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## Azure Cloud Plugin Configuration Guide

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## Azure Cloud Server

This is a guide to the Bocada plug-in for Microsoft Azure Recovery Services (MARS) which is an Azure cloud backup solution.

Bocada also has a plugin for MS System Center DPM, and a plug-in for MS Azure Backup Server (MABS).

This Microsoft documentation will help explain the different types of MS Azure backup offerings:

<https://docs.microsoft.com/en-us/azure/backup/backup-introduction-to-azure-backup>

## Azure Cloud Configuration Checklist

This checklist is an overview of the steps required to configure Azure Cloud Collections on your Bocada Data Collection Server. Detailed instructions are below.

- ☐ Backup data: A Storage Account must be linked to each Recovery Services Vault you wish to collect from
- ☐ Inventory Data: You will need Tenant Id, Subscription Id, Client Id, Client Secret

## Supported Collection Types

The plugin, supports the following collection types from Azure Cloud servers:

Collection Type	Supported	Description
Backup	✓	Collects transactional details about backup, duplication and restore jobs. Example metrics include, start times, durations, bytes, files, errors etc. This includes In Progress jobs.
Storage	✓	Collects point-in-time inventory information. Example metrics include, total recoverable gigabytes (storage), media volume count, media volume status, etc.
Policy		Collects and stores information on policy attributes, schedules, storage units, storage groups, storage lifecycle policies, and clients.
In Progress		Collects basic information on backups that are running or have completed since the previous full Backup jobs data collection. These updates are included in the Backup updates, but are lightweight and can be scheduled more often than backup updates if needed.

## Data Sources

The plugin relies on two different Azure Cloud data sources.

### Backup Data

A [Storage Account](#) associated with a [Azure Cloud Recovery Services Vault](#) for backup is required to collect snapshot information.

### Inventory Data

Inventory data enables Bocada to determine the inventory within Azure to identify unprotected resources and requires access through the Azure REST API, using App Registration credentials.

## Requirements

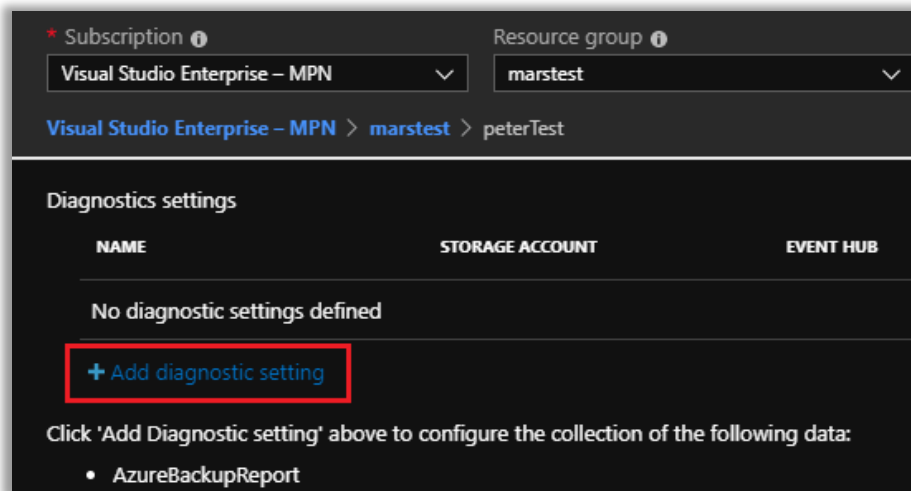
This section lists requirements that must be met before collecting data with the Bocada plugin for Azure Cloud.

### Backup data: Storage Accounts

Each Recovery Services Vault you wish to collect from has an associated/attached Storage Account. To determine the Storage Account for the Recovery Services Vault open the Azure Portal.

### Configure Diagnostic Settings

1. choose + Add diagnostic setting:



2. Name the diagnostic, choose a storage account for archive. Check the box to LOG AzureBackupReport.

**Diagnostics settings**

Save Discard Delete

You'll be charged normal data rates for storage and transactions when you send diagnostics to a storage account.

