MonLogin

Saturday, July 16, 2022 3:14 PM

monloginx

	· · · · · · · · · · · · · · · · · · ·	er failure or succ			
	Column Name		Description		
	state		1. use State_Desc to find out more info		
			TdsServerDatabaseUnavailableStates (used by xdbhost and xdbgateway packages). DbUnavailableCantFindRequestedInstance will become CantFindRequestedInstance (DbUnavailable will be stripped out).		
			search TdsServerDatabaseUnavailableStates and mapfromenum		
			3. ELoginFailedState used by sqlservr		
	Connection_peer_id		1. Unique per connection and set by the client. Process_login_finish event on xdbhost and sqlserver will have same		
			connection_peer_id. 2. Gateway sets connection_peer_id to that provided by client (if provided in driver) before creating connection to backend. Thus can be used for correlation between gateway and backend.		
			3. Example: The login failed. ClientConnectionId:957436c4-8a29-48d4-9ff2-29ecf59deb90. ClientConnectionId is Connection_peer_id in this table		
	is_user_error		whether login failed is due to user error (such as incorrect password)		
	total_time_ms		the total time of process_login_finish (sqlalias look up + winfab lookup for gateway, dosguard, authentication, firewall, xodbc etc for sqlserver) x_eTime_Total FProcessLoginAck starts the timer ProcessXDBHostCommands and TDSSNIClient::AcceptCommon finishes the timer		
	enqueue_time_ms		queue time before the task is picked up onto scheduler		
	enqueue_time_ms		x_eTime_Enqueue in process_messages, it finishes the event (SetLoginEventFinishLocked)		
	login_time_ms		x_eTime_Login // The time spent in the server login routine		
	netwrite_time_ms		sum of time taken while writing packet to SNI		
	Netread_time_ms		sum of time taken while reading packet from SNI		
	find_login_ms		my understanding: this is FindLogin routine plus a few things. see login method x_eTime_FindLogin (which is in login routine). it starts a timer and then ends timer between FindLogin tip: use SetFind_login_ms to search		
	Ssl_time_ms		total time spent during ssl encrypt / decrypt		
	Fedauth-*_time_ms		multiple columns that talk about corresponding step in fedauth		
			(gateway only) time spent by proxy open task in the dispatcher actively running (gateway only) time spent by login waiting to be picked up by dispatcher. Long time here indicates some other login (to anoth database) taking time and hogging up dispatcher pool time which has a max of 200 active proxy open tasks at a time		
	Proxy_dispacther_time Proxy_dispacther_wait Proxy_open_time_ms LgnPoolWait				
			(gateway only) - time spent by proxy open connection in the process of opening connection		
			from extra_info column. only for sqlserver: this should be between the time xdbhost dispatches and SQL picks it up.		
	lookup_state		States are divided into several categories enumerated here by order of transition from file <u>uricachelookup.h</u>		
	result		If login was successful then it tells us if login was redirected or proxied -e_crContinueSameState - Login is proxied -e_crContinue - Login is redirected -e_crDisconnect - Login was disconnected (lookup failure)		
	ssl_protocol		Contains protocol used for ssl: -SNI_TLS1_1_SERVER - 1.1 -SNI_TLS1_SERVER - 1.0 -SNI_TLS1_2_SERVER - 1.2		
	extra info				
proxy_close_connection event	Used for throughput of proxy connection				
	Column Name	Description			
	connection_id	used to corelate			
	logical_server_name	server name to which we are proxying. Used for hashtable lookup			
	total_task_count	Number of proxy task for logical_server_name. Number of tasks ~ number of pending + number in dispach pool			
	open_running_count				
	dispach_pool_size	Size of dispach pool. Size is ~ total_task_count for each logical_server_name			
	sni_conn_count	Number of SNI connections. You can estimate that number connections is sni_conn_count / 2 (since each proxy connection takes two con CLI -> GW and GW -> SQL)			
	tdsproxycontainer_co unt	These should be	e number of connections proxied		

report_login_proxyconn_throttling event	Once login lookup finishes and we determine that we will have to proxy this login we create proxy task. Once created, proxy task has to pass through several phases in order to be scheduled for proxy. Time that each proxy task spends while waiting depends on multiple factors, like number of proxy tasks for that server, total number of task (all servers), number of running tasks etc.		
	Column Name	Description	
	bytes_read	Total bytes read from SQL instance by gateway (equal to bytes written to client).	
	bytes_written	Total bytes written from Gateway to SQL Instance (equal to bytes read from client).	
	packets_read	Total packets read from SQL instance by gateway (equal to packets written to client).	
	packets_written	Total packets written from Gateway to SQL Instance (equal to packets read from client).	
	buffer_size	Buffer size of the underlying SNI connection. This can be set using packet size option in connection strings.	
	duration_in_ms	Duration of session	
	extra_info	Contains error read from socket (Client to GW or GW to SQL). If connection was closed by client it will column will say something like	