

# Test system Build Diary

2021 R3 (V12 patch 27) Convert a multiple runtime setup to Multi-Main runtime

Updated: 08/11/2021

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#### 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**

Author: Mike Shaw, Sage UK X3 Support Team

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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" <u>https://www.sagecity.com/gb/sage-x3-uk/b/sage-x3-uk/b/sage-x3-technical-support-tips-and-tricks---march-2021-index</u>) 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 (<u>https://sageu.csod.com/catalog/CustomPage.aspx?id=20000242#tc</u>)

#### 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 how to convert an existing multiple runtime environment to instead use the Multi-Main runtime setup.



# 2021 R3 (V12 patch 27) Convert a multiple runtime setup to Multi-Main runtime

#### Objective

After upgrading my existing X3 multiple runtime system to patch 27, I now want to convert my existing system to use a Multi-Main runtime setup instead. Multi-Main gives better performance and failover stability, so want to take advantage of this new functionality now I have upgraded to a version that supports this feature.

Note that the system architecture will not change, nor will the X3 versions. I am simply changing my runtime servers to use Multi-Main setup.

#### Starting architecture and notes

Two Windows Server 2016 servers (Server names X3ERPV12VM and X3SECOND) Software already loaded: Windows Server 2016 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 X3 versions X3 Patch 27 Syracuse 12.12.0.51-0 AdxAdmin/Runtime 93.3.45

X3 Console 2.51.0.17

#### Summary of steps to convert secondary runtime setup to Multi-Main

- Unconfigure and uninstall any secondary runtime servers
- Create and configure all servers to use shared drive for X3 Application folder
- Configure original MAIN runtime server to use shared drive
- Re-install the original secondary runtime servers as MAIN runtimes
- Finalise X3 configuration
- Testing of the system once the tasks is completed



#### 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 : <u>https://online-help.sageerpx3.com/erp/12/staticpost/installing-the-application-server/</u>

Console: <u>https://online-help.sageerpx3.com/erp/12/public/configuration-console\_console.html</u>

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

Sage Knowledgebase articles or Blogs Additional notes when installing Application Cluster <u>https://support.na.sage.com/selfservice/viewdocument.do?externalId=109651</u>

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

External sites (e.g. Microsoft, etc.) SMB: File and printer sharing ports should be open <u>https://docs.microsoft.com/en-us/windows-server/storage/file-server/best-practices-analyzer/smb-open-file-sharing-ports</u>



#### Steps to convert secondary runtime architecture to Multi-Main

#### Initial setup and checks

Shutdown Syracuse on both nodes Shutdown Print Server from MAIN node Shutdown MAIN runtime service

#### Make sure all node.exe and adonix.exe have disappeared on both nodes

#### Unconfigure and uninstall any secondary runtimes

In X3 console, unconfigure additional runtime





| 📊 🔀 Configuration   |   |                        |
|---|---|------------------------|
| Drop of X3ERPV1   | 2 on x3second   |                        |
| ✓ Operation completed.  |   |                        |
| ito<br>vv ?? <u>Help</u><br>ятр   |   |                        |
| Progression Parameter Trace   |   |                        |
| Action<br>✓ Service stop<br>✓ Service deletion<br>✓ Registry cleaning<br>✓ Files deletion | Status<br>Successful completion<br>Successful completion<br>Successful completion |                        |
|   | Mes   | sage X                 |
|   |   | j Operation completed. |
|   |   | ОК                     |

#### Uninstall runtime from additional runtimes

| 📙   💆 📙 📼   D:\Sage\X3ERPV12\runtime\Uninstaller |                           |   |                    |   |          |                |
|--|---------------------------|---|--------------------|---|----------|----------------|
| File Home Share View                             |                           |   |                    |   |          |                |
|  | Delete Rename<br>Organise | Rew item ▼<br>T Easy access ▼<br>v<br>er<br>New | Properties<br>Open | Select all<br>Select none<br>Invert selection<br>Select |          |                |
| ← → ∽ ↑ 📑 > This PC > main (D:) > Sage >         | X3ERPV12 > runtime > Uni  | installer                                       |                    |   | ~        | ی<br>Search Ur |
| > 🚽 Downloads                                    | ^ Nam                     | ne ^  |                    | Date modified   | Туре     | Size           |
| > 👌 Music  |                           | uninstaller iar                                 |                    | 04/08/2021 09:10  | IAR File | 391 KB         |
| > E Pictures                                     |                           | UninstallerIcon.ico                             |                    | 04/08/2021 09:10  | Icon     | 134 KB         |
| > 📕 Videos                                       |                           |   |                    |   |          |                |
| > 🏪 C-W2K16StdEd-MUI (C:)                        |                           |   |                    |   |          |                |
| Y 👝 main (D:)                                    |                           |   |                    |   |          |                |
| V A Sage   |                           |   |                    |   |          |                |
| > MongoDB  |                           |   |                    |   |          |                |
| > SafeX3   |                           |   |                    |   |          |                |
| > Syracuse                                       |                           |   |                    |   |          |                |
| ASERPVIZ   |                           |   |                    |   |          |                |
| advd   |                           |   |                    |   |          |                |
| advdlog  |                           |   |                    |   |          |                |
| adxdtra  |                           |   |                    |   |          |                |
| bin  |                           |   |                    |   |          |                |
| cfg  |                           |   |                    |   |          |                |
| ebin   |                           |   |                    |   |          |                |
| 🔜 inst   |                           |   |                    |   |          |                |
| > 📙 instantclient_19_3                           |                           |   |                    |   |          |                |
| > instantclient_19_8                             |                           |   |                    |   |          |                |
| keys   |                           |   |                    |   |          |                |
| 📙 lan  |                           |   |                    |   |          |                |
| lib  |                           |   |                    |   |          |                |
| logs   |                           |   |                    |   |          |                |
| sem  |                           |   |                    |   |          |                |
| tmp  |                           |   |                    |   |          |                |
| Uninstaller                                      |                           |   |                    |   |          |                |



