

Test system Build Diary

Updated: 19/08/2021

2021 R3 (V12 patch 27) Multi-Main (Application Cluster) installation



Disclaimer

This document is provided "as is" and is for your guidance and educational purposes only. It does not replace the Online documentation, nor is any warranty expressed nor implied for the steps described herein.

Document Information

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Introduction

What is a "Build Diary"

A Build Diary simply describes the steps taken by Sage Support to perform a task or tasks on our internal test systems. Build diaries could be created for major multi-node installations, but may also just be describing the steps taken when installing a small hotfix, or anything in-between.

Why is this being shared

It may be useful for you to see the steps we have taken to create or implement some feature or installation, as this may highlight "gotcha's", issues encountered or just give you some guidance if you are planning something similar yourself.

You could potentially use these documents as the base for your own "Workplan document" (Described in "Overview of patching X3 and supporting technologies" https://www.sagecity.com/gb/sage-x3uk/b/sage-x3-uk-support-insights/posts/sage-x3-technical-support-tips-and-tricks---march-2021-index when you are planning your own activities

Target Audience

This document is aimed at Sage X3 Certified Technical consultants. Sage prescribe that X3 system installation, maintenance, migrations, etc. should be performed by suitably qualified Sage X3 consultants. The prerequisite consideration would be for them to have the latest "Sage X3 Certified Technical Consultant" certification. You can read more about the Sage X3 qualifications and requirements in Sage University (https://sageu.csod.com/catalog/CustomPage.aspx?id=20000242#tc)

Additional things to note

- This document does NOT purport to illustrate "best practice" for the task being described
- The steps described will not necessarily be for a "perfect" task, as there may have been issues that needed to be overcome, worked around, or ignored
- The Sage internal test system has network and hardware configuration specific to Sage
- The Sage internal test system does not necessarily include a Windows Domain and has Sage sandbox specific Windows security setup, so operating system permissions are generally not discussed
- If you intend to use these notes as a guide for your own activities, use with caution and perform your own testing to ensure the described steps are suitable and identify any additional considerations that apply to your own situation
- Ensure you only install and use software you are licensed for

What does this Build Diary describe?

This build diary primarily describes the creation of a three-node new installation, with installation and configuration of three node Multi-Main (Application Cluster) for use as an internal TEST system, using software versions:

- Windows Server 2019
- SQL Server 2019
- X3 version 2021 R3



2021 R3 - Multi-Main build diary

Starting architecture and notes

Three Windows Server 2019 servers (Server names X3DB, X3WEB and X3PRT)

Software already loaded:

Windows Server 2019

OpenJDK 1.8.0_282

Edge, Firefox and Chrome browsers

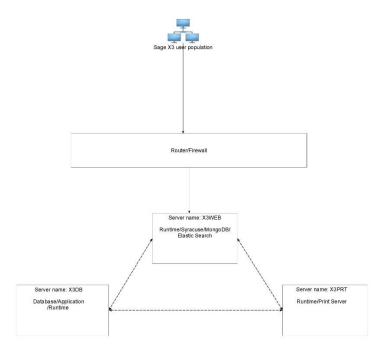
7-Zip 19.00

Windows users setup (Local users)

"x3admin" for installation and management

"X3run" for service runtime

Target architecture (Sage X3 2021 R3)



Summary of components to install, per server

Database/Sage X3 Application/Runtime Server (Server name X3DB)

SQL Server 2019

SQL Server Management Studio 18.8 ** See note below

ADXAdmin

Sage EM SQL Server Database Configuration

Apache 2.4

X3 Console

Application

Runtime



Sage X3 Runtime and Web Server (Server name X3WEB)

SQL Server Management Studio 18.8 **

ODBC v17

Command Line Utilities v15

ADXAdmin

Runtime

Elastic Search

MongoDB

Syracuse

Sage X3 Runtime and Print Server (Server name X3PRT)

SQL Server Management Studio 18.8 **

ODBC v17

Command Line Utilities v15

ADXAdmin

Runtime

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Print Server

** Although I'm using SSMS 18.8, it is recommended to use latest version (currently 18.9.1) as described in "Microsoft® Windows - Microsoft® SQL Server 2019/2017/2016" https://online-help.sageerpx3.com/erp/12/public/prerequisites windows-sql-server.html



Documentation to use for planning and execution of this task

Sage Online documentation

Overall V12 documentation

http://online-help.sageerpx3.com/erp/12/public/index.html

Pre-requisites

http://online-help.sageerpx3.com/erp/12/public/Prerequisites-(Last-version).html http://online-help.sageerpx3.com/erp/12/public/prerequisites overview.html

Installation documentation

http://online-help.sageerpx3.com/erp/12/public/getting-started_sage-erp-x3-installation-procedure.html

Application Server : https://online-help.sageerpx3.com/erp/12/staticpost/installing-the-application-server/

Console: https://online-help.sageerpx3.com/erp/12/public/configuration-console console.html

Application cluster: https://online-help.sageerpx3.com/erp/12/wp-static-content/public/Application%20Cluster%20Architecture/Default.htm

Sage Knowledgebase articles or Blogs

Additional notes when installing Application Cluster https://support.na.sage.com/selfservice/viewdocument.do?externalId=109651

Which firewall ports need to be open in a multi-node environment https://support.na.sage.com/selfservice/viewdocument.do?externalId=102936

Additional notes when upgrading ElasticSearch

https://support.na.sage.com/selfservice/viewdocument.do?externalId=99424

New feature in 2021 R3: Multiple print server instances https://www.sagecity.com/gb/sage-x3-uk/b/sage-x3-uk-support-insights/posts/new-feature-in-2021-r3-multiple-print-server-instances

External sites (e.g. Microsoft, etc.)

