 PROVIDE TEMPORARY ACCESS ON MSSQL SERVER PART-1

***Objective:*** This document shows how we can provide temporary access to any member on MSSQL Server, here access can be any – it can be USP or Functions execute access on all databases or DML/DDL execute access on specific databases etc.

***Implementation:***

1. Create a login for the user need temp access.
2. Provide user the moderate server level access so that user can do his/her desired activity.
3. Use below script and schedule it to run every night as SQL Agent job.
4. This script will drop the logins whose access request expiration date has been reached.

***SQL Script:***

--first we create logins manually

--second we will give sys admin access to login.

-- and if user need access for more time (more then 1 day) we will add that in below script

Set NoCount On

Use Master

Go

Create Table #UserDropList (UserName Varchar(MAX))

Create Table #UserExceptionList (UserName Varchar(MAX), ExpiryDate Date NULL)

-- Add One Or More Users to exception list who are not supposed to be dropped

--Add all logins/users and provide expiration date

Insert into #UserExceptionList Values ('login name 1', 'expiration date'),

('login name 2', 'expiration date'),

('login name 3', 'expiration date')

Declare @SQLString NVarchar(MAX), @UserName Varchar(MAX)

EXEC sp\_MSForEachDB

'Declare @name varchar(100)

select @name = ''?''

IF db\_id(@name) > 0

BEGIN

Insert into #UserDropList (UserName)

Select name from ?.sys.sysusers SU where name not like ''ABC\XYZ%'' And name like ''ABC\%''

And Not Exists (Select 1 from #UserDropList UD Where UD.UserName collate SQL\_Latin1\_General\_CP1\_CI\_AS = SU.Name collate SQL\_Latin1\_General\_CP1\_CI\_AS)

And Not Exists (Select 1 from #UserExceptionList UD Where UD.UserName collate SQL\_Latin1\_General\_CP1\_CI\_AS = SU.Name collate SQL\_Latin1\_General\_CP1\_CI\_AS And UD.ExpiryDate >= Convert(Varchar(10), GETDATE(), 112))

END'

Insert into #UserDropList (UserName)

Select name from sys.syslogins SL where name not like 'ABC\XYZ%' And name like 'ABC\%'

And Not Exists (Select 1 from #UserDropList UD Where UD.UserName collate SQL\_Latin1\_General\_CP1\_CI\_AS = SL.Name collate SQL\_Latin1\_General\_CP1\_CI\_AS)

And Not Exists (Select 1 from #UserExceptionList UD Where UD.UserName collate SQL\_Latin1\_General\_CP1\_CI\_AS = SL.Name collate SQL\_Latin1\_General\_CP1\_CI\_AS  And UD.ExpiryDate >= Convert(Varchar(10), GETDATE(), 112))

Declare DropUserLogins Insensitive Cursor For

Select DISTINCT UserName from #UserDropList

Open DropUserLogins

Fetch DropUserLogins into @UserName

While @@FETCH\_STATUS = 0

Begin

Select 'Drop User: ', @UserName

Select @SQLString = 'Declare @name varchar(100) ' +

'Select @name = ''?'' '+

'IF db\_id(@name) > 0 ' +

'BEGIN ' +

' Use [?] ' +

' If Exists (Select 1 from ?..sysusers where name = "' + @UserName + '") ' +

'Drop User [' + @UserName + '] ' +

'END'

EXEC sp\_MSForEachDB @SQLString

Select 'Drop Login: ', @UserName

Select @SQLString = 'Drop Login ' + QuoteName(@UserName)

EXEC sp\_executesql @SQLString

Fetch DropUserLogins into @UserName

End

Close DropUserLogins

DeAllocate DropUserLogins

Drop Table #UserDropList

Drop Table #UserExceptionList