How to run DBCC CHECKDB on all user databases

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**Contents**

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Issue

You might have a customer that wants to know how he can run DBCC CHECKDB on all user databases

Investigation/Analysis

Since Maintenance Plans ⧉ are not available on Azure SQL Managed Instance, the task needs to be done using T-SQL.

For running the task on a scheduled job, the customer can use SQL Agent Jobs ⧉

Mitigation

Script below

Notes:

- the customer should always test before applying in Production
- the script performs DBCC CHECKDB with no other options (physical only, etc). Customer can change depending on his needs
- if not logged on a table, the result can be checked on SQL Error log
- there is an option to save on a table (to be created on a user database). But note that the number of records can grow rapidly. The customer might want to purge data from the log table as see needed.
- the log table doesn`t contain indexes. Customer should create depending on the queries that he will eventually run to read data.

```sql
--- table to save results
-- uncomment if the customer wants to save the results on a table.
/*
create table dbcc_checkdb_results(
[TimeStamp] [datetime] DEFAULT (GETDATE()),
[Error] [int] NULL,
[Level] [int] NULL,
[State] [int] NULL,
[MessageText] [varchar](7000) NULL,
[RepairLevel] [int] NULL,
[Status] [int] NULL,
[DbId] [int] NULL,
[DbFragId] [int] NULL,
[ObjectId] [int] NULL,
[IndexId] [int] NULL,
[PartitionID] [int] NULL,
[AllocUnitID] [int] NULL,
[RidDbId] [int] NULL,
[RidPruId] [int] NULL,
[File] [int] NULL,
[Page] [int] NULL,
[Slot] [int] NULL,
[RefDbId] [int] NULL,
[RefPruId] [int] NULL,
[RefFile] [int] NULL,
[RefPage] [int] NULL,
[RefSlot] [int] NULL,
[Allocation] [int] NULL
)
*/
---- dbcc job
set nocount on

create table #temp(id int identity(1,1) primary key clustered,
dbname sysname)

insert into #temp
select name from sys.databases where name not in ('master','model','msdb','tempdb')

declare @l int = (select count(*) from #temp)
declare @i int = 1
declare @db sysname


while @i <= @l
begin
        declare @sql nvarchar(4000) = N'USE ['+@db+']; dbcc checkdb with tableresults;'
        set @db=(select dbname from #temp where id=@i)

        -- uncomment if the customer wants to save the results on a table.
        /*
        INSERT INTO [dbo].[dbcc_checkdb_results]
           ([Error]
           ,[Level]
           ,[State]
           ,[MessageText]
           ,[RepairLevel]
           ,[Status]
           ,[DbId]
           ,[DbFragId]
           ,[ObjectId]
           ,[IndexId]
           ,[PartitionID]
           ,[AllocUnitID]
           ,[RidDbId]
           ,[RidPruId]
           ,[File]
           ,[Page]
```

```
                ,[Slot]
                ,[RefDbId]
                ,[RefPruId]
                ,[RefFile]
                ,[RefPage]
                ,[RefSlot]
                ,[Allocation])
        */
        exec(@sql)

        set @i+=1
    end

    drop table #temp
```

How good have you found this content?