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IANA-managed Reserved Domains https://www.iana.org/domains/reserved

SMB: File and printer sharing ports should be open

https://docs.microsoft.com/en-us/windows-server/storage/file-server/best-practices-analyzer/smb-open-file-sharing-ports



Initial steps

As I am using a non-routable domain (example.com) and don't have a DNS server, so will setup the hosts file on each server

Make note of the IP addresses for the three servers. This hosts information will be merged into each servers existing "hosts" file (located in "C:\Windows\System32\drivers\etc"). I also modify the IP Address to "127.0.0.1" instead of the IP address for the server I'm on.

For example:

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```
### Hosts file
10.10.10.59 X3DB X3DB.example.com
10.10.10.38 X3WEB X3WEB.example.com
10.10.10.43 X3PRT X3PRT.example.com
```

Update Firefox, Chrome and Edge to make sure I'm on the latest browser versions

Copy over latest Sage Support "Investigation Scripts"



Database/Sage X3 Application/Runtime Server (Server name X3DB)

Update hosts file

SQL Server 2019 installation

T:\Software\SQLserver2019

Mount the ISO image "en_sql_server_2019_enterprise_x64_dvd_5e1ecc6b.iso"
Run "setup.exe"

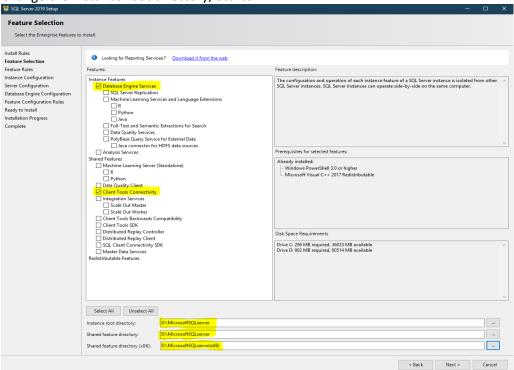
Select "New SQL Server stand-alone installation"

Click through product key

Selected features:

Database Engine Services Client Tools connectivity

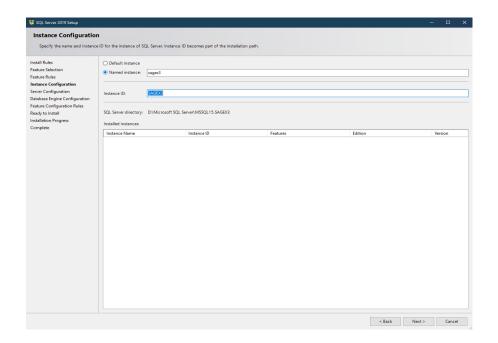
Change the Instance root directory, etc. to D:



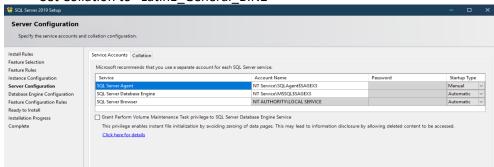
Named instance: sagex3

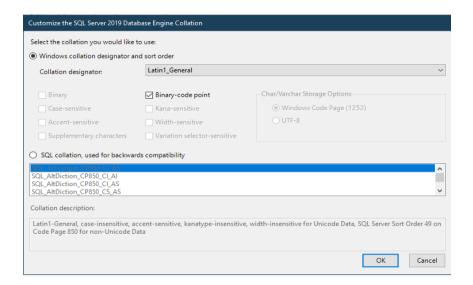
Updated: 19/08/2021



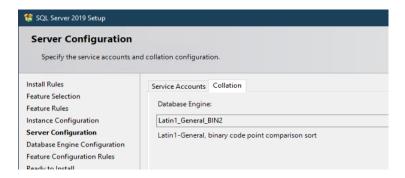


Set Collation to "Latin1 General BIN2"

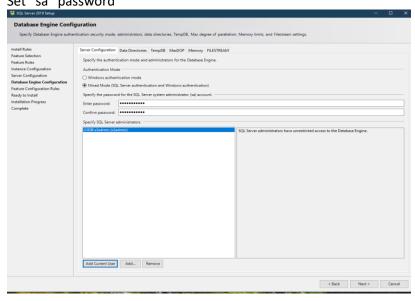


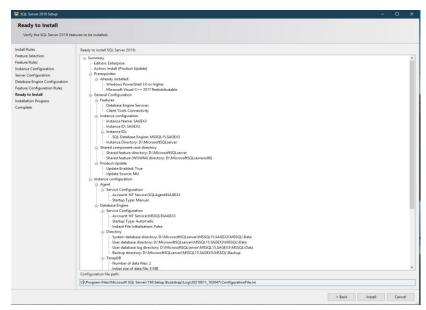






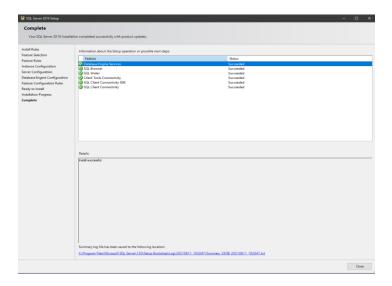
Set "mixed mode" Add current user Set "sa" password





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Install SQL Server Management tools (18.8)
T:\Software\SSMS18\SSMS-Setup-ENU_18.8.exe

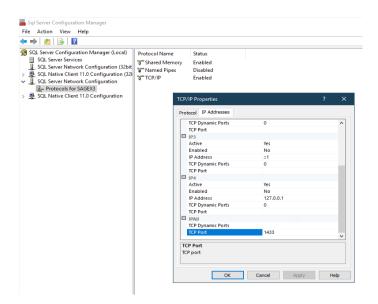
Change drive to D:



Restart server when prompted
Test can connect to the database using SSMS
