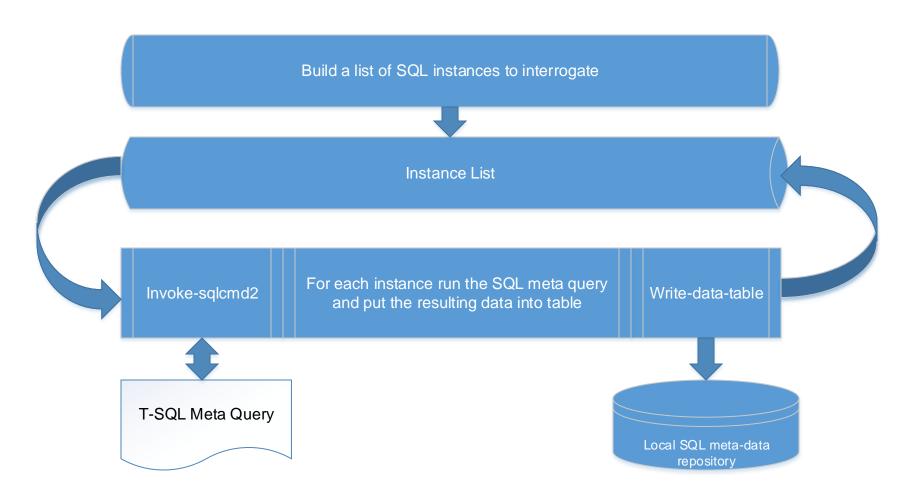
-SQL Meta-Data Collection Powershell Script-

Write a reusable Powershell script that allows me to run SQL queries against
multiple instances in a given environment (with low to no impact) from a
centralized instance and collect the data returned into a set of tables.



-SQL Meta-Data Collection Local Environment-

 Create an automated process using a collector SQL instance to run the Powershell Meta-Data collection scripts using SQL Server Agent jobs in each environment to gather the SQL Meta-Data into a local repository.

SQL Server Agent

Job: 'DBA Monitor Cleanup'
SQL Query purges last 24 hours of performance data collected
(Once a day)

Job: 'DBA CollectSQLMetaPS'
Runs PS collector scripts, except the performance related ones
(Once a day)

Job: 'DBA InstPerfStats'
Runs PS scripts to collect server and instance performance data
(Hourly)

MSSQL Instance Level Information

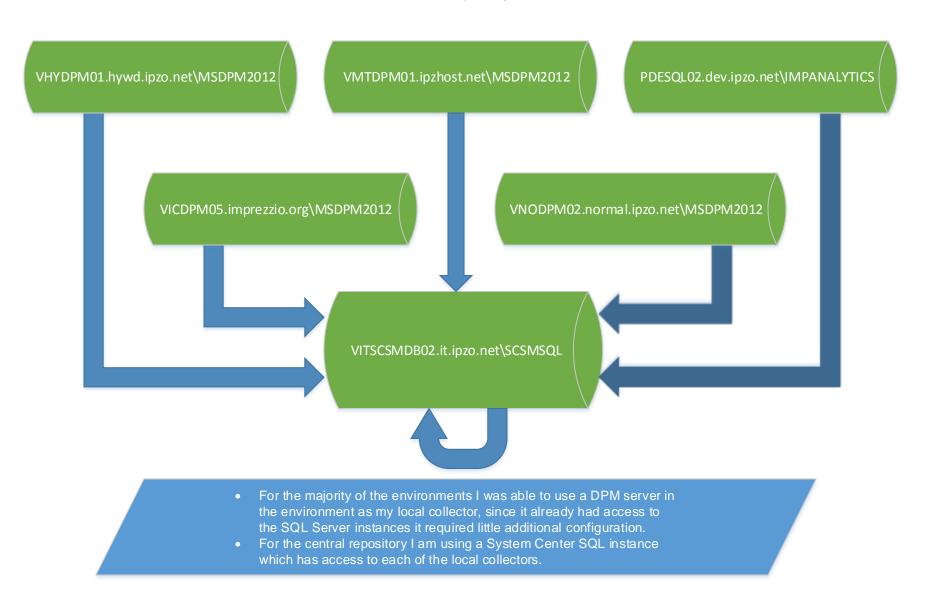
- Version & Edition
- Configuration settings
- Performance stats (hourly)
- Server Performance stats (hourly)
- SQL Agent Job Information

MSSQL Database Level Information

- Configuration settings
- Backup Information
- Table List
- Column List (Coming Soon!)
- Index List
- Data and Log file sizes (WIP)

SQL Server Meta-Data Collection Process

• Create an automated process to collect all of the meta-data from the different environments/instances into a central repository database.



-SQL Meta-Data Collection Central Repository-

SQL Server Agent

Job: 'DBA Daily Meta Cleanup' SQL Query purges old data (Once a day)

Job: 'DBA CollectSQLMetaPS'
Runs PS collector scripts, except the performance related ones
(Once a day)

Job: 'DBA InstPerfStats'
Runs PS scripts to collect server and instance performance data
(Hourly)

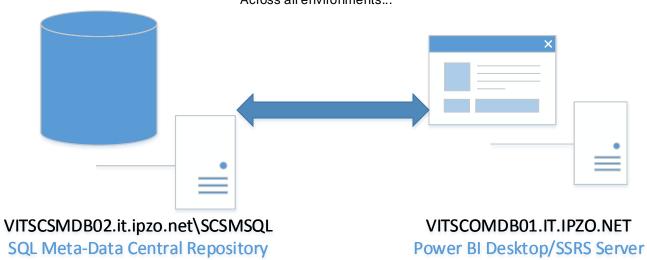
Job: 'DBA Import Meta Data'
Imports all Meta-Data from the local collector nodes
(Once a day 5:45AM)

-SQL Meta Data Reporting Environment-

Utilize the collected meta-data to:

- Establish performance baselines
- Analyze growth trends
- Automate documentation
- · Audit for best practices
- Troubleshoot issues

Across all environments...



Reports/Dashboards

- Server Performance metrics
- SQL Instance Performance metrics
- SQL Instance Build Sheets

KPI's

• # of instances, DB's, Tables, Indexes

-SQL Meta Data Environment To-Do List-

- Hardening against job failure
- Error checking/traps
- Email Alerts
- More/better reports
- Collect more data
- Cleanup/verify/fine tune data collected
- Better SSRS and Power BI desktop integration (Waiting on Microsoft)