**What is Policy-Based Management?**

Policy-Based Management is a system that allows the DBA to manage and control on a granular scale how to best apply **rules and standards to the entire server** of specific objects

**Benefits of Policy-Based Management**

* Allows the DBA to develop and **enforce** common, enter­prise-wide standards for the SQL Server
* Allows the DBA to **prevent**, enable, and disable certain conditions of objects
* Allows the DBA to propagate a set of rules and conditions to the whole server or objects and find **inconsistencies**
* Allows the DBA to **automatically** check each instance for compliance on a regular basis rather than manually

**Policy-Based Management Terms**

**Facets:**

A facet is a collection of pre-defined properties of an object that describe some functionality of SQL Server. For example, the Database (Auto Close, Auto Shrink)

**Conditions.**

Once you have selected a facet that you want to create a policy for, you must specify a condition for that facet. For example, if you want the Auto Shrink property of the Database Options facet set to "false," you must create a condition for this facet

PROCEDURE:

* FIND THE FACET YOU WANT TO APPLY THE CONDITION ON
* SET THE CONDITION
* APPLY THE POLICY

FIND AUTOSHRINK PROPERTY

FIND THE AUTOSHRIK PROPERTY OF EACH DATABASE

FIND AUTOSHRINK POLICY

PREVENT CREATION OF SPROC

'USP\_%'

'SQL2'

PREVENTS THE CREATION OF A SPROC THAT DOES NOT HAVE THE PREFIX

'USP\_'

PLEASE REWRITE THE SPROC WITH USP\_ PREFIX

--EXAMPLE 1 : CREATE 10 DATABASE, SOME WITH AUTOSHRINK PROPERTY OF THE FACET (DATABASE) SET TO 'ON'

--FIND ALL THE DATABASE WITH THE AUTOSHRINK PROPERTY SET TO 'ON' AND SET THEM TO 'OFF'

--SOLUTIONS: CREATE A POLICY BASED CONDITION

USE [master]

GO

CREATE DATABASE T1

GO

ALTER DATABASE [T1]

SET AUTO\_SHRINK ON

WITH NO\_WAIT

GO

CREATE DATABASE T2

GO

CREATE DATABASE T3

GO

CREATE DATABASE T4

GO

ALTER DATABASE [T4]

SET AUTO\_SHRINK ON

WITH NO\_WAIT

GO

CREATE DATABASE T5

GO

CREATE DATABASE T6

GO

ALTER DATABASE [T6]

SET AUTO\_SHRINK ON

WITH NO\_WAIT

GO

CREATE DATABASE T7

GO

CREATE DATABASE T8

GO

CREATE DATABASE T9

GO

CREATE DATABASE T10

GO

--USE [master]

--GO

--ALTER DATABASE [T1]

--SET AUTO\_SHRINK OFF

--WITH NO\_WAIT

--GO

--DROP PROCEDURE POLICY\_BASED

--------------------------------------------

--EXAMPLE 2: PREVENT A USER FROM CREATING A STORED PROCEDURE THAT DOES NOT USE A 'USP\_' PREFIX

--FACET = MULTIPART NAME

USE SQL2

GO

CREATE PROCEDURE POLICY\_BASED --<< NOTE THAT THE PREFIX 'USP\_' HAS NOT BEEN USED, AND AS SUCH SPROC WILL NOT BE CREATED

AS

SELECT \* FROM [dbo].[People2]

--AS SOON AS THE SPROC HAS THE PREFIX 'USP\_', IT'S CREATED

USE SQL2

GO

CREATE PROCEDURE USP\_POLICY\_BASED --<< NOTE THAT THE PREFIX 'USP\_' HAS NOT BEEN USED, AND AS SUCH SPROC WILL NOT BE CREATED

AS

SELECT \* FROM [dbo].[People2]