X3DB\SAGEX3
Windows Authentication
Pin SSMS to taskbar

Setup SQL Server to listen on specific port for TCP/IP, so can access the database through a firewall.

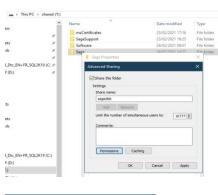


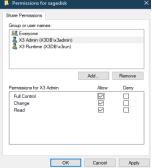


Restart SQL Server services and test can still connect via SSMS

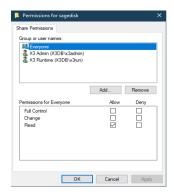
Sage X3 preparation and installation

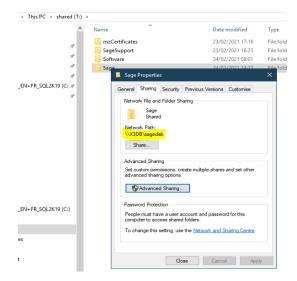
Create "T:\Sage" directory and setup Full control for x3run and x3admin users Setup Windows share on T:\Sage for use as shared drive for the Sage X3 runtime servers











So my shared network location for installing Sage X3 will be "\\X3DB\sagedisk"

Download Patch 27 ISO from

https://ukienterprisedownloads.sage.co.uk/Support/SageX3/X3V12/ISO_Images/12.0.27/_to T:\Software\ISO

Extract ZIP file and mount ISO image

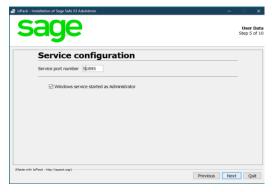
Install ADXAdmin

Launch "adxadmin-93.3.45.jar" from directory "E:\X3Installs\AdxAdmin"

Installing Sage software into "D:\sage" directory







Install SQL Server Database configuration Run "db-sql-2.0.0-win.jar" from the directory "E:\X3Installs\DbSQL"





Install Apache

 $\label{lem:condition} \mbox{Extract "httpd-2.4.41-Win64-VC16.zip" from directory "T:\Software\Apache\Apa$

NOTE: Visual C++ Redistributable for Visual Studio 2015-2019 x64 is already installed

Edit httpd.conf to change port number being used, set servername and change SRVROOT

Listen 8080 ServerName X3DB Define SRVROOT "d:/Apache24"

Launch Command prompt using "As administrator" and run the following:

cd /d D:\Apache24\bin
httpd -k install
httpd -k start

Test it works OK with following URL

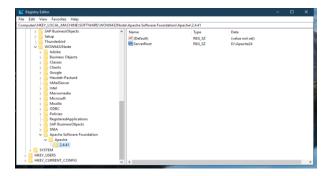
http://localhost:8080/

Update registry manually using "regedt32" (otherwise Apache is missing from the drop down list in the X3 Console)

HKLM-->Software--> Wow6432Node

Create new key "Apache Software Foundation" Create new Key below this called "Apache"

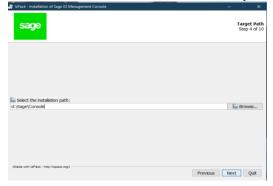
Create new key below Apache called "2.4.41" (Version number)
Create String Value called "ServerRoot" with value "D:\Apache24"



Install X3 Console

NOTE: .NET 4.7.2 is already installed on this image

