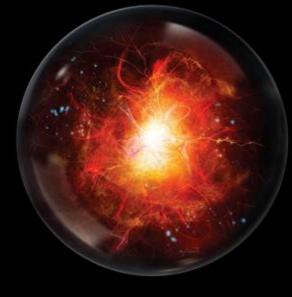
Policy Based Management





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Professional Association for SQL Server

Agenda

- What is Policy Based Management & it's Need
- Objects of PBM
- Architecture
- Demo
- EPM Framework
- Considerations
- Questions

What is PBM & Needs

- Reduce DBA efforts
- Central Management is easier now
- Enforcing policies across all servers (low versioned)
- Notify or block when policies gets violated
- Evaluating Policies periodically
- Capable to handle old versions (>= SQL 2000*)
 **Not all facets \ condition applicable on < SQL2008

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- Facets
- Conditions
- Policy Targets
- Policies
- Policy Categories

contd...

- Facets
 - Logical Property or Characteristics of targets
 - 74 facets available in SQL2K8 and 82 facets available in SQL2K8 R2
 - All facets can be queried using dbo.syspolicy_management_facets view in msdb database
 - User defined facets are not allowed

contd...

- Conditions
 - Boolean Expression to evaluate the targets
- Policy Targets
 - Endpoint where we are going to evaluate policies
 - Server Instance, Database, Database objects etc
- Policy Categories
 - User defined one to organize your policies for easy administration
 - A policy can be assigned to only one category

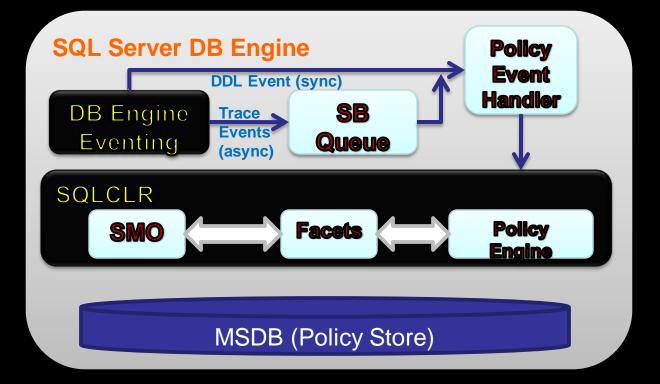
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- Policies
 - Contains a condition to evaluate against targets
 - Can be enabled or disabled
 - Evaluated in 4 modes
 - On Demand
 - On Change: Log only
 - On Change: Prevent
 - On Schedule

Permission for PBM

- A new role "PolicyAdministratorRole" is added to msdb database.
- Complete privilege for PBM, users can create \ edit policies
- User has elevated access for creating server level triggers
- User has access to ExecuteSql or ExecuteWql functions.
- Scheduled policies will run under SQL agent service account

Architecture





SMO Facets

Windows Powershell Wrapper

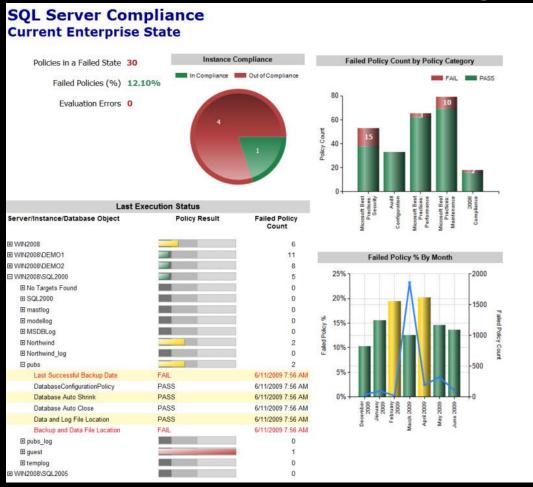
Policy Engine

Demo

- Demo 1 Creating a policy
- Demo 2 Evaluate by On Demand and On Change
- Demo 3 Evaluate policies across multiple server using CMS
- Demo 4 Import \ Export Policies
- Demo 5 Configuring Mail Alerts for policy violations

EPM FrameWork

Requires SQL 2008 SP1 with Cu3



Considerations

- Some policies might affect to fail because of improper use
- If nested trigger option is disabled then On Change: Prevent only evaluation mode cannot be used
- PolicyAdministratorRole has elevated access to Server level trigger creation

Questions



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