CTX-Continuous-Integration Deployment Plan

Contents

Versions

Document Revisions

The following revisions have been made to this document

Date	Revision	Notes
21/02/2019	1.0	First release
06/10/2021	1.1	Added PowerShell Credentials to config file

Module Versions

This version of the CTX-Continuous-Integration deployment plan is relevant up to version 1.2 of the CTX-Continuous-Integration module.

Preface

About this Manual

This document provides a guide on how to deploy CTX-Continuous-Integration module in your Cortex system.

Audience

This document is intended for those who require the use of CTX-Continuous-Integration module.

Related Material

Document
CTX-Continuous-Integration – User Guide
CTX-Continuous-Integration.studiopkg
CTX-Continuous-Integration– Install DB.sql

Abbreviations used in this Document

SQL   Structured Query Language

SSMS   SQL Server Management Studio

1 Requirements

This document details all the steps required to deploy the CTX-Continuous-Integration module.

Requirements:

- Remote Desktop Access to the Cortex Application Server

- SSMS Access to the Cortex Database Instance

- Minimum Cortex v7.1 installed on the Cortex Application Server

- Minimum SQL Server 2012 (version 11.0.7001.0) installed on the Cortex Database Server

2   Import CTX-Continuous-Integration

To deploy the CTX-Continuous-Integration module on your Cortex system, the CTX-Continuous-Integration Studio Package needs to be imported on your Cortex system. To do this:

- Download the CTX-Continuous-Integration Studio Package

- Import the Studio Package in Cortex Gateway

- Ensure the relevant users have the required permissions in 'Studio Authorisation'

It is also required that the CTX-Logging module is imported on your Cortex system.

- Download the CTX-Logging Studio Package

- Import the Studio Package in Cortex Gateway

- Ensure the relevant users have the required permissions in 'Studio Authorisation'

After this, all users in the authorised groups will be able to view and execute the subtasks.

3   Deploy Configuration File

For the CTX-Continuous-Integration module to work, the Cortex ContinuousIntegration configuration file must exist on the server where Cortex is installed. The below table explains what each parameter is:

Parameter Name	Description
DatabaseServer	The server name where the Cortex Continuous Integration and gateway databases are hosted.
DatabaseName	The Cortex Continuous Integration database name.
GatewayDatabaseName	The Cortex Gateway database name.
GatewayUser	A Cortex Gateway Username with Admin privileges. This user will be used to export, import and publish flows.
	This may be encrypted using the Cortex Encryptor if necessary, found in c:\Cortex\admin by default on a Cortex application server
GatewayPassword	The Cortex Gateway user password.
	This may be encrypted using the Cortex Encryptor if necessary, found in c:\Cortex\admin by default on a Cortex application server
GatewayURL	The Cortex Gateway URL. This is used to perform package RESt calls: export, import and publish.
FlowAPIUser	The Flow API secure username.
FlowAPIPassword	The Flow API user password.
	This may be encrypted using the Cortex Encryptor if necessary, found in c:\Cortex\admin by default on a Cortex application server
FlowAPIUrl	The Flow API URL. This is used to start flows.
BackupFolder	The folder to where the backed-up flows package will be saved to.
BackupPackageNamePrefix	The backed-up flows package will be generated using this name prefix plus the date of backup.
PackageFolder	The folder to where the packages to be deployed and tested will be stored.
PublishServerName	The Cortex Server where the publish will be performed. As a single Cortex Gateway can connect to more than one Cortex Server, it is required to specify the target server name. This

	name needs to match the name configured in Cortex Gateway > Settings > Studio Servers > Display Name.
PowerShellDomain	Domain of the below PowerShell user
PowerShellUsername	A user that is authorised to execute PowerShell scripts on the Cortex application server
PowerShellPassword	The Password for the above user. This may be encrypted using the Cortex Encryptor if necessary, found in c:\Cortex\admin by default on a Cortex application server

3.1 Create Configuration File

1   Open Remote Desktop Connection to the Cortex server

2   Navigate to C:\Cortex (folder where Cortex is installed)

3   Create a .txt file named ContinuousIntegration.txt

⁝   It is not advisable to change the file name as changing it requires updating the module flows default values when loading the configuration file.