| 🌦 IzPack - Uninstaller      | -         |           | ×       |
|-----------------------------|-----------|-----------|---------|
| 😣 This will remove the inst | alled app | lication! |         |
| Force the deletion of d     | \Sage\X   | 3ERPV12   | runtime |
|                             |           |           |         |
| 📷 Uninstall                 |           |           | Quit    |
|                             |           |           |         |

#### Setup shared disk on X3ERPV12VM server

In my simple test scenario, I will use my original MAIN server as the host for my shared disk. For a LIVE system, you would of course use some kind of network share location which is robust and highly available, such as Network-attached storage (NAS) or Storage Area Network (SAN).

Create "E:\SageSharedDisk" directory and setup Full control for "x3run" and "x3admin" users Setup Windows share on "E:\SageSharedDisk" for use as shared drive. NOTE: You can use "hidden" share names if you wish (i.e. use '\$' at end of sharename)





| 📕 Sage        | SharedDis                  | k Propert                   | ies                             | ×              |
|---------------|----------------------------|-----------------------------|---------------------------------|----------------|
| General       | Sharing                    | Security                    | Previous Versions               | Customise      |
| Netwo         | ork File and               | Folder Sh                   | aring                           |                |
|               | SageS<br>Shared            | haredDisk<br>1              |                                 |                |
| Netw<br>\\X3  | ork Path:<br>ERPV12VN      | I\SageShi                   | aredDisk                        |                |
| S             | hare                       |                             |                                 |                |
| Advar         | nced Sharir                | ng                          |                                 |                |
| Set c<br>adva | ustom perm<br>nced sharir  | nissions, cr<br>ng options. | eate multiple shares            | and set other  |
|               | Advance                    | d Sharing                   |                                 |                |
| Passv         | vord Protec                | tion                        |                                 |                |
| Peop<br>comp  | le must hav<br>uter to acc | ve a user a<br>ess shared   | ccount and password<br>folders. | rd for this    |
| To ch         | nange this s               | setting, use                | the <u>Network and S</u>        | haring Centre. |
|               |                            |                             |                                 |                |
|               |                            | Clo                         | cance                           | Apply          |

Update firewall rules to add Windows filesharing ports TCP 139 and 445 (Windows Fileshare)

Check you can access the following share from local server and **all** remote runtime servers, whilst logged in as X3 runtime user account

\\X3ERPV12VM\SageSharedDisk



#### Setup X3 to use shared disk

In Sage X3 Console, when connected on the X3 Solution tab:

- in the "Application server" windows (the one in the middle with the Apache path), click on the • "Expert mode" icon
- go right to the end to "Installation UNC network path" and double click for editing •

|   | n x3e                   | rpv12sqlvm  | 🖌 Active 🗄 Expert mode 👌 🚺                                    |              |
|---|-------------------------|---|---|--------------|
| - worker process temp   | ē 🔨                     | Parameter   | Value   | ^            |
| winnt process templa  | ti                      | Version   | R090  |              |
| Application component   |                         | lnstallation path   | D:\Sage\X3ERPV12\Folders                                      |              |
| / ppication component   | ¥                       | Installation UNC network path   |   |              |
| < >   |                         | ■ System  | WIN64   | ¥            |
| UNC network pa  | u UI<br>ath to<br>ied S | IC network path<br>o your directory "folders", in case<br>Storage) or a shared folder.          | of multiple MAIN X3 Runtime, and application fo               |              |
| Windows: <u>\\ser</u><br>This network pa<br>Ex: <u>\\NAS01\ru</u> | vern<br>th w<br>ntim    | ame <u>loath</u><br>ill be linked to the directory entere<br><u>esVolders</u> => C:\Sage\MYSOLU | ed in "component application path" on each Ru<br>TION folders | older on NAS |

Enter the appropriate share name, e.g. "\\X3ERPV12VM\SageSharedDisk"

