**Replication Pre-Requisites: A How to Guide**

1. **How to create a Local Windows User**

Click on Start > Control Panel > Administrative Tools > Computer Management

In the System Tools area expand Local Users and Groups

Right click on Users and select New User…

 User name: PHXREP

 Full name: PHX Replication User

 Description: PHX Replication User

 Password: F!1GHT!2

 Confirm Password: F!1GHT!2

 Uncheck ‘User must change password at next logon’

 Check User cannot change password

 Check Password never expires

 Click Create button, then the Close button, the ‘new’ User will display in the list

 

Right click on the new user name and choose Properties

In the PHXREP Properties window select the Member Of tab, click Add…

In the Select Groups click Advanced…

In the Select Groups window click Find Now

Highlight Administrators, then click OK

Click OK to close the Select Groups window

Click Apply then OK, to assign the new user to the Administrators Group

Close the Computer Management window.

1. **Create a SQL Server Login**

Click on Start > All Programs > Microsoft SQL Server 2014 > SQL Server 2014 Management Studio

The Connect to Server window will display

 Server Type: Database Engine

 Server name: PHXRACKSRV

 Authentication: SQL Server Authentication

 Login: sa

 Password: F!1GHT!2 click Connect

 

Expand the node PHXRACKSRV > Security > Logins

Right click on Logins and choose New Login..., the Login- New window displays

 Login name: PHXREP

 SQL Server Authentication

 Password: F!1GHT!2

 Confirm Password: F!1GHT!2

 Uncheck ‘Enforce password policy’

 Uncheck ‘Enforce password expiration’

 Uncheck ‘User must change password at next login’

 

 In the Select a page area at the top left select Server Roles

 Select the ‘sysadmin’ checkbox

Click OK to close the Login – New window.

Close the Microsoft SQL Server Management Studio window

1. **Enable SQL Configuration**

Click on Start > All Programs > Microsoft SQL Server 2014 > Configuration Tools > SQL Server 2014

 Configuration Manager

 Expand SQL Native Client 11.0 Configuration(32 bit)

Select Client Protocols

on the right Shared Memory, TCP/IP , Named Pipes, VIA should

 all be enabled. If not, right click on the line and choose Enabled

 Expand SQL Server Network Configuration

 Select Protocols for MSSQLSERVER

 On the right Shared Memory, Named Pipes and TCP/IP should all be enabled.

If not, right click on the line and choose Enabled

 Expand SQL Native Client 11.0 Configuration

 Select Client Protocols

 on the right Shared Memory, TCP/IP , Named Pipes, VIA should

 all be enabled. If not, right click on the line and choose Enabled



1. **Windows Firewall Exception of SQL Server**

Click on Start > Control Panel > Windows Firewall

Click Advanced Setting on the left

Click Inbound Rules at the top left

Click New Rule… at the top right, the New Inbound Rule Wizard opens

Select the Port radio button, click Next

Ensure the TCP radio button is selected, in the Specific Local Ports field enter 1433, click Next

Ensure the Allow the connection radio button is selected and click Next

Ensure that Domain, Private & Public checkboxes are selected, click Next

Give this new inbound rule the following name SQL Server Port

Click Finish

1. **Create a Shared Folder**

Click on Start > Computer > double click on Local Disk (C:) > select New Folder at the top

Rename the new folder: REP\_FOLDER

Right Click on REP\_FOLDER and choose Properties

Select the Sharing tab, click the Share… button

The File Sharing window will open,

Click in the [empty] dropdown are and select Find People

[Share Folder]

Within the Select Users or Groups window click Advanced…, click on Find Now

Scroll through the list of Users and Groups to locate the PHXREP user, click OK

Click OK to close the Select Users or Groups window

Select the PHX Replication User line and change the Permission Level to Read\Write

then click Share, then Done

Select the Security tab, highlight PHX Replication User and click Edit…

 The Permissions for REP\_FOLDER window opens

 Highlight PHX Replication User and click the checkbox associated with Full Control / Allow

 Click Apply, then OK

 

Click Close to close the REP\_FOLDER Properties window

1. **Install and Configure DBManager2**

Copy the DBManager.exe to the root of the Phoenix folder

Create a Desktop shortcut for DBManager

Click on the DBManager icon to launch the application (it will take a few seconds for it to open)

Click on File > New, the DBManager window opens

Database Manager opens with the Configure > Databases page selected

 Database System Name: Phoenix\_Rep

 Database System Type: Other

 Databases

 Server Name: select the name of the primary Phoenix DB server from the list

 Use Windows Authentication: uncheck this box

 Login: PHXREP

 Password: F!1GHT!2

 Database: select the ‘Phoenix’ database option from the list

 Click on the Tab key – this will create a new line so you can enter the secondary server, use the same setting as above, except for the server name.

 When both servers have been entered click on File > Save

 Save the configuration file at the root of the Phoenix folder as PHX\_DB\_Config.dbsystem

Click on Replication

 Replication Agent Windows Account: PHXREP

 Replication Agent Windows Password: F!1GHT!2

 Working Directory: \\PHXRACKSRV\REP\_FOLDER

 Manitou Customer Activity: Uncheck [All]

 Distributor Location: check Local Distributor

Click File > Save

Click on Manage Replication

You will get a graphic displaying an icon for each server, under each server is a “Make Primary” link. Click this link for the server that is the ‘active’ / primary / Publisher database. The other servers will be configured as ‘backup’ / secondary / Subscription databases. The DBManager utility will take over from there.