Blocking (Managed Instance)

Last updated by | Vitor Tomaz | Aug 5, 2020 at 12:42 PM PDT

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// Long running transactions
MonDmTranActiveTransactions
where AppName contains "<AppName>"
where TIMESTAMP >= {startTime} and TIMESTAMP < {endTime}
where session_id != -1
extend duration_hour = (end_utc_date - transaction_begin_time) / time(1h)
summarize max_duration_hour = arg_max(duration_hour, NodeName, session_id, transaction_id,
transaction_begin_time, transaction_type, transaction_state, program_name, status
) by user_db_name, database_id, accessed_tempdb
sort by max_duration_hour desc
// blocking
//blocking task vs active task count
MonGovernorWorkloadGroups
where AppName == "{AppName}" and NodeName == "{NodeName}"
where TIMESTAMP >= datetime({StartTime}) and TIMESTAMP <= datetime({EndTime})
| where LogicalServerName =~ "{LogicalServerName}" and AppName =~ "{AppName}" and NodeName =~ "
{NodeName}"
where name startswith "SloPriDGroup.DBId" or name startswith "SloPriS" or name startswith
"UserPrimaryGroup"
project TIMESTAMP, active_request_count, blocked_task_count
| render timechart
// B.02
// Identify lead blocker
let blockingchain=MonBlockedProcessReportFiltered
 | where LogicalServerName = ~ "{LogicalServerName}"// and database_name = ~ "{LogicalDatabaseName}"
 where TIMESTAMP >= datetime({StartTime}) and TIMESTAMP <= datetime({EndTime})</pre>
extend monitorLoop = extract("monitorLoop=\"([0-9]+)\"", 1, blocked_process_filtered, typeof(int))
parse blocked_process_filtered with anystr3:string "<blocked-process>" blockee "</blocked-process>"
discard1
parse blocked_process_filtered with anystr4:string"<blocking-process>" blocker "</blocking-process>"
discard2
extend blockee_session_id = extract("spid=\"([0-9]+)\"", 1, blockee, typeof(int))
extend blockee_status = extract("status=\"(.*?)\"", 1, blockee, typeof(string))
extend blockee_waittime = extract("waittime=\"([0-9]+)\"", 1, blockee, typeof(int))
extend blockee_trancount = extract("trancount=\"([0-9]+)\"", 1, blockee, typeof(int))
extend blockee_lasttranstarted = extract("lasttranstarted=\"(.*?)\"", 1, blockee, typeof(datetime))
extend blockee_queryhhash = extract("queryhash=\"(.*?)\"", 1, blockee, typeof(string))
extend blockee_isolationlevel = extract("isolationlevel=\"(.*?)\"", 1, blockee, typeof(string))
extend blockee_lastattention = extract("lastattention=\"(.*?)\"", 1, blockee, typeof(datetime))
extend blockee_lastattention = extract("lastattention=\"(.*?)\"", 1, blockee, typeof(datetime))
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extend blockee_lastbatchstarted = extract("lastbatchstarted=\"(.*?)\"", 1, blockee, typeof(datetime))
extend blockee_waitresource = extract("waitresource=\"(.*?)\"", 1, blockee, typeof(string))
extend blocker_session_id = extract("spid=\"([0-9]+)\"", 1, blocker, typeof(int))
extend blocker_status = extract("status=\"(.*?)\"", 1, blocker, typeof(string))
 extend blocker_waittime = extract("waittime=\"([0-9]+)\"", 1, blocker, typeof(int))
extend blocker_trancount = extract("trancount=\"([0-9]+)\"", 1, blocker, typeof(int))
 extend blocker_lasttranstarted = extract("lasttranstarted=\"(.*?)\"", 1, blocker, typeof(datetime))
extend blocker_queryhhash = extract("queryhash=\"(.*?)\"", 1, blocker, typeof(string))
extend blocker_isolationlevel = extract("isolationlevel=\"(.*?)\"", 1, blocker, typeof(string))
extend blocker_lastattention = extract("lastattention=\"(.*?)\"", 1, blocker, typeof(datetime))
extend blocker_lastattention = extract("lastattention=\"(.*?)\"", 1, blocker, typeof(datetime))
extend blocker_lastbatchstarted = extract("lastbatchstarted=\"(.*?)\"", 1, blocker, typeof(datetime))
//| project PreciseTimeStamp, monitorLoop, blockee_session_id , blocker_session_id
order by monitorLoop asc nulls last;
let leadblockers=
blockingchain
| join kind= rightanti (
 blockingchain
) on $left.monitorLoop == $right.monitorLoop and $left.blockee_session_id==$right.blocker_session_id
extend lead_blocker_session_id = blocker_session_id
 distinct monitorLoop, lead_blocker_session_id;
leadblockers
| join kind= inner (
  blockingchain
) on $left.monitorLoop == $right.monitorLoop and $left.lead_blocker_session_id==$right.blocker_session_id
order by TIMESTAMP asc nulls last
project PreciseTimeStamp, lead_blocker_session_id, blocker_session_id, blocker_trancount,
blocker_lastattention, blocker_queryhhash=toupper(blocker_queryhhash), blocker_status,
blockee_session_id, blockee_waitresource, blockee_queryhhash=toupper(blockee_queryhhash),
blockee_waittime, blockee_status, blocked_process_filtered=toupper(blocked_process_filtered)
//| top 20 by blockee_waittime desc
order by PreciseTimeStamp asc nulls last
// B.02
// Top lock waits by query
MonWiQdsWaitStats
where TIMESTAMP >= datetime({StartTime}) and TIMESTAMP <= datetime({EndTime})
| where LogicalServerName = ~ "{LogicalServerName}"// and database_name = ~ "{LogicalDatabaseName}"
where is_primary == 1
where wait_category == "LOCK"
summarize arg_max(max_query_wait_time_ms, *) by database_name, query_hash
top 10 by max_query_wait_time_ms desc nulls last
MonWiQdsExecStats
where TIMESTAMP >= datetime({StartTime}) and TIMESTAMP <= datetime({EndTime})
| where LogicalServerName =~ "{LogicalServerName}" // and database_name =~ "{LogicalDatabaseName}"
where is_primary == 1
| where query_hash = ~ "0x6919447CA6760071" |
extend cpu_time_ms=round(cpu_time/1024.0,0), elapsed_time_ms=round(elapsed_time/1024.0,0)
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| project TIMESTAMP, database_name, query_hash, cpu_time_ms, elapsed_time_ms, rowcount, exec_type, statement_type

