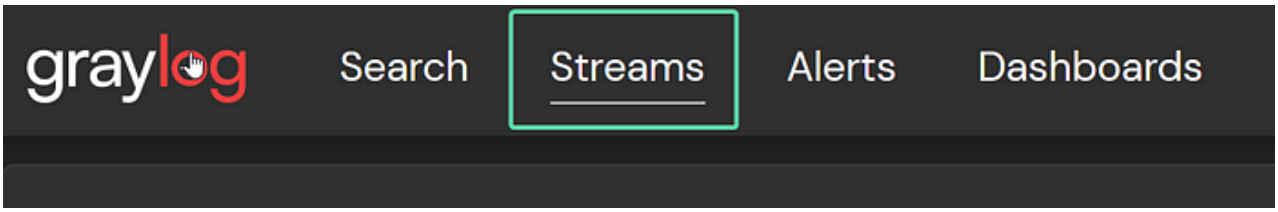
Validate your see data being ingested. Save this **message ID and the index it is stored in.**

Data from our SMB Share server flowing in

With data flowing in, lets create a new data stream to send this new data to the proper index.

Creating a New Data Stream

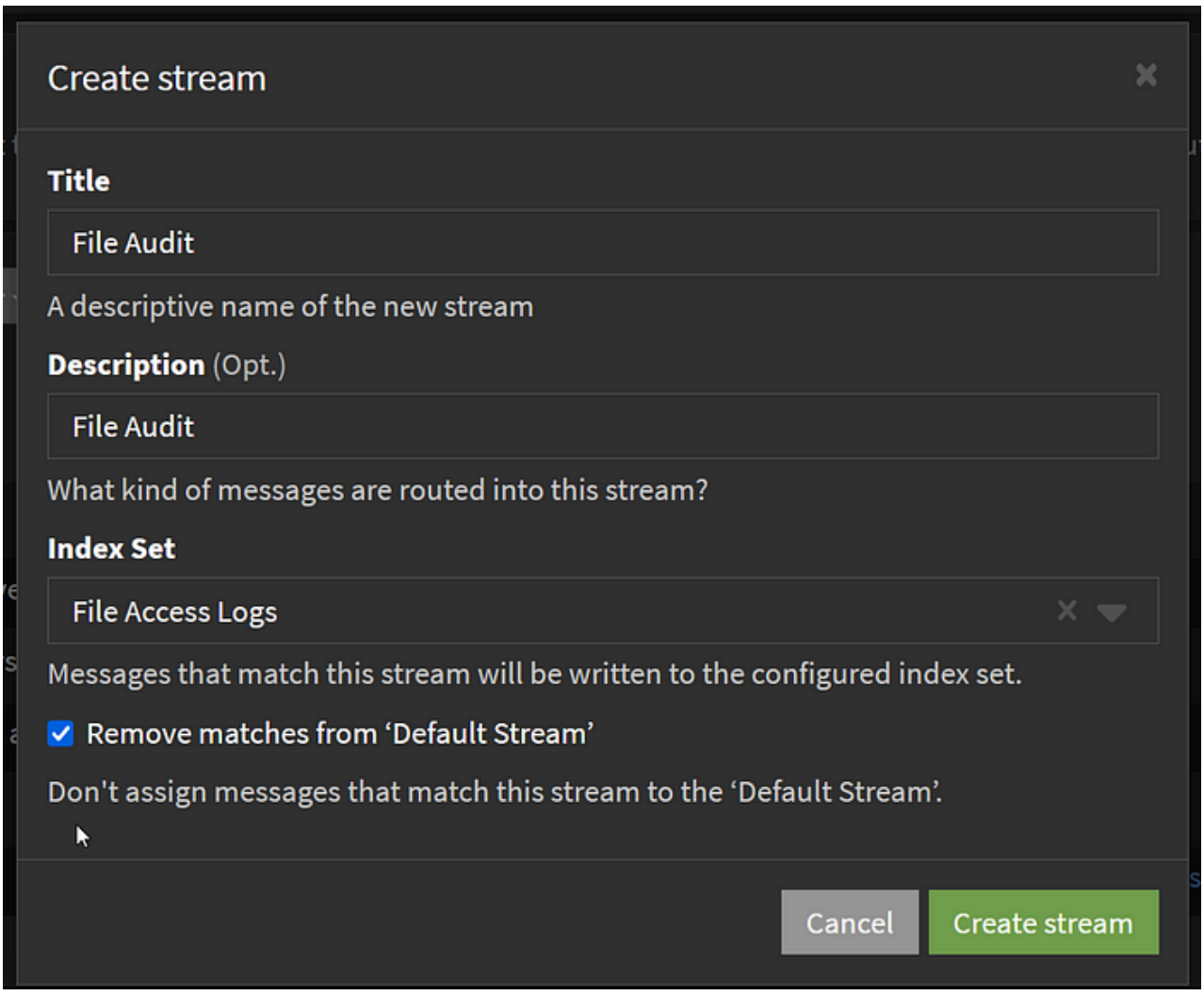
Start by going to **Streams** in the top menu



Creating a new stream

Enter the streams configuration

Create a new stream named File Audit Logs and make sure to route the messages to the File Audit Access index set and remove the messages from the default stream.