4   Copy the contents below to the created file and replace the highlighted values as required

⁝   If they do not already exist, the paths specified in the BackupFolder and PackageFolder parameters will need to be created.

```
DatabaseServer= "localhost"

DatabaseName= "Cortex-ContinuousIntegration"

GatewayDatabaseName= "CortexWeb"

GatewayUser= "CTX_Gateway"

GatewayPassword=
"#_046047125195227!209251102074004115027126145164190~049141029142
237!15904110009008223719206704114621 2#"

GatewayURL= "https://appServer.domain.com/gateway"

FlowAPIUser= "CortexFlow"

FlowAPIPassword= "N3wP4ssW0rd"

FlowAPIUrl= "https://appServer.domain.com:10000/"

BackupFolder= "C:\temp"

BackupPackageNamePrefix= "CortexAutoBackup"

PackageFolder= "C:\temp\DeployPackage"

PublishServerName="appServer"

PowerShellDomain="domain"

PowerShellUsername="ctx_PowerShell"

PowerShellPassword=
"#_046047125195227!209251102074004115027126145164190~049141029142
237!15904110009008223719206704114621 2"
```

4   Deploy Cortex-ContinuousIntegration Database

4.1 Overview

For the CTX-Continuous-Integration module to work, the Cortex-ContinuousIntegration database along with the schema must exist on the server where the Cortex databases exist. The following steps instruct you how to deploy the database and schema.

4.2 Create Database

1   Open SSMS Connection to the Cortex database Instance

2   Follow the instructions on the "CTX-Logging – Deployment Plan" to create the base database schema

      a.   Note that you should set the DatabaseName to "Cortex-ContinuousIntegration" when running the Cortex-Logging install script

3   After the base database is installed, copy the 'Cortex-ContinuousIntegration-Install.sql' script to the Cortex database server

4   Open 'Cortex- ContinuousIntegration-Install.sql' in SQL Server Management Server (SSMS)

5   Replace the SQL command variables as required:

```
:setvar DatabaseName "Cortex-ContinuousIntegration"
:setvar DefaultFilePrefix "Cortex-ContinuousIntegration"
```

Variable	Description
DatabaseName	The Continuous Integration database name. It is advised to leave the default value 'Cortex-ContinuousIntegration'.
DefaultFilePrefix	The Continuous Integration database name. It is advised to leave the default value 'Cortex-ContinuousIntegration'.

6   Click on **Query** -> **SQLCMD Mode** and execute the query

7   On the messages panel, you should see no errors on the messages

8   In the left-hand panel, click the plus to the left of 'Databases' to expand 'Databases'
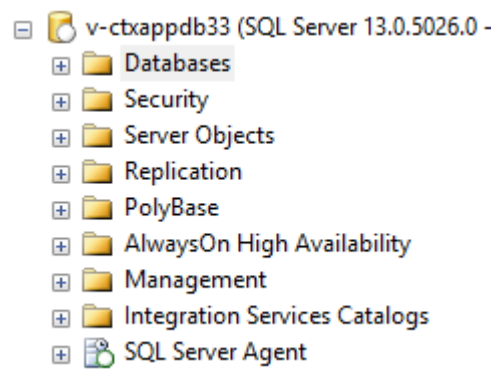
9   Right click 'Databases' and click 'Refresh'.

10   Expand 'Cortex-ContinuousIntegration'

11   Expand 'Tables'

12   Expand 'Views'

13   Validate the tables and views shown on the following page are present

- Tables
  - System Tables
  - FileTables
  - External Tables
  - dbo.EventLog_001
  - dbo.EventLog_002
  - dbo.EventLog_003
  - dbo.EventLog_004
  - dbo.EventLog_005
  - dbo.EventLog_006
  - dbo.EventLog_007
  - dbo.Flows
  - dbo.FlowType
  - dbo.ParameterLog_001
  - dbo.ParameterLog_002
  - dbo.ParameterLog_003
  - dbo.ParameterLog_004
  - dbo.ParameterLog_005
  - dbo.ParameterLog_006
  - dbo.ParameterLog_007
  - dbo.ProcessLog_001
  - dbo.ProcessLog_002
  - dbo.ProcessLog_003
  - dbo.ProcessLog_004
  - dbo.ProcessLog_005
  - dbo.ProcessLog_006
  - dbo.ProcessLog_007
  - dbo.ServiceLog
  - dbo.StageLog_001
  - dbo.StageLog_002
  - dbo.StageLog_003
  - dbo.StageLog_004
  - dbo.StageLog_005
  - dbo.StageLog_006
  - dbo.StageLog_007
  - dbo.SYS_PART_Config
  - dbo.SYS_PART_TableList
  - dbo.SYS_PART_Views
  - dbo.SYS_PART_ViewTables
  - dbo.SYS_SETTINGS
  - dbo.TestCase
  - dbo.TestCase_Flows
  - dbo.TestPlan
  - dbo.TestPlan_Case
- Views
  - System Views
  - dbo.EventLog
  - dbo.ParameterLog
  - dbo.ProcessLog
  - dbo.ProcessView
  - dbo.StageLog
  - dbo.TestResultsView
  - dbo.View-Process