Save the change and exit the Console

You can then check the "D:\Sage\X3ERPV12\Folders\solution.xml" so confirm it now has the UNC path



Manually move the folders directory to the shared drive location

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BuildDiary\_V12P27\_Convert2MultiMain.pdf

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#### Launch X3 Console Configure Application

| Sage X3 Configuration Console - CFG.2.5   | 1.0.17                                      |  | - 0                          |
|---|---|--|------------------------------|
| Console Solutions Actions View Tools  | : ?   |  |                              |
| 🦀 💽 💽 🕅   | 😼 o° 👌                                      | 🔛 💳  |                              |
| Welcome New Import a solution Delete  | Data - Application Runtimes Database script | a United servers Folders   |                              |
| Solutions   | 🔛 Save 🛛 📫 Configure Database 🛛 🙀 Config    | ure Application 🖄 Web publication 🛛 🚵 Unconfiguration 🖓 Refresh 👴 Help |                              |
| K1 ERP V12 on x3erpv12vm ID x3ER     X3 ERP V12 on x3erpv12vm     x3ERPV12SQL     x3erpv12vm - X3ERPV12SQL     x3erpv12vm - X3ERPV12SQL | <u> </u> Data - Application                 |  | X3E<br>Port number           |
| B- X3   | Bata server SQLSERVER on x3erpv12vm         |  | 🖌 Active 👻 🚉 Expert mode 👩 🚺 |
| - PU9MIG  | Parameter                                   | Value  |                              |
| B-C SEED  | Component version                           | R090   |                              |
| C3 HSEED  | Db login                                    | x3v12sa  |                              |
| - 🛞 x3erpv12vm - X3ERPV12RUN (MAIN  | Instance sysadmin user password             |  |                              |
| - A serpv12vm - X3V12PRTSVR (DEF/   | Password for X3 folders schemas             |  |                              |
| - x3erpv12vm - X3V12ADCSVR  | SQL Server instance name                    | SQL2K17FORX3   |                              |
|   | Database name                               | x3epv12  |                              |
|   | DBMS version                                | 14   |                              |
|   | DBMS tools installation path                | c:\Program Files\Microsoft SQL Server\140\Tools                        |                              |
|   | ODBC tools path                             | c:\Program Files\Microsoft SQL Server\Client SDK\ODBC\130\Tools        |                              |
|   | Data directory path                         | D-Sage V3ERPV12/Database \data   |                              |
|   | Scripts directory path                      | D:\Sage\V3ERPV12\Database\scripts                                      |                              |
|   | Iransactions log directory path             | D-Sage X3EHPV12/Database log   |                              |
|   |   |  |                              |
|   | Application server Sage X3 on x3erpv12vm    |  | Active V 🗄 Expert mode 👩 🚺   |
|   | Parameter                                   | Value  |                              |
|   | Apache installation path                    | D:\Sage\FreeComponents\Apache24  |                              |
|   | Set Version                                 | R090   |                              |
|   | linstallation path                          | D:\Sage\X3ERPV12\Folders   |                              |
|   | Installation UNC network path               | \\x3ERPV12VM\SageSharedDisk  |                              |
|   | Legislation                                 | PRM  |                              |
|   |   |  |                              |
|   |   |  |                              |
|   | Main runtime x3erpv12vm                     |  | 🖌 Active 👻 🚉 Expert mode 👌 🚺 |
|   | Parameter                                   | Value  |                              |
|   | Version                                     | R033.003.00045   |                              |
|   | Installation path                           | D\Sage\X3ERPV12\Runtime  |                              |
|   | Sage X3 service port number                 | 50012  |                              |
|   | User login for the Sage X3 service          | x3un   |                              |
|   | User account password                       |  |                              |
|   |   |  |                              |
|   |   |  |                              |
| 4   |   |  |                              |
|   |   |  |                              |
| Sage A3 Print Server  |   |  |                              |



| 1 | Configuration  |   |         | -  |      | ×  |
|---|--|---|---------|----|------|----|
|   | Configuring the main Processing  | Server  |         |    |      |    |
|   | Service creation   |   |         |    |      |    |
|   | Help   |   | Details | >> | Cano | el |
|   | Progression Parameter Trace  |   |         |    |      |    |
|   | Action<br>V Sencio dop<br>V Deck folders<br>Sencio claming<br>V Sencio claming<br>V Sencio claming<br>V Sencio claming<br>V Sencio configuration<br>V Regity update<br>V Sencio constituin<br>V Senci | Status<br>Successful completion<br>Successful completion<br>Successful completion<br>Successful completion<br>Successful completion<br>Successful completion<br>Successful completion |         |    |      |    |