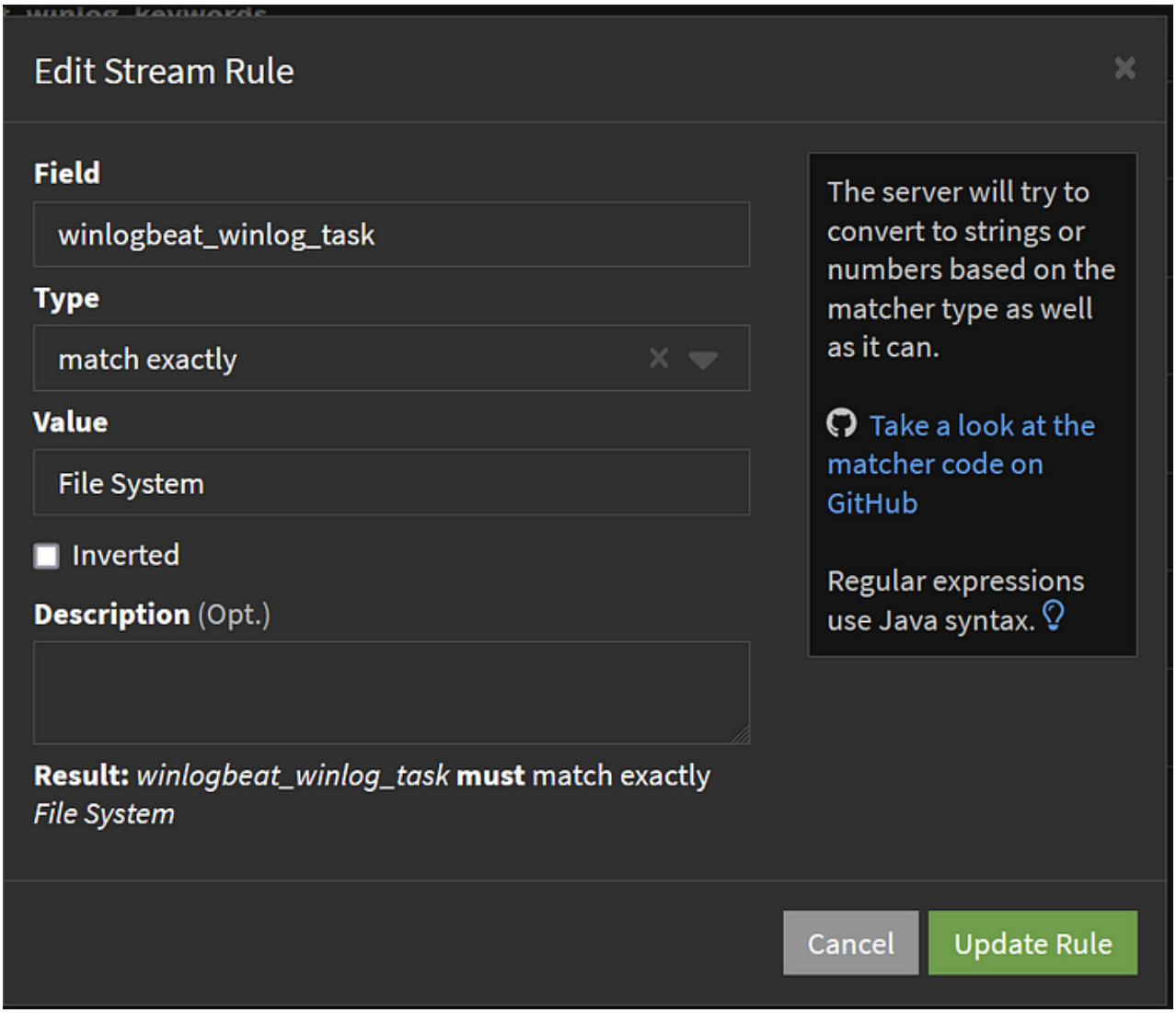


Creating our new stream

Name the stream, set the index set it will send data to, and remove the data from the default stream