Launch "console-2.51.0.17-win.jar" from directory "E:\X3Installs\Console"



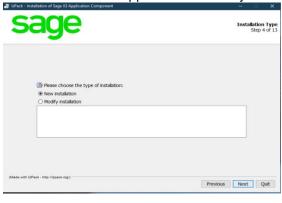


Turn on debug logging on X3 Console Launch X3 console Console> Settings> Global config.global.debug Set to TRUE

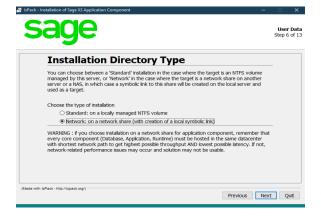
> Save Exit Console

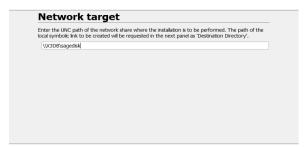
Install Application

Launch "x3-application-12.0.27.jar" from directory "E:\X3Installs\Application"

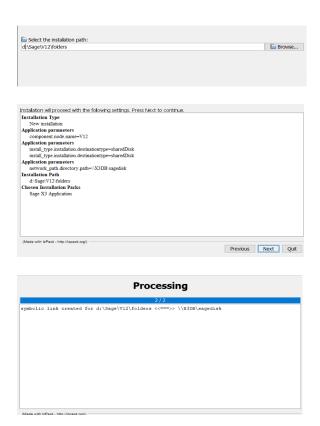








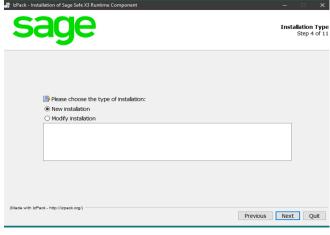




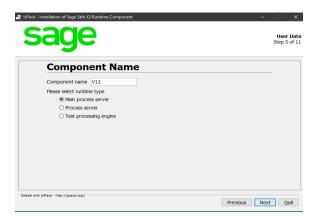
Takes around 15 minutes to complete this process

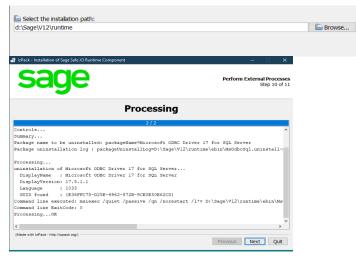
Install Runtime

Launch "runtime-93.3.45.jar" from directory "E:\X3Installs\Runtime"



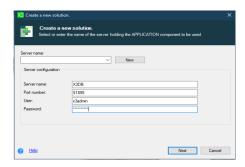




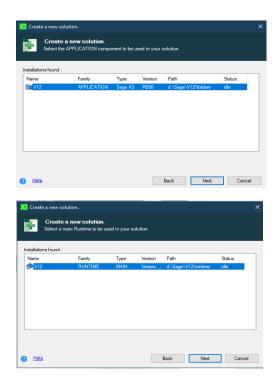


Run Sage EM console to configure the solution

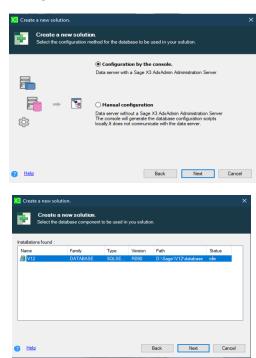
Add new solution for server name X3DB



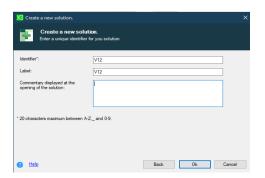


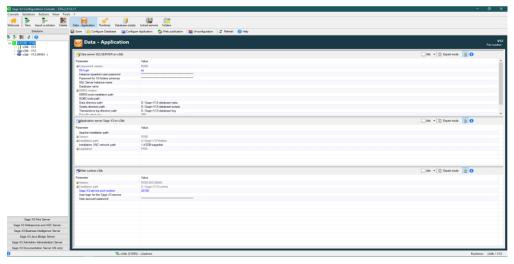


Configure database via console









Configure database

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Enter Instance sysadmin (sa) user password

Password for X3 folders schemas

SQL Server instance name = SAGEX3 (from dropdown)

Database name = sagex3

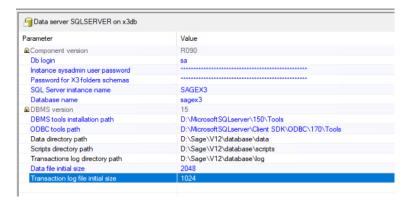
DBMS tools installation path = D:\MicrosoftSQLserver\150\Tools (from dropdown)

ODBC tools path = D:\MicrosoftSQLserver\Client SDK\ODBC\170\Tools (from dropdown)

Data file initial size = 2048

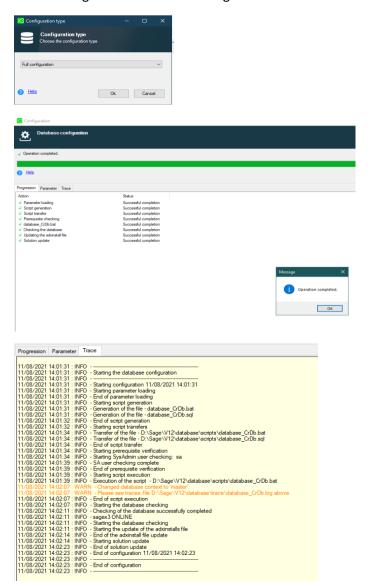
Transaction log initial size = 1024





Click "Save"

Click "Configure Database" to configure database server





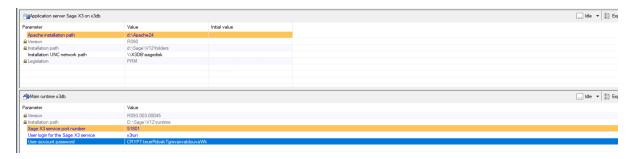
Configure Application/Runtime

Apache installation path = d:\Apache24 (wasn't in the dropdown list, so my registry tweak didn't work for some reason. Manually typed it in as a workaround)

Safe X3 service port number = 51801

User login for the SAFE X3 service = x3run

User account password

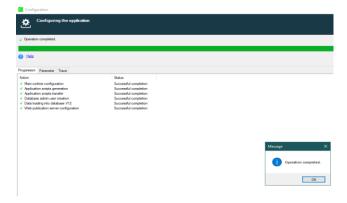


Click "Save" then "Configure Application" to configure



Takes about 15 minutes

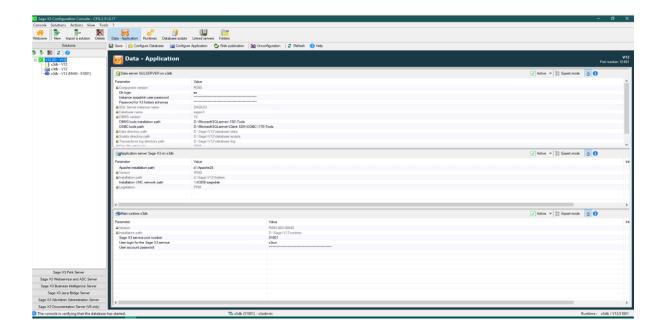
Completed OK





