





- VERSION 1.1 -

DATA INGESTION

.create-merge table T1 (Timestamp:datetime, F1:string) ingest async into table T1 ("https://url/file.csv.gz") with (ignoreFirstRecord=true)

FILTERS

I where IP Add startswith "10.168.8" // see OPERATORS

I where * has "Kusto" and ActivityId == SubActivityId

| where isnotempty(Field1) or isnotnull(Field2) [project-away Field1, Field2, Field3 //Remove extra columns

distinct Field1, Field2, Field5 //Deduplicate values | lookup Table1 on Field2 //lookup from another table1

O TIME

let min_t = toscalar(Table | summarize min(Timestamp)): let max_t = toscalar(Table | summarize max(Timestamp)); let int t = 1h

Table | range Field1 from min_t to max_t step int_t

[where TimeGenerated > ago(30m) // last 30 min sample

Lextend TimeGenerated1 = todatetime(TimeGenerated)

| where TimeGenerated between (min_t .. max_t)

| extend myTime = now() - totimespan("1d")

find Session.Id=="c8894" and ingestion_time()> ago(24h)

STATISTICS

dcount(Field1) by bin(Timestamp, 1h), Field2, Field3

nmarize dcount(Field1), make_set(Field1) by Field2

order by Field1 asc , Field2 desc //sort can be used

I top 10 by Field1 asc //returns top data set

let suspiciousAccounts = datatable(account: string) [

SecurityEvent | where Account in (suspiciousAccounts)

INITIAL SEARCH

Table1 | sample 50 //sampling Table1 | getschema //data types

search "string" in ("Tbl1", "Tbl2") OPERATORS

TRANSFORMATION

Table1 | count //total rows

STRING

| extend IP_Net = replace_regex(via_ip,@'(10\.168\.)(\d)(.+)',

extend StartDir = substring(ProcessName,0,

| extend sum_sign = iif(sin + cos > 0, "sum_pos", "sum_neg")

extend bucket = case(Size <= 3, "S", Size <= 10, "M", "L")

Levaluate pivot(Field1, sum(Count)) //Pivot or Transpose

parse EventText with * "resourceName=" resourceName ",

totalSlices=" totalSlices:long *

DATA TYPES

bool datetime dynamic string int long real timespan decimal

matches regex

I ioin kind=inner

leftanti fullouter leftouter rightouter

(RIGHT_Table_ Query)
n CommonField

I render timechart

with (title=, ysplit=, kind=

linechart areachart scatterchart barchart columnchart anomalychart anomalycolumns= legend=

@"\1\2+")

string_size(ProcessName) - string_size(Process))

| extend Field1= strcat(Field2, " ", "world") //concatenate

| project-rename exception = Date_Exception

| parse kind = regex EventText with "(.*?)[a-zA-Z]*=" resourceName @". totalSlices=\s*\d+\s*.*?sliceNumber="

sliceNumber:long ".*?(previous)?lockTime=" lockTime I extend AdditionalExtensions = extract all(@ (?P<key>\w+)=(?P<value>[a-zA-Z0-9-_:/@.]+)",

dynamic(["key","value"]), AdditionalExtensions)

I extend extension = tostring(parse_json(ShareLocalPathParsed).Extension)

I my-expand newField1=Field1 to typeof(string) //expand a list

NUMERICAL

extend Total = toscalar(T | summarize sum(Count)) sumif min max minif maxif avg

| extend perc50 = toscalar(T | summarize percentile(Count, 50)) | project Cnt, Total, Percentage = round(Cnt*100.0 / Total, 1)

| summarize arg_max(Field_Max, *) by Field1

IPV4 HANDLING

extend result = ipv4_is_match(ip1_string, ip2_string, prefix)

evaluate ipv4_lookup(IP_Data, ip, network)

extend result = ipv4_is_in_range(ip_address, ip_prefix)

KOL SAMPLE QUERIES

SecurityEvent summarize cnt = count() by Account where cnt < 1000;

ActivityAccounts | where Account contains "SQL"

let today = endofday(now()): let yesterday = startofday(now(-1d)); Table

| where host == "DC02.sample.net" and EventTime between (yesterday .. today) and Name == "Controller"

let neoData = materialize

@"\administrator".

@"NT AUTHORITY\SYSTEM"];

(externaldata(network:string,geoname_id:string,continent_code:string,continent name:string, country_iso_code:string,country_name:string,is_anonymous_proxy:string,is_satellite_provider:string) aste<u>r/data/oeoip2-ipv4.csv</u>*] with [@"https://raw (ignoreFirstRecord=true, format='csv'));let ip = AzureDiagnostics

I summarize count() by client(P scin evaluate ipv4_lookup(geoData, client(P s, n I project clientIP s. network count , country iso code country name

let min t = toscalar(Table | summarize min(Timestamp)); let max t = toscalar(Table | summarize max(Timestamp)): let dt = 1h; Table

| make-series num=count() default=0 on Timestamp in range(min t, max t, dt) by Field1 extend (baseline, seasonal, trend, residual) = series_decompose(num,-1, 'linefit')

render timechart with(title=", ysplit=panels)