| Configuration   |  |
|---|--|
| Configuring the main Processing server  |  |
| ✓ Operation completed.  |  |
|   |  |
| Help  |  |
| Progression Parameter Trace   |  |
| 27/39/2021 13:10:14         IND         - sage Runtime XSERPV12RUM setup 27/09/2021 13:10:14           27/39/2021 13:10:14         IND         - sage Runtime server configuration XSERPV12RUN           27/39/2021 13:10:14         IND         - sage Runtime server configuration XSERPV12RUN           27/39/2021 13:10:14         IND         - sage Runtime server configuration XSERPV12RUN           27/39/2021 13:10:14         IND         - sage Runtime server configuration XSERPV12RUN           27/39/2021 13:10:14         IND         - sage Runtime server configuration           27/39/2021 13:10:14         IND         - sage Runtime server reconfiguration           27/39/2021 13:10:14         IND         - Runtime server reconfiguration           27/39/2021 13:10:15         IND         - Runtime server reconfiguration           27/39/2021 13:10:15         IND         - runtime only and segery 12mm.           27/39/2021 13:10:15         IND         - runtime only and segery 12mm.           27/39/2021 13:10:15         IND         - runtime only and segery 12mm.           27/39/2021 13:10:15         IND         - runtime only and segery 12mm.           27/39/2021 13:10:15         IND         - runtime only and segery 12mm.           27/39/2021 13:10:16         IND         - runtime only and segery 12mm.           27/39/2021 13:10:16 <td< th=""><th>VX3ERPV12VM Sage SharedDak<br/>V 50012Aco: File not modified. (LibAdm.Update ServicesFile)<br/>GenEnvNT)<br/>. Server) on x3erpv12vm ok. (LibAdm.Create SqlOdbc)<br/>in to port 50012 OK</th></td<> | VX3ERPV12VM Sage SharedDak<br>V 50012Aco: File not modified. (LibAdm.Update ServicesFile)<br>GenEnvNT)<br>. Server) on x3erpv12vm ok. (LibAdm.Create SqlOdbc)<br>in to port 50012 OK |

This process will create the symbolic links as needed.

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Re-install secondary Runtimes as MAIN

Install Main Runtime (Server X3SECOND)

Launch "runtime-93.3.45.jar" from directory "T:\Software\Patch27\Runtime\_93.3.45"

| IzPack - Installation of Sage Safe X3 Runtime Component                              | - • ×                             |
|--|-----------------------------------|
| sage   | Installation Type<br>Step 4 of 11 |
|  |                                   |
| Please choose the type of installation:     New Installation     Modify installation |                                   |
|  |                                   |
|  |                                   |
| (Made with IsPack - http://topack.org/)  | Previous Next Quit                |
| 💮 IzPack - Installation of Sage Safe X3 Runtime Component                            | - 🗆 X                             |
| sage   | User Data<br>Step 5 of 11         |
| Component Name   |                                   |
| Component name X3ERPV12<br>Please select runtime type                                |                                   |
| Process server     Test processing engine  |                                   |
|  |                                   |
|  |                                   |
| (Made with IzPack - http://izpack.org/)  | Previous Next Quit                |
|  |                                   |
| W IsPack - Installation of Sage Safe X3 Runtime Component                            | - U X                             |
| Saye   | Target Path<br>Step 6 of 11       |
|  |                                   |
|  |                                   |
| Select the installation path:<br>D: \Sage\X3ERPV12\Runtime                           | Browse                            |
|  |                                   |
|  |                                   |
| (made with torred) - http://lipedk.org/)   | Previous Next Quit                |
| Message X  |                                   |
| The target directory will be created:  |                                   |
| D:\Sage\X3ERPV12\runtime   |                                   |
| OK Cancel  |                                   |

NOTE: This MUST match the first MAIN installation path. i.e. all MAIN runtime servers must have the same disk drive letters and directory structure