top 100 by cpu_time_ms desc nulls last

MonWiQdsExecStats

//| where TIMESTAMP >= datetime({StartTime}) and TIMESTAMP <= datetime({EndTime})

where TIMESTAMP > datetime({EndTime})

| where LogicalServerName = ~ "{LogicalServerName}"// and database_name = ~ "{LogicalDatabaseName}"

where is_primary == 1

where query_hash =~ "0x6919447CA6760071"

extend cpu_time_ms=round(cpu_time/1024.0,0), elapsed_time_ms=round(elapsed_time/1024.0,0)

summarize exec_count=count(), avg_row_count=round(avg(rowcount),0),

avg_cpu_ms=round(avg(cpu_time_ms),0), max_cpu_ms=max(cpu_time_ms) by exec_type

| project TIMESTAMP, database_name, query_hash, cpu_time_ms, elapsed_time_ms, rowcount, exec_type, statement_type

top 100 by cpu_time_ms desc nulls last

MonSQLSystemHealth

| where TIMESTAMP > datetime({StartTime}) and TIMESTAMP < datetime({EndTime})

| where LogicalServerName = ~ "{LogicalServerName}" and AppName = ~ "{AppName}" and NodeName = ~ "{NodeName}"

| where event=="errorlog_written"

where message contains "KILL" or message contains "kill"

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