appzero
AppZero 5.5SP1 Release Notes

February 14, 2014

What's new in AppZero 5.5SP1

"Pre-Populate" in AppZero Tether Console

AppZero 5.5SP1 adds a "Pre-Populate" option to the AppZero Tether Console. The utilizes the AppZero Application Discovery (PACE) technology to discover applications on the source machine(s) and, via a generated MAPP file, pre-populate the VAA prior to exercising the application to be migrated. By selecting "Pre-populate", the selected applications that have been migrated will now be added to the destination computer's Add/Remove Programs listings. As well, if a maintenance window on the source (when application services on the source can be shutdown) is not possible; the migration can be delayed until later and completed using the AppZero Administration Console.

What's new in AppZero 5.5GA

AppZero Tether Console

AppZero Tether Console is a simple interface that guides users through the AppZero process of migrating applications from source server to destination.

Improved support for IIS migrations

Users can now migrate IIS configurations and data from IIS 5.0, IIS 6.0, IIS 7.0 and IIS 7.5 to a destination that is the same or higher IIS version, up to IIS 8.0. All the IIS version support as far back as Windows 2000 can be modernized directly to Windows Server 2012 with IIS 8.0.

IIS - Roles / Features Synchronizations without connection to the original source for the purpose of Staged Migrations (migrations from a source to an intermediate server before moving the completed VAA to a final destination).

Web Deployment Agent Service can be by-passed through the use of a simple change in the VAA's IIS migration configuration file.

Support for Windows 2012R2

AppZero now supports migrations to Windows 8 and Windows Server 2012 and Windows 8.1 and Windows Server 2012R2.

Application Discovery (PACE) Enhancements

AppZero Application Discovery (PACE) is used to discover applications on the source machine(s) and, via the generated MAPP file, create a VAA during AppZero Migration. In AppZero 5.5, selected applications that have been migrated will now be added to the destination computer's Add/Remove Programs listings.

appzprecheck

Performs a basic check of connectivity and AppZero migration readiness, including port status, operating system and .NET framework up-level migration viability, Web Deploy availability for IIS migrations, LAN Manager authentication levels, and the status of Antivirus software.

COTF Enhancements

- Wildcard support in config-on-the-fly search targets.
- The standard config-on-the-fly will execute the basic hostname search and replace against all registry entries and files.
- A new [EXCLUDE] option for Search and replace targets allows optimization of the standard COTF behaviour.
- AppZero Admin Console Tether options now ensure the VAA properties are up-to-date.
- All VAAs include the StandardCOTF.xml file in the scripts folder, including those created via PACE.
- Sample Config-on-the-fly files with recommended re-configurations for selected applications are now included in the AppZero EXTRAS folder.

Tether Call back

If AppZero migration cannot tether a file that is locked on the source, it will retry to copy the file until the copy is successful.

Issues Resolved in 5.5SP1

10143 TetherConsole – rather than relying on reverse DNS IP lookups to obtain COTF hostname, Tether Console now queries the hostname directly from the source

10126 Migrated IIS service NetTcpActivator could not be started on destination server after VAA was undocked

AppZero Migration attempted to start this service unnecessarily. If the IIS application needs this service, it will be started automatically.

10089 Additional logging added to identify connection issues to source servers

10251 Virtual drives not identified during migration using COTF

When the source server does not have a 'c:' drive, virtual drives on the destination were not being created.

10224 Default Web Site disabled after IIS migration from Windows 2000 to Windows 2012

Issue is resolved in 5.5SP1. Also, instructions on doing IIS migrations involving HTTPS(SSL) are now included in the online documentation. See **Migrating an IIS Web Site that Uses HTTPS (SSL)**

Known Issues in 5.5SP1

10325 Alfresco Migration: TetherGui message; "Unable to undock vaa: Failed to load account mapping information." on attempt to Finish Tether process

An invalid error message is returned. The Alfresco is functional. The vaa fails to undock but then after a period of time undocks. STOP the services before selecting "FINISH TETHER" and the error will not occur.

10312 Bypass Role and Feature sync for IIS migrations (CLI)

This must be done manually on the command line using AppZero CLI tools:

```
>appzmigrate IP Administrator password c:\appliances\<VAA> /L IIS
Rewrite_Module PHP Authentication AspDotNetMigration ASP.NET
```

10262 PACE fails to pick all essential Remote Groups which have no users

Applications such as DB2 and SQL Server may have groups, e.g. DB2USERS, which are required but which may not have users assigned to them. PACE will not pre-select these groups and import them, therefore they must be selected manually in the Tether Console Remote Accounts tab.