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| boood of the series of the ser   | IzPack - Installation of Sage Safe X3 Runtime Component                        | – 🗆 🗙                                       |
|--|--|---|
| netalation wil proceed with the following settings. Press Next to continue.<br>Installation Type<br>Way statistics<br>Service rations<br>Service fully and the following settings. Press Next to continue.<br>Composition do type-MAIN<br>Composition do type-MAIN<br>Composition do type-MAIN<br>Composition following settings.<br>The Service fills for Windows X64<br>Safe X3 Runtime Service fills for Windows X64<br>Et al fills<br>Previous Next Quit<br>Previous Next Quit<br>Previous Next Quit<br>Previous Next Quit<br>Previous Next Quit<br>Previous Service fills for Windows X64<br>Et al fills<br>Previous Next Quit<br>Previous Next Previous Next Quit<br>Previous Next Qui                 | sage   | Summary Configuration Data<br>Step 8 of 11  |
| Initiality Type         Sore reariable         Component loade hype-VALY         Component loade hype-VALY         Sore reariable         Disgue Starter STATE         Sore Starter Starter Starter         Sore Starter Starter Starter         Sore Starter Starter Starter         Operation Starter Starter         Sore Starter Starter         Operation Starter Starter         Sore Starter Starter         Operation Starter  | Installation will proceed with the following settings. Press Next to continue. |   |
| Surfice state state with WERK-May Report and known with WERK-M   | Installation Type  |   |
| component.node.trante-VSRPV12<br>component.node type-MAIN<br>component.node type-MAIN<br>D. Sage XSRPV12 Rumime<br>Description of the State State<br>State Stat Rumime Service files for Windows X64<br>Eain files         Mede with ILPBat - http://tgaek.org/       Previous       Quit         Mede with ILPBat - http://tgaek.org/       Quit       Quit         Desce:       State State State<br>State State State State State<br>State State State State State<br>State State State State State State<br>State State State State State State State<br>State State State State State State State<br>State State State State State State<br>State State State State State<br>State State State State State State State State<br>State State State State State State State State State State<br>State State Stat   | Service creation   |   |
| component.nde. type=MAIN<br>component.nde. type=MAIN<br>itribution PAU<br>Safe X3 Runtime Safe files for Windows X64<br>Edu files<br>Mete with Lifest - Map //ageak.org)<br>Previous Next<br>Perform External Processes<br>Step 10 of 11<br>Processing<br>2/2  | component.node.name=X3ERPV12   |   |
| orespont note type-AND<br><b>TextIation PdX</b><br>Safe X3 Runtine Base files for Windows X64<br>Safe X3 Runtime Service files for Windows X64<br>Eak Files<br>Meret with IPscs - May/Inpads org/<br>Previous View Component<br>Previous View Component<br>Previous View Component<br>Processing<br>2/2<br>Meret with UPscs - May/Inpads org/  | component node type=MAIN   |   |
| Installation Path<br>D: Sage SURFVI Jammine<br>Safe X3 Runtime Safe files for Windows X64<br>Safe X3 Runtime Safe files for Windows X64<br>Edit file<br>Made with IIPRA - Map.//apack.org/<br>Previous Next Quit<br>Previous Quit<br>Previous Next Quit<br>Previous Next Quit<br>Previous Quit<br>Previous Quit<br>Previous Next Quit<br>Previous Quit<br>Previous Next Quit<br>Previous | component.node.type=MAIN   |   |
| D. Sage 3SBRV12 Kunten<br>Consent Installation Pecks<br>Sait X3 Kunten Base files for Windows X64<br>But Ris<br>Mete with IIPsks - May //tgask.org/<br>Previous Next Qut<br>Previous Next Qut<br>Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Previous Next Qut<br>Next Qut<br>Next Qut<br>Previous Next Qut<br>Next Qut<br>Previous Next Qut<br>Next Qut<br>Previous Next Qut<br>Next Qut<br>Previous Next Qut<br>Next Qut<br>Next Qut<br>Previous Next Qut<br>Next Qut<br>Previous Next Qut<br>Next Next Next Qut<br>Next Next Next Next Next Next Next Next  | Installation Path  |   |
| Mede with UPask - May //tgank org)   | D:\Sage\X3ERPV12\Runtime<br>Chosen Installation Packs                          |   |
| Safe X3 Runtime Service files for Windows X64<br>Edu files<br>(Made with LPack - Mp./Rgask.org)<br>Previous Next Quit<br>Taback - Installation of Sage Safe X3 Runtime Component – X<br>Perform External Processes<br>Step 10 of 11<br>Processing<br>2/2   | Safe X3 Runtime Base files for Windows X64                                     |   |
| Evan Ties  (Made with LiPack - Mp./Rgeak.org)  Previous Next Quit  Previous Next Quit  Previous Perform External Processes Step 10 of 11  Processing 2/2  Made with LiPack - Mp./Rgeak.org)  | Safe X3 Runtime Service files for Windows X64                                  |   |
| Mede with liPash - http://tipaek.org/<br>Previous Next Out<br>Previous Next Out<br>Previou   | Eula files   |   |
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| Mede with IzPack - Map //Ispack org)       Previous       Next       Quit         Pheck - Installation of Sage Safe X3 Runtime Component       -       X         Saccoss       Perform External Processes<br>Step 10 of 11   |  |   |
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| Market - Installation of Sage Safe XQ Runnings Comparent      X         See Solution       Perform Extremal Processes         State       Processing   |  | Previous Next Quit                          |
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| Perform External Processes<br>Step 10 of 11<br>Processing<br>2/2<br>Mds with UPati-Mag/Ageat.org   | IzPack - Installation of Sage Safe X3 Runtime Component                        | - 🗆 X                                       |
| Perform External Processes<br>Step 10 of 11<br>2/2<br>Mdds with UPs&: Mtg//Iggesk.org/   |  |   |
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Configure runtime in X3 console (Server X3ERPV12VM)

#### Add X3SECOND in runtimes

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| m - X3V12PRTSVR (DEF/<br>m - X3V12ADCSVR   |  |  |  |   |  |  |  |   |  |   |                |  |                          |                 |        |
| m - X3V12JAVSVR  |  |  |  |   |  |  |  |   |  |   |                |  |                          |                 |        |
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Updated: 08/11/2021