```
| 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001/2011 1001
```







Sage X3 Runtime and Web Server (Server name X3WEB)

Update hosts file

Update firewall rules as per "Which firewall ports need to be open in a multi-node environment" https://support.na.sage.com/selfservice/viewdocument.do?externalId=102936
Also checked https://docs.microsoft.com/en-us/windows-server/storage/file-server/best-practices-analyzer/smb-open-file-sharing-ports

Update X3DB to allow from X3WEB

TCP 1433 (Database)

UDP 1434 (Database)

TCP 8080 (Apache)

TCP 51801 (Runtime)

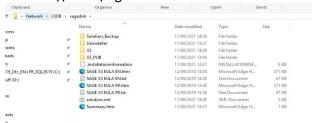
TCP 139 and 445 (Windows Fileshare)

Update X3WEB to allow from X3DB

TCP 51895 (AdxAdmin) TCP 51801 (Runtime)

Check can access shared disk

\\X3DB\sagedisk



Install SQL Server Management tools (18.8)

T:\Software\SSMS18\SSMS-Setup-ENU_18.8.exe
Change install drive to "D:\Microsoft SQL Server Management Studio 18"
Pin to taskbar

Test can connect to the database using SSMS Server name: X3DB\SAGEX3

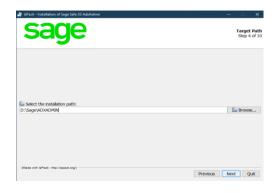
Login as "sa" user

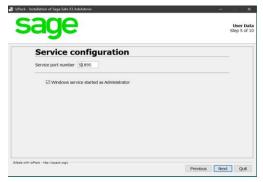
Install ADXAdmin

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Launch "adxadmin-93.3.45.jar" from directory "E:\X3Installs\AdxAdmin"

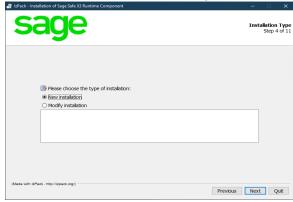


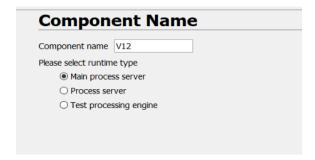




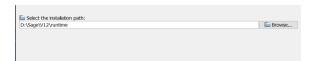
Install Main Runtime

Launch "runtime-93.3.45.jar" from directory "E:\X3Installs\Runtime"



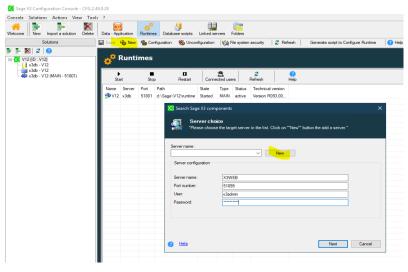


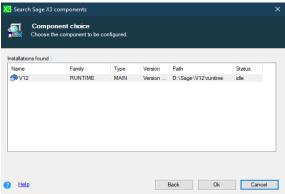


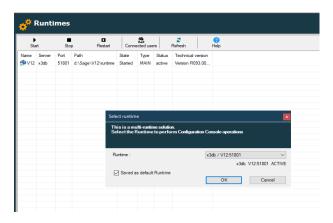


Run Sage X3 console to configure the solution

Add new Runtime for server X3WEB







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Selected ODBC tool path, but nothing is shown in the drop down list. *I'd missed some of the pre-reqs!!* https://online-help.sageerpx3.com/erp/12/public/prerequisites_windows-sql-server.html

Download and install the ODBC v17, then the Command Line Utilities v15

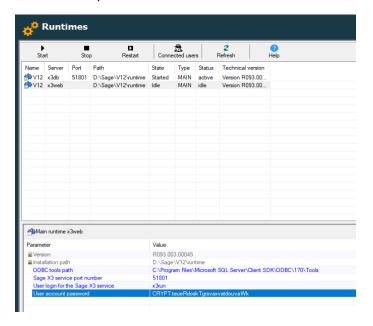
Restart server

 $ODBC\ tools\ path = C:\Program\ Files\Microsoft\ SQL\ Server\Client\ SDK\ODBC\170\Tools\ (From\ dropdown\ list)$

Safe X3 service port number = 51801

User login for the SAFE X3 service = x3run

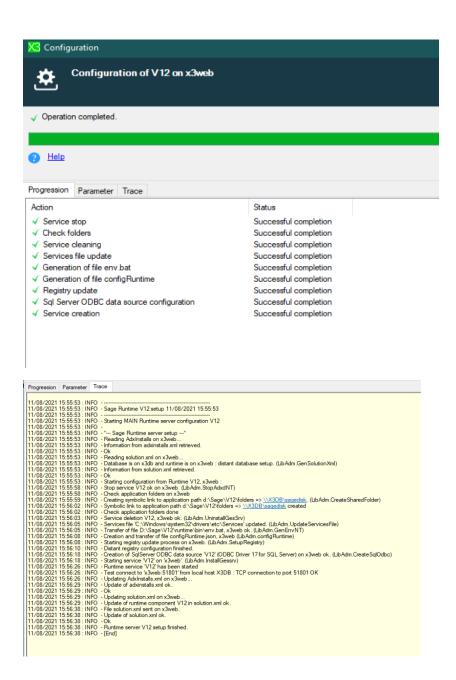
User account password

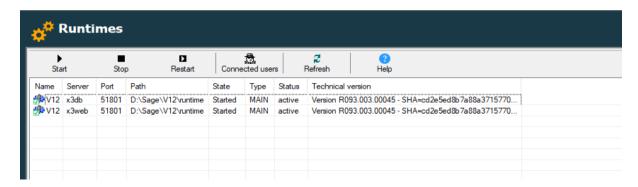


Click "Configuration"

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Install Elastic Search

Use "elasticsearch-7.9.3-windows-x86_64.zip" from directory "T:\Software\ElasticSearch"

Follow the directions in "Additional notes when upgrading ElasticSearch" https://support.na.sage.com/selfservice/viewdocument.do?externalId=99424

Installed into D:\elasticsearch-7.9.3

Created and run batch file "installElastic.cmd" in T:\Software\ElasticSearch

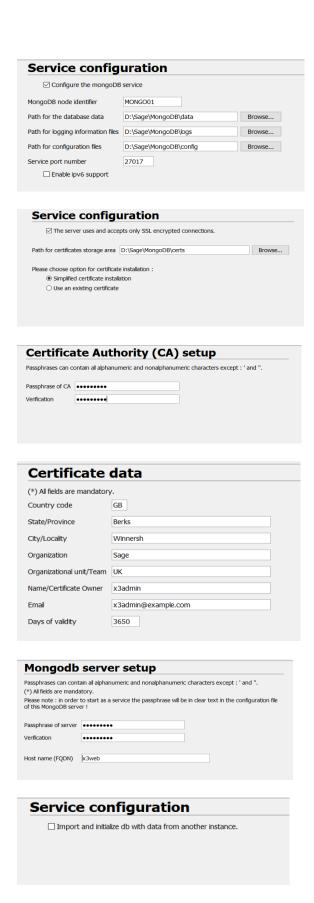
```
