

# Upcoming Improvements

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## ICM triggering scenarios being added by Engineering Team

Passive Runners are being added for the following use cases: To Alert (trigger an ICM incident)

1. When we hit specific error > THRESHOLD number of times.
2. When external library directories fill up > directory quota value
3. When high memory/CPU usage is reported for the data package.
4. Capture customers hitting OOM scenarios.
5. Track failures from DiskCleanupWatchdog to cleanup R/Python mounted folders.  
When XdbPackagelauncher, Launchpad and satellite process stop sending telemetry data to MDS/Cosmos.  
This must be caught early to avoid cases of missing telemetry

## Upcoming for GA:

For limited public preview, Extensibility would be disabled by default on all the MI instances (i.e., SQL gets 100% of memory and CPU resources). Customers interested in trying out extensibility would contact us, and Engineering Team will do the below steps using CAS:

- Enable Extensibility feature switch for the server.
- Run RgIsolationSettings CAS command to update the limits to 80 (SQL)- 20 (R/Python external processes).  
If the customer needs more for Python/R, we can set that as well.
- Do a restart

For the end to end work part of GA, We plan to update RgIsolationSettings from SQL and build a quorum safe restart workflow, which would be triggered from SQL.

## Dashboards: (not available for Public Preview)

Dashboards would be built for the following scenarios: Library Management

- library install/uninstall failures per region
- most failing libraries by library name
- total number of libraries getting installed in a single query session [This will help us understand the limits we can set with respect number of libraries getting installed in a single session]
- Time taken to install libraries per library management session
- most installed library

## Generic details

- Total customers onboarded (counts per tenant ring)

- Active customers in the past one week (To figure out the diff between customers onboarded and customers actively using it)

## Errors

- Total errors by date
- Error by customer subscription
- Errors by date
- Classification of the error types per customer

## How good have you found this content?