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| Search Sage X3   | components  |                              |   |  |   |         |       |
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Select the "x3second" server and add in the required settings:

- ODBC tools path: C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\130\Tools (from dropdown)
- Port number: 50012
- User login: emrun
- Password: <Enter appropriate password>

#### Click "Configuration"

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|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       | Confirm       |  | < _ |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       | 2 c           | onfirm configuration ? X3ERPV12 (MAIN) |     |
|   |             |                  |                            |                     |       |            |       | •             | , , , , , , , , , , , , , , , , , , ,  |     |
|   |             |                  |                            |                     |       | _          | _     |               |  |     |
| Main runtime x3   | second      |                  |                            |                     |       |            |       |               |  |     |
| Parameter   |             |                  | Value                      |                     |       |            |       |               | Yes No                                 |     |
| Allemian  |             |                  | P002 002 0004E             |                     |       |            |       |               |  |     |
| lostalation path  |             |                  | D:\Sage\X3EBPV12           | Buntime             |       |            |       |               |  |     |
| Instatuon (part     D Sage Outputy Your Addition     D DBC tools path     C-Vergram Files Microart SQL Server/Client SDK/ODBC     Sage X3 service pot number     50012     derlogin for this Sage X3 service     emun |             |                  |                            |                     |       |            |       | 130\Tools     |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
| User account par  | ssword      |                  | CRYPT:teueQrtvaXv          | vdoxksn             |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |
|   |             |                  |                            |                     |       |            |       |               |  |     |

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The warning message was due to a previous installation, it has been updated anyway so can ignore this message.

| ¢ <sup>©</sup> Runtin  | ¢ <sup>#</sup> Runtimes |       |         |                  |                     |      |        |   |  |  |  |  |  |  |
|--|-------------------------|-------|---------|------------------|---------------------|------|--------|---|--|--|--|--|--|--|
| ▶<br>Start   | Stop                    | Re    | start   | Connected users  | <b>₽</b><br>Refresh |      | Help   | ,   |  |  |  |  |  |  |
| Name   | Server                  | Port  | Path    |                  | State               | Туре | Status | Technical version   |  |  |  |  |  |  |
| STATES AND A STATE | x3erpv12vm              | 50012 | D:\Sage | X3ERPV12\Runtime | Started             | MAIN | active | Version R093.003.00045 - SHA=cd2e5ed8b7a88a3715770ed230f5a73d2e9e |  |  |  |  |  |  |
| A3ERPV12   | x3second                | 50012 | D:\Sage | X3ERPV12\runtime | Started             | MAIN | active | Version R093.003.00045 - SHA=cd2e5ed8b7a88a3715770ed230f5a73d2e9e |  |  |  |  |  |  |
|  |                         |       |         |                  |                     |      |        |   |  |  |  |  |  |  |
|  |                         |       |         |                  |                     |      |        |   |  |  |  |  |  |  |
|  |                         |       |         |                  |                     |      |        |   |  |  |  |  |  |  |
|  |                         |       |         |                  |                     |      |        |   |  |  |  |  |  |  |
|  |                         |       |         |                  |                     |      |        |   |  |  |  |  |  |  |

