

Server Storage Configuration

Configuration of BackupAgent when using different storage platforms

1. Introduction

BackupAgent supports different types of storage platform to store the user data:

1. Local Storage
 1. Storage Area Network (SAN) via iSCSI or Fiber connection
 2. Direct Attached Storage (DAS) via SATA or SAS connection
2. Network Storage
 1. Network Attached Storage (NAS) via CIFS (SMB 2.1) connection

This document explains how to configure the BackupAgent Server Software for the use of different type of storage platforms. We describe the following scenarios:

1. Local Storage
2. NAS Storage with a BackupAgent user account
3. NAS storage with a Custom user account
4. NAS Storage in an Active Directory situation

Please note that from version 4.X onwards, BackupAgent only supports the “Direct Access” mode for accessing a storage location. Support for “Drive Mapping” mode has ended, as we have seen that the “Direct Access” mode has a better performance in terms of throughput and stability. If your platform is still configured with “Drive Mapping”, please contact our support desk, so they can help you with the “Direct Access” mode configuration.

The scenarios described in this document have been tested and configured in test environments. Please contact our support department if you need any further assistance.

For an overview of the reference architecture, please see the following article:

<https://kb.acronis.com/content/55358>

2. Local Storage

When using Local Storage, you probably do not need any authentication to access the storage. If this is the case you can leave all default settings the way they are after installing your BackupAgent server software:

IIS settings

Application pool	User
CloudBackupService	CloudBackupServer
ManagementConsole	CloudBackupServer

Services settings

Service	User
Cloud Backup Active Directory Monitor Service	Local System Account
Cloud Backup Session Management Service	Network Service
Cloud Backup Metadata Management Service	CloudBackupServer
Cloud Backup Maintenance Service	CloudBackupServer
Cloud Backup Processing Service	CloudBackupServer

Settings BackupAgent server configuration files:

Configuration file	Setting	User
C:\Program Files\BackupAgent Server\MaintenanceService\Config.xml	<Username>	CloudBackupServer
C:\Program Files\BackupAgent Server\CloudBackupService\Web.config	<identity impersonate="False">	CloudBackupServer
C:\Program Files\BackupAgent Server\ManagementConsole\Web.config	<identity impersonate="False">	CloudBackupServer
C:\Program Files\BackupAgent Server\MetadataManagementService\MetadataManagementService.exe.config	<Username>	CloudBackupServer

3. NAS Storage with a BackupAgent user account

When using NAS Storage where you can create the user CloudBackupServer with the same password as on the BackupAgent Server, you will need the following settings:

IIS settings

Application pool	User
CloudBackupService	CloudBackupServer
ManagementConsole	CloudBackupServer

Services settings

Service	User
Cloud Backup Active Directory Monitor Service	Local System Account
Cloud Backup Session Management Service	Network Service
Cloud Backup Metadata Management Service	CloudBackupServer
Cloud Backup Maintenance Service	CloudBackupServer
Cloud Backup Processing Service	CloudBackupServer

Settings BackupAgent server configuration files:

Configuration file	Setting	User
C:\Program Files\BackupAgent Server\MaintenanceService\Config.xml	<Username>	CloudBackupServer
C:\Program Files\BackupAgent Server\CloudBackupService\Web.config	<identity impersonate="true">	CloudBackupServer
C:\Program Files\BackupAgent Server\ManagementConsole\Web.config	<identity impersonate="true">	CloudBackupServer
C:\Program Files\BackupAgent Server\MetadataManagementService\MetadataManagementService.exe.config	<Username>	CloudBackupServer

4. NAS Storage with a Custom user account

When using NAS Storage that only accepts a given user, you will need to create this user as a local user on the BackupAgent Server with the same password and set the following credentials:

IIS settings

Application pool	User
CloudBackupService	%ACCESSACCOUNT%
ManagementConsole	%ACCESSACCOUNT%

Services settings

Service	User
Cloud Backup Active Directory Monitor Service	Local System Account
Cloud Backup Session Management Service	Network Service
Cloud Backup Metadata Management Service	%ACCESSACCOUNT%
Cloud Backup Maintenance Service	%ACCESSACCOUNT%
Cloud Backup Processing Service	%ACCESSACCOUNT%

Settings BackupAgent server configuration files:

Configuration file	Setting	User
C:\Program Files\BackupAgent Server\MaintenanceService\Config.xml	<Username>	%ACCESSACCOUNT%
C:\Program Files\BackupAgent Server\CloudBackupService\Web.config	<identity impersonate="False">	CloudBackupServer
C:\Program Files\BackupAgent Server\ManagementConsole\Web.config	<identity impersonate="False">	CloudBackupServer
C:\Program Files\BackupAgent Server\MetadataManagementService\MetadataManagementService.exe.config	<Username>	%ACCESSACCOUNT%

5. NAS Storage in an Active Directory situation

When using NAS Storage in an Active Directory environment (i.e. all devices are AD members) you will to configure the BackupAgent Server and set the following credentials:

IIS settings

Application pool	User
CloudBackupService	%DOMAIN\USERNAME%
ManagementConsole	CloudBackupServer

Services settings

Service	User
Cloud Backup Active Directory Monitor Service	%DOMAIN\USERNAME%
Cloud Backup Session Management Service	%DOMAIN\USERNAME%
Cloud Backup Metadata Management Service	%DOMAIN\USERNAME%
Cloud Backup Maintenance Service	%DOMAIN\USERNAME%
Cloud Backup Processing Service	%DOMAIN\USERNAME%

Settings BackupAgent server configuration files:

Configuration file	Setting	User
C:\Program Files\BackupAgent Server\MaintenanceService\Config.xml	<Username>	%DOMAIN\USERNAME%
C:\Program Files\BackupAgent Server\CloudBackupService\Web.config	<identity impersonate="" False">	CloudBackupServer
C:\Program Files\BackupAgent Server\ManagementConsole\Web.config	<identity impersonate="" False">	CloudBackupServer
C:\Program Files\BackupAgent Server\MetadataManagementService\MetadataManagementService.exe.config	<Username>	%DOMAIN\USERNAME%