**✅ Full Setup: Restrict Tableau to 4 CPUs via SQL Server Resource Governor**

**🔧 Step 1: Create a Resource Pool using 4 CPUs**

Let’s assume your SQL Server has **16 logical CPUs**, and you want Tableau to use **4 of them**, i.e., 25%:

sql

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-- Create a Resource Pool for Tableau

CREATE RESOURCE POOL TableauPool

WITH (

MAX\_CPU\_PERCENT = 25 -- Limit to 25% of total CPU

);

**🔧 Step 2: Create a Workload Group linked to that pool**

sql

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CREATE WORKLOAD GROUP TableauGroup

USING TableauPool;

**🔧 Step 3: Create a classifier function using Tableau’s SQL login**

Assume Tableau connects using a login like 'tableau\_user'. Adjust it to match your environment.

sql

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-- Drop existing classifier function if it exists

IF OBJECT\_ID('dbo.TableauClassifier') IS NOT NULL

DROP FUNCTION dbo.TableauClassifier;

GO

-- Create a classifier function using the login name

CREATE FUNCTION dbo.TableauClassifier()

RETURNS sysname

WITH SCHEMABINDING

AS

BEGIN

DECLARE @group\_name SYSNAME;

IF SUSER\_SNAME() = 'tableau\_user'

SET @group\_name = 'TableauGroup';

ELSE

SET @group\_name = 'default';

RETURN @group\_name;

END;

GO

Replace 'tableau\_user' with the actual SQL login Tableau uses.

**🔧 Step 4: Hook the classifier function into Resource Governor**

sql

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-- Set the classifier function

ALTER RESOURCE GOVERNOR WITH (CLASSIFIER\_FUNCTION = dbo.TableauClassifier);

-- Apply configuration

ALTER RESOURCE GOVERNOR RECONFIGURE;

**🔧 Step 5: Verify it's working**

After reconnecting Tableau (very important – classification only happens on **new sessions**):

sql

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SELECT

s.session\_id,

s.login\_name,

s.program\_name,

wg.name AS workload\_group\_name,

rp.name AS resource\_pool\_name

FROM sys.dm\_exec\_sessions s

JOIN sys.dm\_resource\_governor\_workload\_groups wg ON s.group\_id = wg.group\_id

JOIN sys.dm\_resource\_governor\_resource\_pools rp ON wg.pool\_id = rp.pool\_id

WHERE s.login\_name = 'tableau\_user';

✅ You should see:

* workload\_group\_name = TableauGroup
* resource\_pool\_name = TableauPool

**🧼 Optional Cleanup and Notes**

* You can modify the MAX\_CPU\_PERCENT later using ALTER RESOURCE POOL.
* You can monitor actual CPU use with sys.dm\_resource\_governor\_resource\_pools\_history.