Note that both are now MAIN types

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#### Startup Syracuse

#### Login to front end as ADMIN Navigate to Administration, Administration, Endpoints, X3 Solutions

| All > Administration > Administration > Endpoints       |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
|---|------------------------|---------------------------------|------------------|-----------------|---------------|--|-------|--------------------|------------------|----------|---|----|
| X3 solution x3ERPV12                                    |                        |                                 |                  |                 |               |  |       |                    |                  |          |   | A  |
| Information Servers Runtimes                            | Endpoints              |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| Information   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   | ^  |
| Code *  | Descr                  | iption *                        |                  |                 |               | Solution name \star                        |       | Solutio            | n root directory |          |   |    |
| X3ERPV12  | X3 E                   | RP V12 on X3ERPV12VM            |                  |                 | 1             | X3ERPV12                                   |       |                    |                  |          | 7 |    |
| Code  | Friend                 | ly name                         |                  |                 |               | The X3 solution name                       |       |                    |                  |          |   |    |
| Application *   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| X3 ERP  |                        | Q                               |                  |                 |               |  |       |                    |                  |          |   |    |
| Application and contract identify a service             |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
|   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| Servers   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   | ^  |
| Main server host *                                      | Main                   | server port ±                   |                  | Web serve       | r host        |  | Web s | server port        |                  |          |   |    |
| x3erpv12vm  |                        |                                 | 50012            |                 |               |  |       |                    | 8080             |          |   |    |
| Physical server name or IP address for main application | n server The m         | ain application server port     |                  | If different fr | rom "Main se  | rver host"                                 |       |                    |                  |          |   |    |
|   | Certificate            |                                 |                  | -               | Batch Ser     | /er  |       |                    |                  |          |   |    |
| Use Http proxy configuration                            |                        |                                 |                  | C,              | X3ERPV1       | 2  |       |                    |                  |          |   |    |
| RO Familia  | Certificate used for a | authentication on these servers |                  |                 | This is the E | latch Server associated with the X3 Soluti | on    | VTreeM consists UP |                  |          |   |    |
| BO Server   |                        |                                 |                  |                 | Sage X3 CI    | oud Development Platform URL               |       | X TreeM service UR |                  |          |   |    |
| Configure Business Objects concer                       |                        | Enable app                      | nication cluster | d orelies       |               |  |       | nup.//iocainosco   | 240              |          |   |    |
| SOL service   |                        | chaoling the option             | MongoDB service  | o premina       |               |  |       |                    |                  |          |   |    |
| SQL Server V SEED SERVICE                               |                        | 0                               |                  |                 |               |  | 0     |                    |                  |          |   |    |
| Secolocities  |                        | -                               |                  |                 |               |  | ~     |                    |                  |          |   |    |
| Bunkinse  |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| Runumes   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| Runtimes  |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| +   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   | ×* |
| Server host Se  | rver port              | Tags                            | Ta               | ig exclusive    |               | Ban timeout                                | Black | klisted            | Auto config      | Disabled |   |    |
| x3erpv12vm  |                        | 50012 MAIN                      |                  |                 |               |  | 50    |                    | ~                |          |   |    |
| x3second  |                        | 50012 SECOND                    |                  | [               |               |  | 50    | <b>~</b>           | *                |          |   |    |
| X3 runtimes   |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |
| Parallel jobs by runtime during update                  |                        |                                 |                  |                 |               |  |       |                    |                  |          |   |    |

Check the box for "Enable application cluster" Uncheck "Blacklisted" for the "x3second" server SAVE

Copy over PEM files to the X3SECOND server into "..\runtime\keys" directory (Copy these files from the same directory on the "X3ERPV12VM" server)

Stop Syracuse service Restart Runtime services on both servers Start Syracuse service

Navigate to Administration, Administration, Endpoints, X3 Solutions

Login to front end as ADMIN

| Successfully connected to x3erpv12vm:5001   | 12   |                              |   |               |                         |           |   |   |
|---|--|------------------------------|---|---------------|-------------------------|-----------|---|---|
| <ul> <li>Successfully connected to x3second:50012</li> </ul>  |  |                              |   |               |                         |           |   |   |
| Less  |  |                              |   |               |                         |           |   |   |
| nformation  |  |                              |   |               |                         |           |   | ~ |
| ode   | Description                                  |                              | Solution name                           |               | Solution root directory |           |   |   |
| 3EBDV12   | V3 EDD V12 on V3EDDV12VM                     |                              | 1 Y3EDDV12                              |               | solution root directory |           |   |   |
| ode   | Friendly name                                |                              | The X3 solution name                    |               |                         |           |   |   |
| pplication  |  |                              |   |               |                         |           |   |   |
| 13 ERP  | 1  |                              |   |               |                         |           |   |   |
| pplication and contract identify a service  |  |                              |   |               |                         |           |   |   |
|   |  |                              |   |               |                         |           |   |   |
| Servers   |  |                              |   |               |                         |           |   | ^ |
| ain server host   | Main server port                             | Web server host              |   | Web server    | port                    |           |   |   |
| Berpv12vm   |  | 50012                        |   |               |                         | 8080      |   |   |
| sysical server name or IP address for main application server   | The main application server port             | If different from "M         | ain server host"                        |               |                         |           |   |   |
| se Http proxy configuration Certific  | cate   | Batch                        | Server                                  |               |                         |           |   |   |
| £   |  | X3ER                         | <u>2V12</u>                             |               | 1                       |           |   |   |
| Certifica   | ate used for authentication on these servers | This is                      | the Batch Server associated with the X3 | Solution      | WTeeneld and a life     |           |   |   |
| o server  |  | n cluster sage               | to cloud Development Platform OF        | ti            | http://decalboot/8240   |           |   |   |
| onfigure Business Objects server  | Enabling this option                         | requires a dedicated prelimi |   |               | http://iocainosci6240   |           |   |   |
| QL service  |  | AongoDB service              |   |               |                         |           |   |   |
| SQL Server VI2 on X3ERPV12VM  | 1  |                              |   |               |                         |           |   |   |
|   |  |                              |   |               |                         |           |   |   |
| luntimes  |  |                              |   |               |                         |           |   | ~ |
| in the second |  |                              |   |               |                         |           |   |   |
| unumes  |  |                              |   |               |                         |           |   |   |
| participant in the second second  |  |                              |   | Principal and |                         | Directory |   |   |
| server port   | 1083   | ing exclusive                | Dan uneour                              | Diacklisted   | Auto coning             | Disabled  |   |   |
| x3erpv12vm  | 50012 MAIN                                   | ×                            |   | 5             | ×                       | ~         | × |   |
|   |  |                              |   |               |                         |           |   |   |