REM Run as administrator
REM Set the following variables to suit your environment
set "mzNewServiceName=ElasticSearch_7.9"
set "ES_HOME=D:\elasticsearch-7.9.3"
set "JAVA_HOME=C:\Program Files\Zulu\zulu-8\"
REM The following lines should not need to be changed
cd /d "%ES_HOME%\bin"
set "ES_PATH_CONF=%ES_HOME%\config"
set "ES_START_TYPE=auto"
set "SERVICE_ID=%mzNewServiceName%"
set "SERVICE_DISPLAY_NAME=%mzNewServiceName%"
set "SERVICE_DESCRIPTION=%mzNewServiceName%"
elasticsearch-service.bat install
pause
```

Install MongoDB

Use "Mongodb_4.2.12.zip" (mongo-db-4.2.12.10.jar) from directory "T:\Software\MongoDb"



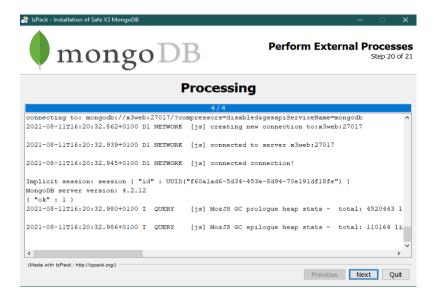




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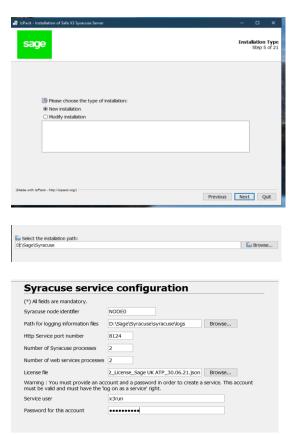


Completed OK



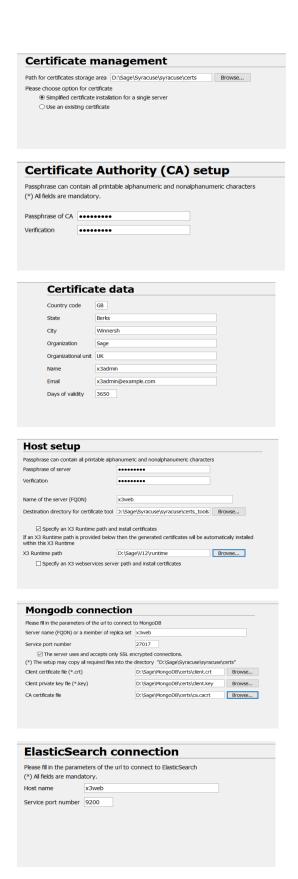
Install Syracuse

Launch "syracuse-server-12.12.0.51.jar" from directory "E:\X3Installs\SyracuseServer"



License file located in "T:\Software\License\"





Finished OK

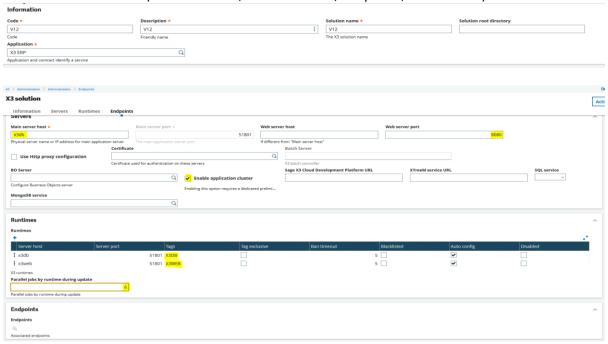


Copy "x3web.pem" from X3WEB Syracuse D:\Sage\Syracuse\certs_tools\output to X3DB runtime D:\Sage\V12\runtime\keys

Launch browser and go to Sage X3 login page http://localhost:8124

Login as ADMIN user

Create new X3 Solution (Administration, Administration, Endpoints, X3 Solutions)

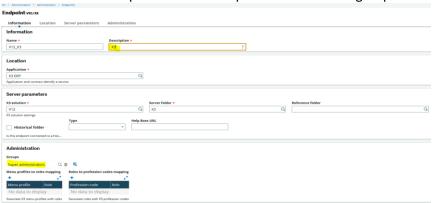


Save the above changes

Use the "Check all servers settings" option to confirm settings all OK



Navigate to Administration, Administration, Endpoints, Endpoints Edit "X3" endpoint and add "Super administrators" group



Save

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Execute the "Personalizations and Menus initialization" option (otherwise menus are missing)



Logout, login

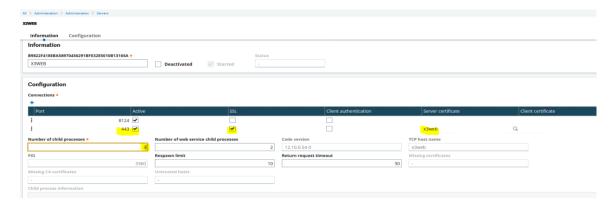
Connect to X3 folder

Launch classic function (Parameters, Users, Users) to execute the supervisor installation





Add 443 to the hosts setup (Administration, Administration, Servers, Hosts) Keep 8124 as the first in the list



Add 443 to the firewall rules of X3WEB (all IP addresses)



Sage X3 Runtime and Print Server (Server name X3PRT)

Update hosts file

Update firewall rules as per "Which firewall ports need to be open in a multi-node environment" https://support.na.sage.com/selfservice/viewdocument.do?externalId=102936
Also checked https://docs.microsoft.com/en-us/windows-server/storage/file-server/best-practices-analyzer/smb-open-file-sharing-ports

Update X3DB to allow from X3PRT

TCP 1433 (Database)

UDP 1434 (Database)

TCP 8080 (Apache)

TCP 51801 (Runtime)

TCP 139 and 445 (Windows Fileshare)

Update X3PRT to allow from X3DB

TCP 51895 (AdxAdmin)

TCP 51801 (Runtime)

TCP 51890 (Print Server)

TCP 51891 (Print Server)

Update X3PRT to allow from X3WEB

TCP 51801 (Runtime)

TCP 51890 (Print Server)

TCP 51891 (Print Server)

Update X3WEB to allow from X3PRT

