Track Firewall Changes

Last updated by | Georgeta Gainariu Pache | Mar 22, 2023 at 9:12 AM PDT



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Issue

Who changed my firewall rules and what are the changes made to my firewall settings.

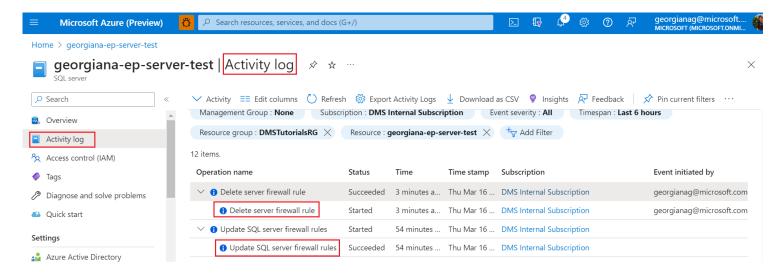
Steps:

1. Activity Log

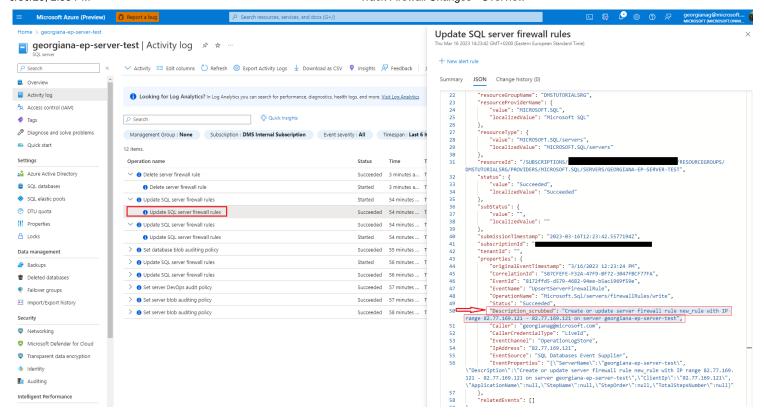
https://learn.microsoft.com/en-us/azure/azure-monitor/essentials/activity-log?tabs=powershell

We actually expose information about the firewall change request (*Description_scrubbed*) in *Activity Log*, but there are some notes:

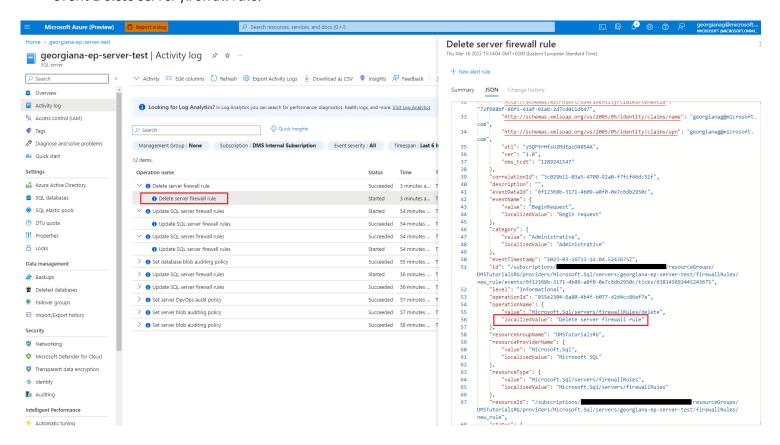
• you need to check for the sub-event, as the original event, will not have complete information:



• customer can make several changes, "Description_scrubbed" will just have information about the request itself (Create or update server firewall rule) for operation name sub-event "Update SQL server firewall rules:



• when we have a delete operation, we should be able to see this information under operation name subevent *Delete server firewall rule*:

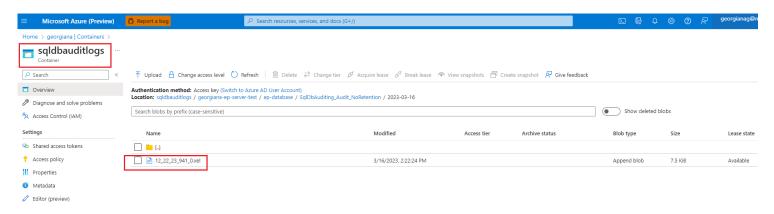


2. Auditing

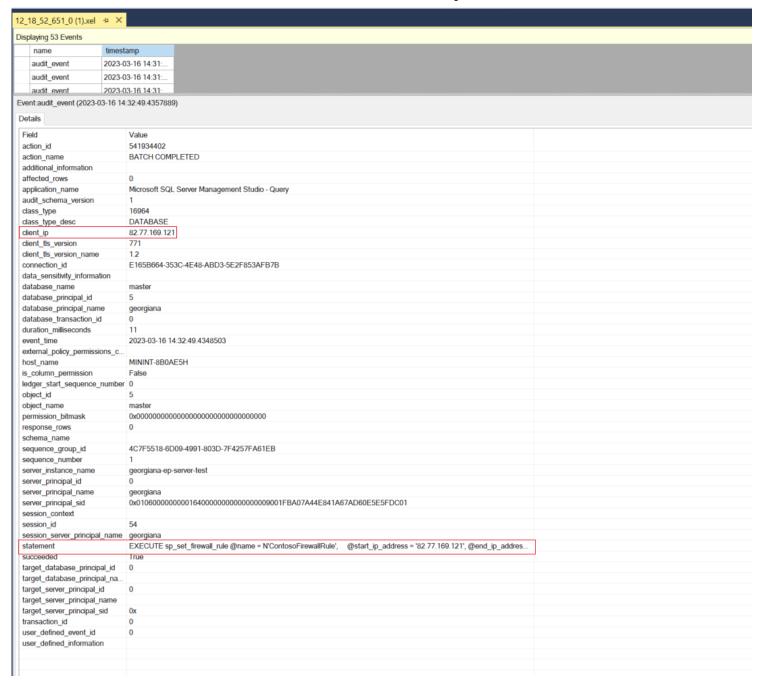
https://learn.microsoft.com/en-us/azure/azure-sql/database/auditing-overview?view=azuresql \(\mathbb{Z}\)

https://learn.microsoft.com/en-us/azure/azure-sql/database/audit-log-format?view=azuresql 🖸

• if auditing is already in place/ set up, you can check for any changes done to the firewall, by accessing the storage where the auditing is synced to:



• we can see how the updated firewall, has been done with a T-SQL query via SSMS, by specific IP user:



3. Monitor Azure Firewall logs and metrics

https://learn.microsoft.com/en-us/azure/firewall/firewall-diagnostics https://learn.microsoft.com/en-us/azure/firewall/logs-and-metrics

- additional information on Azure Firewall using firewall logs.
- you can also use activity logs to audit operations on Azure Firewall resources. Using metrics, you can view performance counters in the portal.

Classification

Root Cause: Azure SQL DB v2\Connectivity\Login Errors\Firewall errors and misconfigurations

How good have you found this content?