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#### Connect to X3 folder Check can access run any Classic function

From different browser, login as "USR01" user who is configured to connect to X3SECOND by preference and launch classic function

|   | Section Id  | DR Name       | Program        | Logio Name  | EM Herr   | Web Host        | Madule | Function                     | Logio               | Status   | Process 14 | CPII (eecc) | Memory (Kh) | Scheduled time (coor) | Saccion alanced time (co.co) | Last Request Start |
|---|-------------|---------------|----------------|-------------|-----------|-----------------|--------|------------------------------|---------------------|----------|------------|-------------|-------------|-----------------------|------------------------------|--------------------|
| 1 | 5655i01 ld  | DB Ivanie     | rigram         | LIVE        | LICD01    | VYED HOSE       | 1      | Punction<br>D. ACHICENIU(X2) | 27/00/2021 12/E1/12 | alassian | 7150       | CFU (Secs)  | DAETC       | Scheduled time (secs) | Session etapsed time (secs)  | 27/00/2021 12-E1   |
| 2 | 57          | x3eipv12      | sadoss.exe     | LIVE        | UCD01     | X3ERFV12VM      | 1      | R_ACHGEINVA3                 | 27/09/2021 13:51:13 | sleeping | 2152       | 0           | 24376       | 0                     | 0                            | 27/09/2021 13:51   |
| 2 | 53          | x3erpv12      | sadoss.exe     | SEED        | NULL      | ASERF V 12 VIVI | NULL   | GESAUS                       | 27/09/2021 13:31:23 | sleeping | 2102       | 0           | 32760       | 0                     | 0                            | 27/09/2021 13:51   |
| 4 | 54          | x3orpv12      | andose eve     | SEED        | NULL      | NULL            | NULL   | NULL                         | 27/09/2021 13:46:24 | eleeping | 7212       | 0           | 32769       | 0                     | 0                            | 27/09/2021 13:46   |
| 5 | 55          | x3emy12       | eadose exe     | X3          | NULL      | NULL            | NULL   | NULL                         | 27/09/2021 13:49:26 | eleening | 1572       | 0           | 32768       | 0                     | 0                            | 27/09/2021 13:40   |
| 6 | 51          | x3emy12       | sadoss eve     | X3          | NULL      | NULL            | NULL   | NULL                         | 27/09/2021 13:46:09 | sleeping | 7924       | 0           | 24576       | 0                     | 1                            | 27/09/2021 13:51   |
| 7 | 52          | x3emv12       | sadoss exe     | X3          | NULL      | NULL            | NULL   | NULL                         | 27/09/2021 13:46:50 | sleeping | 1040       | 0           | 32768       | 0                     | 0                            | 27/09/2021 13:46   |
| 4 | Process Sen | ver Conne     | ction Type     | How_Many    |           |                 |        |                              |                     |          |            |             |             |                       |                              |                    |
| 2 | X3ERPV12    | VM Webs       | age            | 1           |           |                 |        |                              |                     |          |            |             |             |                       |                              |                    |
| 3 | X3ERPV12    | VM Web        | ervices        | 2           |           |                 |        |                              |                     |          |            |             |             |                       |                              |                    |
| 4 | X3SECOND    | Classi        | c page         | 2           |           |                 |        |                              |                     |          |            |             |             |                       |                              |                    |
| 5 | X3SECOND    | Webp          | age            | 1           |           |                 |        |                              |                     |          |            |             |             |                       |                              |                    |
|   | Syracuse Ho | ost           |                | Connectio   | on Type I | low_Many        |        |                              |                     |          |            |             |             |                       |                              |                    |
| 1 | X3ERPV12\   | √M            |                | Classic p   | age       | 2               |        |                              |                     |          |            |             |             |                       |                              |                    |
| 2 | X3ERPV12    | M             |                | Web pag     | e         | 1               |        |                              |                     |          |            |             |             |                       |                              |                    |
| 3 | X3ERPV12    | VM.eu-west-1  | .compute inten | nal Batch   |           | 1               |        |                              |                     |          |            |             |             |                       |                              |                    |
| 4 | X3ERPV12    | VM.eu-west-1  | .compute.inten | hal Web pag | e         | 1               |        |                              |                     |          |            |             |             |                       |                              |                    |
|   | × 0 10 (10) | 100 outputed. | compute inter  | bal Websen  | 1000      | /               |        |                              |                     |          |            |             |             |                       |                              |                    |

Check has connected using X3SECOND runtime server as expected  ${\tt Im}$ 

Restart batch server and web pools

Re-check and re-test can login from both servers and execute Classic sessions. The load should be balanced across both process servers



## Conclusion

This build diary primarily describes how to convert an existing multiple runtime environment to instead use the Multi-Main runtime setup.

Hopefully this will give you some guidance if you need to perform a similar task.

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