TCP 51801 (Runtime)

TCP 51890 (Print Server)

TCP 51891 (Print Server)

Check can access shared disk

\\X3DB\sagedisk

Install SQL Server Management tools (18.8)

T:\Software\SSMS18\SSMS-Setup-ENU_18.8.exe

Change install drive to "D:\Microsoft SQL Server Management Studio 18"

Pin to taskbar

Install the ODBC v17, then the Command Line Utilities v15

Restart server

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Test can connect to the database using SSMS

Server name: X3DB\SAGEX3 Login as "sa" user

Install ADXAdmin

Launch "adxadmin-93.3.45.jar" from directory "E:\X3Installs\AdxAdmin"



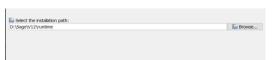
Install Main Runtime

Launch "runtime-93.3.45.jar" from directory "E:\X3Installs\Runtime"

Previous Next Quit



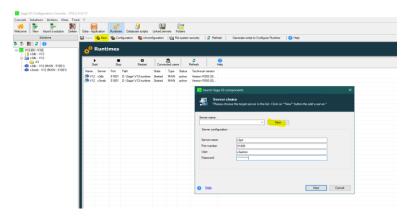






Configure runtime in X3 console

Add X3PRT in "Runtimes"



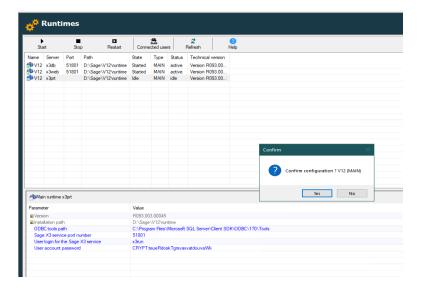
ODBC tools path: C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tools (from dropdown)

Port number: 51801

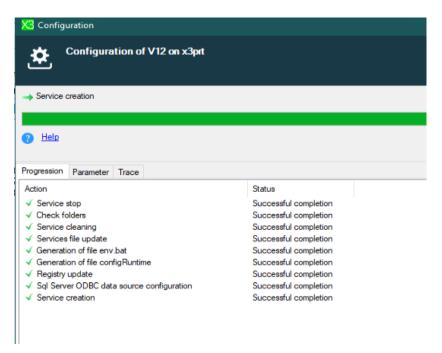
User login: x3run

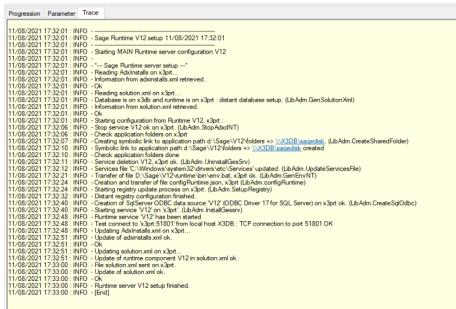
Click "Configuration"

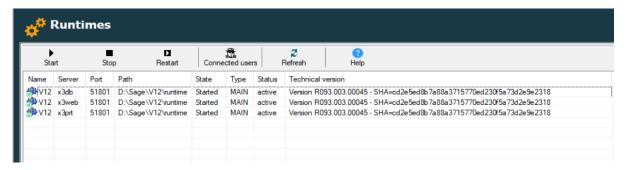
Updated: 19/08/2021









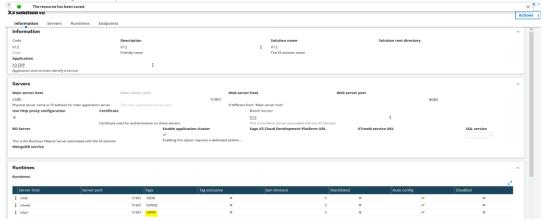




Add runtime to X3 solution

Administration, Administration, Endpoints, X3 Solutions Click "Synchronize runtimes"

Add the Tag for x3prt



Run the "Check all server settings" test



Copy "x3web.pem" file from "D:\Sage\Syracuse\certs_tools\output" to "D:\Sage\V12\runtime\keys" directory on X3PRT server

Re-start Syracuse service

Print Server installation and configuration

Follow the Blog article "New feature in 2021 R3: Multiple print server instances" https://www.sagecity.com/gb/sage-x3-uk/b/sage-x3-uk-support-insights/posts/new-feature-in-2021-r3multiple-print-server-instances

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Finishing off tasks

Setup SEED folder

On X3DB server:

Mount SEED ISO image

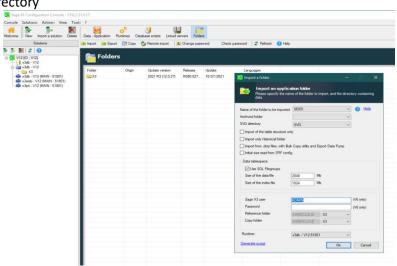
Open archive "E:\Seed\x3-seed-12.0.27.zip" in 7-zip

Extract archive to "T:\Sage"

Import SEED in X3 Management Console

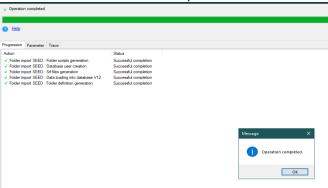
Select solution and click the folders icon

Click Import, select the SEED folder from the drop-down list and make sure that SVG is set as the data directory



Takes about 30 minutes to complete

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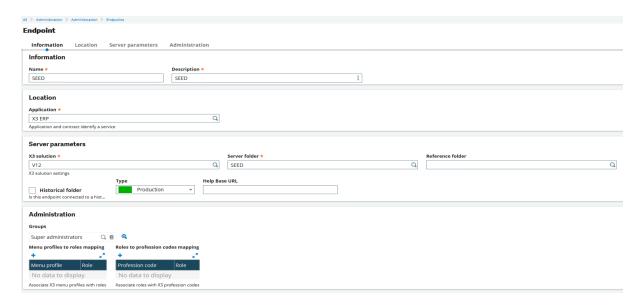
Switch to X3WEB server and login as ADMIN user

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Define endpoint for the SEED folder

Administration, Administration, Endpoints, Endpoints





Logout, login and connect to SEED folder to check results

Apply mandatory patches

Mount 12.0.27 ISO

Check for patches in E:\X3Installs\Patch

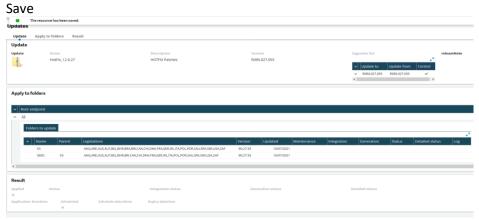
