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| **Description** |  |

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| Create script that accepts a list of job names that will loop through and programmatically add AG Primary check step 1 to jobs if it doesn't already exist. |

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| **Comments** |  |

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| Objects |
| **Stored procedure: [**dbo].[usp\_check\_PrimaryServer]   * Need to put as first step in most/all jobs.   + On Success: Go to the next step On Failure: Quit the job reporting success * Job step example:   DECLARE @Job\_Name NVARCHAR(128)  SELECT @Job\_Name = name FROM msdb.dbo.sysjobs WHERE job\_id = $(ESCAPE\_SQUOTE(JOBID))  EXECUTE [DS\_Utility].[dbo].[usp\_check\_PrimaryServer] @JobName= @Job\_Name  On Success: Go to the next step  On Failure: Quit the job reporting success  **User Parameters:**   * **Required:**   + @JobName VARCHAR(150)     - This gets passed through on execution of the job.     - Used in the event of a failure in the try-catch in the stored proc to email * **Optional:**   + @MailProfile VARCHAR(100)     - If want to use specific db Mail profile from proc (optional)     - Current value used in proc is: @MailProfile = 'prfDATABASE\_ALERTS' Or do we want 'default'?   + @Email VARCHAR(100)     - If want to send to specific email from proc (optional)     - Current value used in proc is: @Email = 'dbhealth@nbcuni.com' Or do we want 'gn-data@nbcuni.com'?   + @ListenerName nvarchar(63)     - If more than one AG/Listener on server. i.e. Raptor     - Use listener associated AG syncing the DB used in job steps (Optional)     - If this option is used and server is ever migrate, the steps will all need to be updated to the new listener name.   + @RunOnSecondaryOnly BIT     - If want to run on secondary node(s) only and not primary.     - Would need to be read only operations against dbs being synced.     - Will run on all Secondary instances belonging to the AG. (Optional)     - Defaults to 0 if NULL - OR - if set to 1, but if @RunOnAllAGNodes = 1 then RunOnAllNodes takes precedence and @RunOnSecondaryOnly is set to 0     - Later maybe find way to have a new parameter Use Read only routing and if it is set, if server is secondary, bet ror priority and if the server being run on is that 1st routing option run, else other secondary servers do not execute.   + @RunOnAllAGNodes BIT     - If want to run on all nodes of an AG     - Use for jobs like collecting server stats to non AG-Synced dbs, or maintenance tasks. (Optional)     - Defaults to 0 if NULL   If this stored proc is called from jobs on a stand alone server, the job will execute always.  If on a server that is part of a WFCI and not an AG, the job will execute always.  **TVP:** [[dbo](https://golfnow.atlassian.net/wiki/display/DS/dbo)].[[tvp\_SQLAgentJobList](https://golfnow.atlassian.net/wiki/display/DS/tvp_SQLAgentJobList)]  **Procs:**   1. **[[dbo](https://golfnow.atlassian.net/wiki/display/DS/dbo)].[[usp\_check\_PrimaryServer\_AddToSQLJob](https://golfnow.atlassian.net/wiki/display/DS/usp_check_PrimaryServer_AddToSQLJob)]** This proc will dynamically build the command to call the stored procedure  [dbo].[usp\_check\_PrimaryServer] with the parameters that proc accepts for your case. Uses TVP [dbo].[tvp\_SQLAgentJobList] for that list of names, loops through and adds the step as step 1 to those jobs with  * On Success: Go to the next step * On Failure: Quit the job reporting success   1. **Required parameter:**      1. **@JobList** AS [dbo].[tvp\_SQLAgentJobList] for list or single job name value. Name(s) of Jobs you want to add check primary to.      2. **@StepDBName** - Database that proc [dbo].[usp\_check\_PrimaryServer] lives in. Need for Job Step call being dynamically built.   2. **Optional parameters** all used in the proc [dbo].[usp\_check\_PrimaryServer] except @debug. Added so job step can be built with the parameters needed for the job list. Most jobs should only need jobname and it will set the job to only run on primary node.      1. **@MailProfile** - mail profile to use for sending mail if want something other than what is hardcoded in [dbo].[usp\_checkPrimaryServer].      2. **@Email** - Email to send failure to if want something other than what is hardcoded in [dbo].[usp\_checkPrimaryServer].      3. **@ListenerName** - If more than 1 listener on the node.      4. **@RunOnAllAGNodes** - If want to run on primary and all readable secondary nodes      5. **@RunOnSecondaryOnly** - If want to run on all readable secondary nodes but not primary      6. **@debug** - print statement instead of adding the step to the sql agent job   ##**Example call for basic primary only run step:**  USE [DB\_Name%]  GO  DECLARE @StepDBName sysname = 'DS\_Utility'  DECLARE @JobList AS dbo.tvp\_SQLAgentJobList;  INSERT INTO @JobList  SELECT j.[name] AS job\_name  FROM msdb.dbo.sysjobs j  WHERE j.[name] IN  (  'JobName1',  'JobName2',  'JobName3',  'JobName4'  )  EXECUTE [dbo].[usp\_check\_PrimaryServer\_AddToSQLJob] @JobList = @JobList, @StepDBName = @StepDBName   1. **[[dbo](https://golfnow.atlassian.net/wiki/display/DS/dbo)].[[usp\_check\_PrimaryServer\_RemoveFromSQLJob](https://golfnow.atlassian.net/wiki/display/DS/usp_check_PrimaryServer_RemoveFromSQLJob)]** This proc will dynamically build the command Remove CheckPrimary step whichever step it is. Uses TVP [dbo].[tvp\_SQLAgentJobList] for that list of names, loops through and removes the step.    1. **Required parameter:**       1. @JobList AS dbo.tvp\_SQLAgentJobList for list or single job name value.    2. **Optional parameters:**       1. @debug BIT   ##**Example call:**  USE [DB\_Name%]  GO  DECLARE @JobList AS dbo.tvp\_SQLAgentJobList;  INSERT INTO @JobList  SELECT j.[name] AS job\_name  FROM msdb.dbo.sysjobs j  WHERE j.[name] IN  (  'JobName1',  'JobName2',  'JobName3',  'JobName4'  )  EXECUTE [dbo].[usp\_check\_PrimaryServer\_RemoveFromSQLJob] @JobList = @JobList |