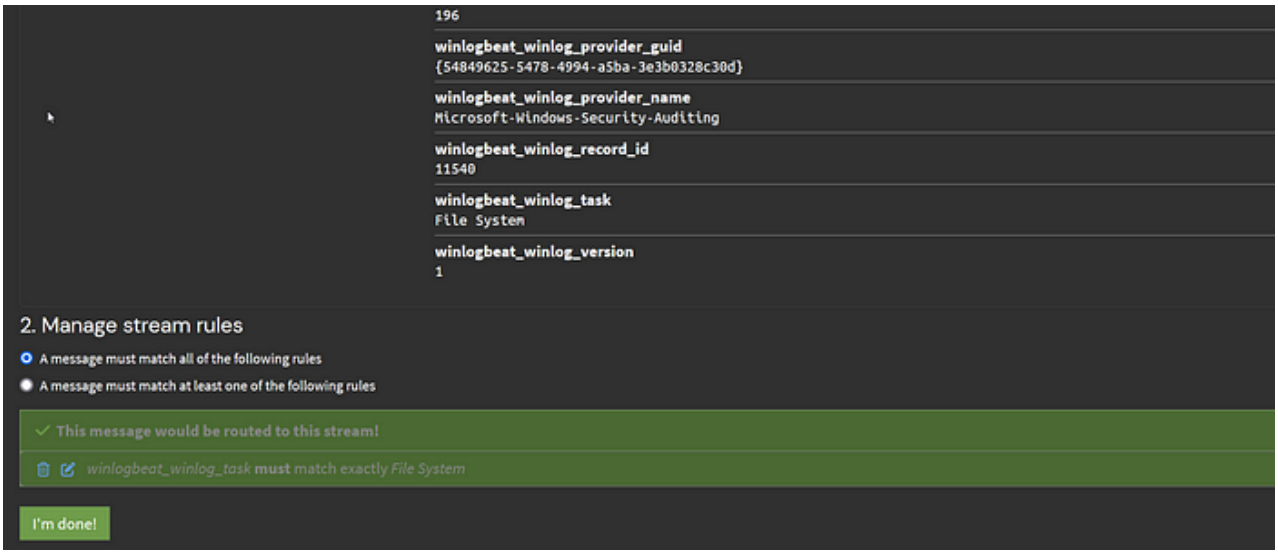
The newly created stream needs rules configured to send data to it. To do this select **More > Manage Rules.**

Taking the Message ID and Index we saved earlier, load a the message to test against. Search for the field *winlogbeat_winlog_task* and make a rule matching the field name *File System.*



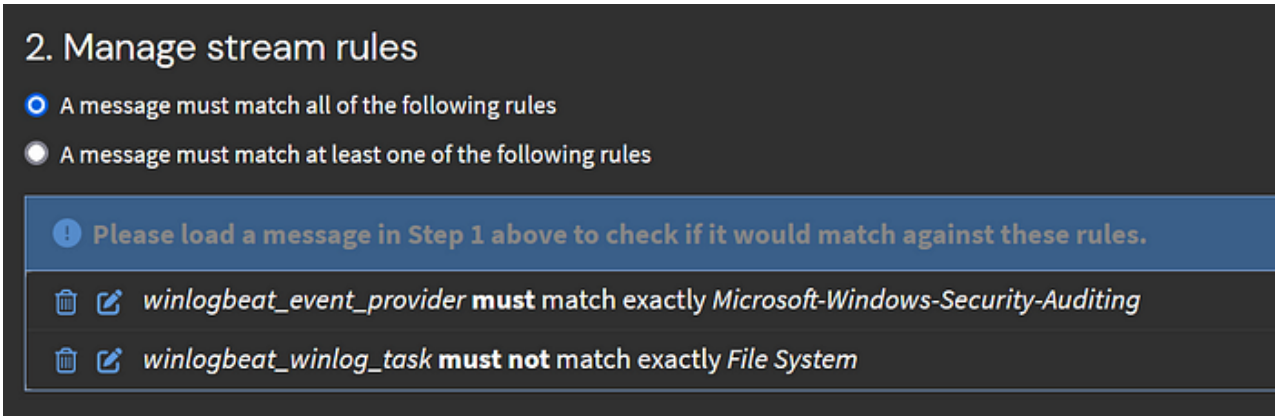
Creating our stream rule

Test the stream rule against the message we selected and make sure the rule matches.



Our message matches!

To prevent copies of messages being made in secondary and tertiary indexes, it is best practice to ensure that we update older rules to remove File Systems Logs from their streams.



Removing File System Logs from Active Directory Index

During the next part of the series we will be looking into importing IIS logs.