HotFix_12.0.27.zip exists and needs to be applied

Apply patch via Administration, Utilities, Update, Updates

New update

Upload HotFix_12.0.27.zip

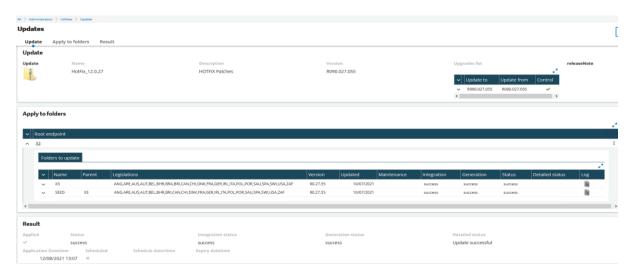
Select X3 as folder to apply to



Select "Apply Update" and check results

Completes in around 2 minutes





Setup user for batch server and change batch server to use this user

Create role "batch" using ERPFULL badge

Create group "batch" linked to "batch" role and with "SEED" and "X3" endpoints

Create user "batch" linked to group "batch"

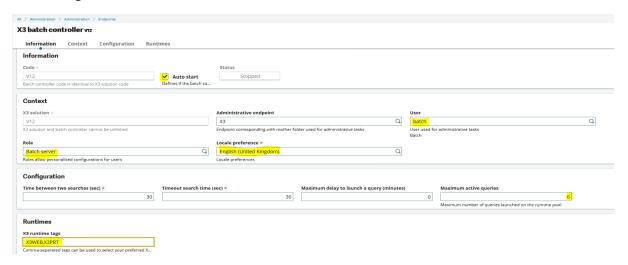
Create folder user "batch" for X3 and SEED folders, copied from ADMIN

Administration, Administration, Endpoints, Batch server

Set Auto Start

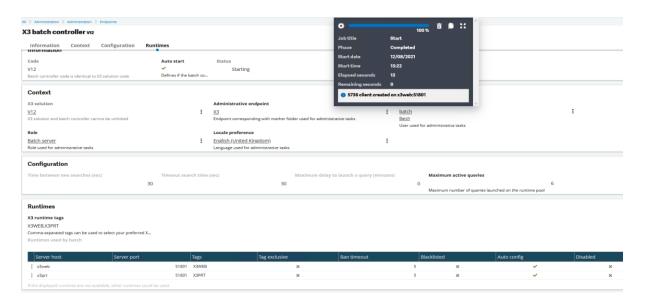
Change the user, Role and Locale and set the number of queries for the runtimes

NOTE: I am restricting the batch server to only use two out of the three runtime servers using the "X3 runtime tags"



Startup the Batch Server





Check Accounting Tasks for the SEED folder

Connect to SEED folder

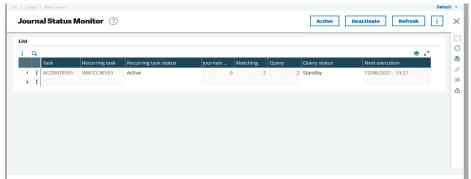
Check setup via Parameters, Financials, Accounting Interface, Accounting Tasks



Navigate to Usage, Batch Server, Accounting Tasks

Click "Active" button and Start the Accounting Tasks

Click "Refresh" button to confirm status "Active" and a number is allocated to "Query"



Usage, Batch Server, Query Management

Should see the task running





Setup user for use with Web Services

Create role "webserver" using ERPFULL badge

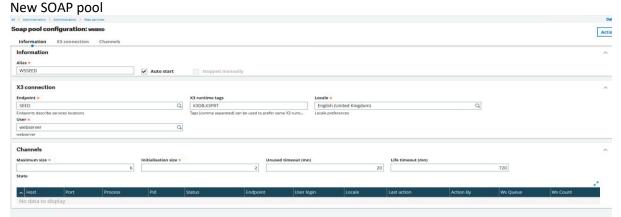
Create group "webserver" linked to "webserver" role and with "SEED" endpoint

Create user "webserver" linked to group "webserver"

Create folder user "WEBSV" for SEED folder, copied from ADMIN

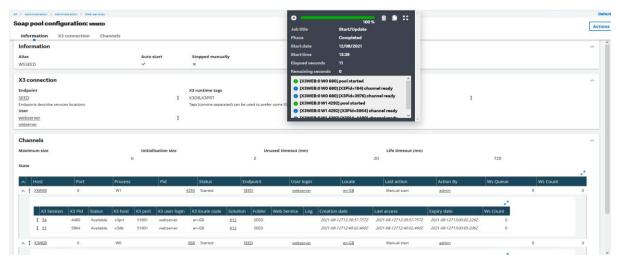
Setup SOAP Classic Pool for SEED folder

 $Navigate\ to\ Administration,\ Administration,\ Web\ Services,\ Classic\ SOAP\ pools\ configuration.$



NOTE: I am restricting the SOAP Pool to only use two out of the three runtime servers using the "X3 runtime tags"

Start the web pool



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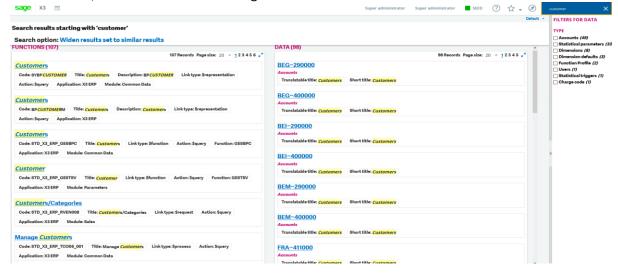


Update search index (Elastic Search) and check works OK

Connect to SEED folder
Go to Administration, Usage, Search Index Management
Select Delete index before update
Click Update index

Takes about 20 minutes to complete

Once finished, check can do a search - e.g. search for text "Customer" should return some data:





Testing, testing, testing

Updated: 19/08/2021

Complete your testing, ensuring the Runtime load balancing is working as expected, include some failover scenarios such as one or multiple runtime nodes failing.



Conclusion

Updated: 19/08/2021

This "Build diary" document provides a three-server installation for informal testing, primarily aimed at the Multi-Main runtime functionality