10151 "Http Error 404.17 - not found" error during IIS application Migration to windows 2012

This can be resolved as follows:

1. start inetmgr (in VAA context)
2. open the application pool that services your application
3. set the application pool to match the version on the source

10139/10138: http error 503 when migrating sugarCRM from Windows 2008R2 source

In AppZero 5.5, the URL Rewrite Module may be required for successful migration.

Migration from a Windows 2008 Server or higher source machine: If the rewrite module is installed on the source it will also be required on the destination. You can confirm that the rewrite module is installed on the source by finding the entry "IIS URL Rewrite Module 2" in Programs and features.

Migration from a Windows 2003 Server: there is no easy way to see if the rewrite module is required. The rewrite module should always be installed on the destination.

The Rewrite module can be found at the following address:
http://www.microsoft.com/en-ca/download/details.aspx?id=7435

10112 http error 500.19 with SugarCRM

There are two workarounds: If the URL rewrite module isn't installed on the destination, manually remove all reference to the rewrite module in the web.config files:

Go to
`c:\appliances\sugarcrm\cstore_C\inetpub\wwwroot\sugarcrm\web.config`

And remove everything related to <rewrite>

OR, we install the URL Rewrite module:

1. make sure your VAA is undocked
2. Install the URL rewrite extension for IIS
http://www.iis.net/download/URLRewrite

10096 – AppZero 5.5 caveats for support of Add/Remove Programs

In the x86->x64 case, an application will uninstall successfully when the following conditions are met:
1) Installation folder has been moved from "Program Files" to "Program Files (x86)"
2) Paths under HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\ Windows\ CurrentVersion\Uninstall\[APPLICATION]" have been changed from "Program Files" to "Program Files (x86)"
AppZero Dissolve will redirect the Uninstall key into the Wow6432Node location seen above. Windows expects the paths in Uninstall subkeys to be exact. However, the application uninstaller itself is a 32 bit application, and will therefore be redirected once it is found and executed. Since the files exist under 'Program Files' instead of 'Program Files (x86)', they cannot be located by the uninstaller, and the process is not successful.

10092 Crystal Reports does not launch

During the migration, *C:\Program Files\Common Files* is moved to *C:\Program Files (x86)\Common Files*

This occurs on the first dock after the files have been tethered, i.e. after the first attempt to exercise the application succeeds. Because the path is in tethered_paths.dat, the files will not be retrieved from the source again. However, the application cannot locate them, and the operation fails.

As a workaround, if the path

C:\program files\common files\crystal decisions\2.0\bin

is removed from tethered_paths.dat before the VAA is docked again, then a second copy of the files will be saved to the VAA, and the use case will be successful.

Contact AppZero Support for assistance with Crystal Reports migrations.

10030 AppZero Controller Service Failure during product upgrade

In actuality the AppZero Controller Service has successfully restarted after an upgrade and the message can be ignored.

9900 DB2 Migration: The db2cmdadmin fails to launch

To ensure a successful migration, the DB2_COTF.xml file provided in AppZero\EXTRAS should be used rather than the StandardCOTF.xml

9432 DB2 primary service "DB2-0" starts and then stops, and the monitoring service "kudcma_DB2" fails to start during migration

DB2 Applications must be Dissolved after the AppZero migration is complete, including database re-hosting. Once the application is dissolved to the destination server, all DB2 services will start and the application can be executed successfully.

9680 For SQL migration to Windows 2008x86, MsDtsServer service does not start

This issue can be resolved by increasing the ServicesPipeTimeout. In some cases the default will always time out for MsDtsServer regardless of whether or not all the data in the VAA or not.

There are two workarounds that will resolve this issue:
1. Allow MsDtsServer to time out, undock, disable tether, dock, and start MsDtsServer again, or
2. Increase ServicesPipeTimeout, and MsDtsServer will start on the first attempt while tethered. (For example, increase to 180000. You will have to restart the server.)

8999 Some products, or product components, do not appear in the Remote Products tab in the Tether/Admin Console.

For example, Oracle 11g does not appear. Switch to the Remote Services tab. The product's services will appear there.

8707 There is no indication in the Tether Console if the connection to a source server is lost during tether.

However, the following error will be displayed in the tether log file:

```
"2013-05-13 18:34:00:137 [ERRO]t2928:TetherServer::prepareRegService:
cfmu_openRemoteRegRoot[10.244.137.66] failed"
```

Reconnect to the source and continue the tether process.

8844/9049 A secondary drive is required to be on the destination operating system for virtual drives to function properly

A service may fail to start if the service resides on a drive on the source machine (for example, drive F:) and the destination machine doesn't have this drive (for example, it has only drives C: and E:).

To resolve this issue, add the required drive (in this example, drive F:) to the destination machine and start the service.

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