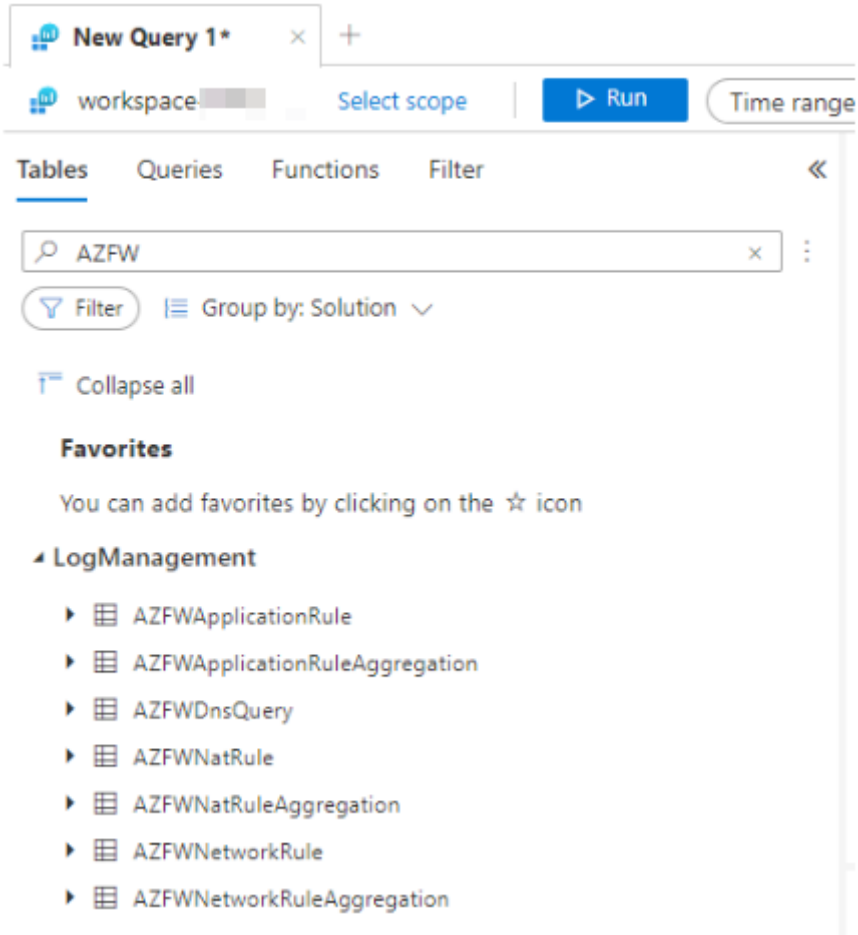
Query Azure Firewall Logs

Azure Firewall Logs can be stored in an Azure Log Analytics Workspace. This workspace then contains all status logs along with permitted and denied connections. So, to find out if a connection is wrongly blocked or to make a specific firewall request, we can use these logs to give us insights.

Find log tables

First of all you have to select the scope on which you want to search for the logs. You can choose the Log Analytics scope with "Select scope".

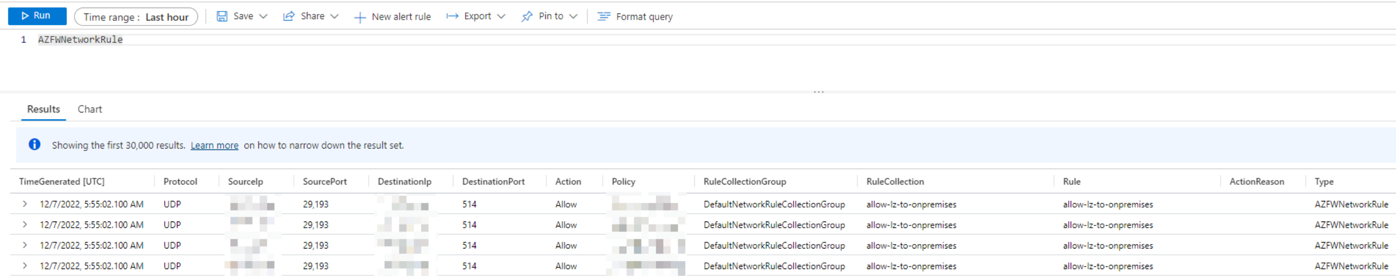
Azure Firewalls save logs to different tables. To find all the different log table you can search in the tables pane for "AZFW". These Tables contain the corresponding log data.



Azure Firewall rule logs are stored within the "AZFWNetworkRule" table.

View whole table content

To view the whole table content you can write the name of the table into the KQL (Kusto Query Language) section. In this case "AZFWNetworkRule" is enough to see all the permitted and denied connections.



Filter logs after IP address

Most of the time we want to filter for specific addresses. These Firwall logs can be queried with the powerful KQL language. This language helps to explore data and discover patterns, identify anomalies and outliers, create statistical modeling, and more. The query uses schema entities that are organized in a hierarchy similar to SQL's: databases, tables, and columns.

Filter for source IPs

AZFWNetworkRule
| where SourceIp == "<yoursourceipadress>"

Filter for destination IPs

AZFWNetworkRule
| where DestinationIp == "<yourdestinationipadress>"

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