**\* Name**

**Diagnostic Name** ✓

☒ Archive to a storage account

Storage account  
**marstest1** >

☐ Stream to an event hub

☐ Send to Log Analytics

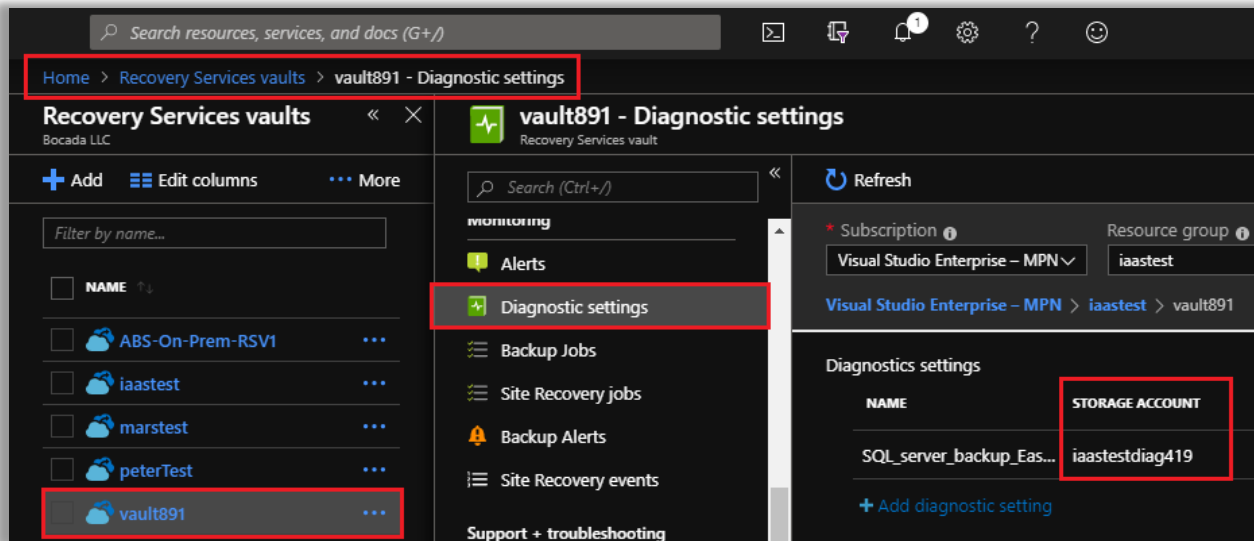
**LOG**

☒ AzureBackupReport Retention (days) ⓘ 14

When you configure the Azure Diagnostic Settings it will not populate with backup records from the past.

### After Diagnostic Settings are configured

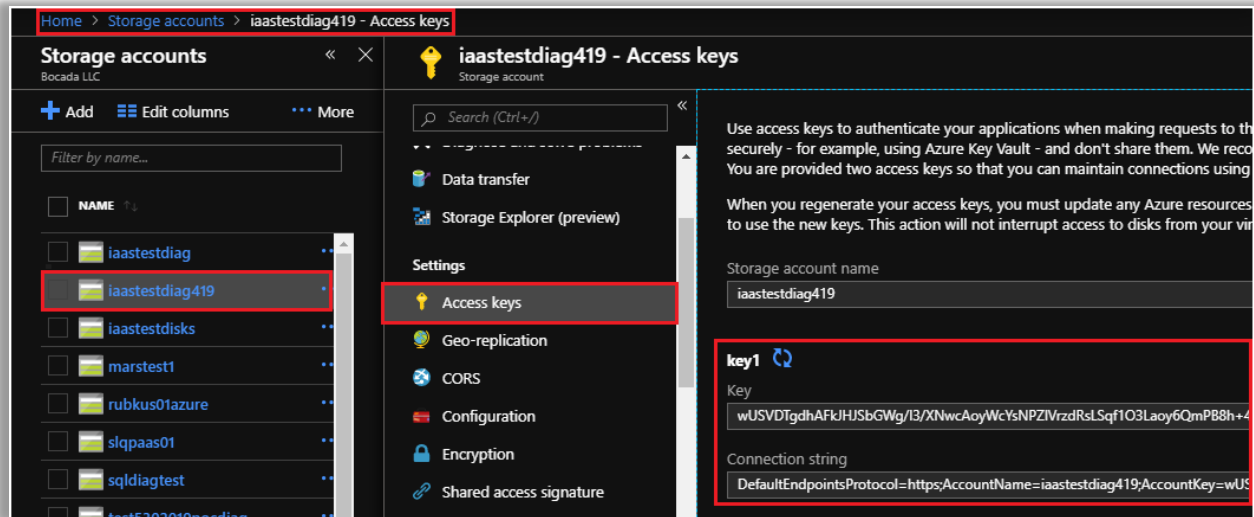
Navigate to *Recovery Services Vaults*, choose the vault of interest, choose *Diagnostic settings*:



### Backup data: Access keys

On the Azure Portal, navigate to the selected the Storage Account and copy Access keys (under Settings).

Navigate to Storage accounts, choose the storage account of interest, choose Access Keys:

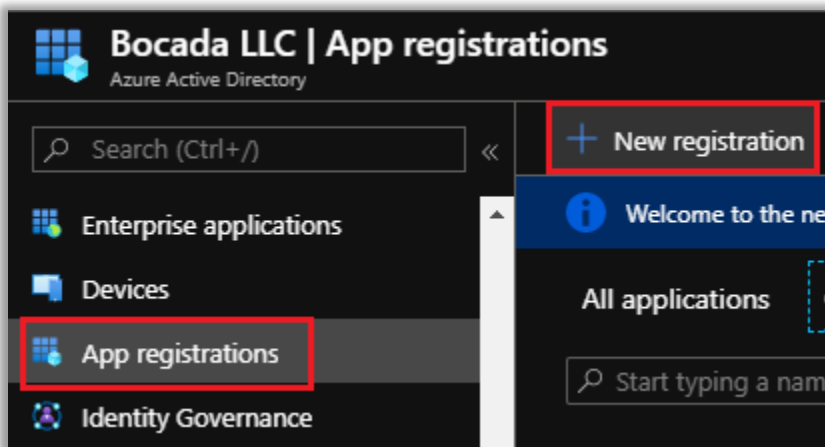
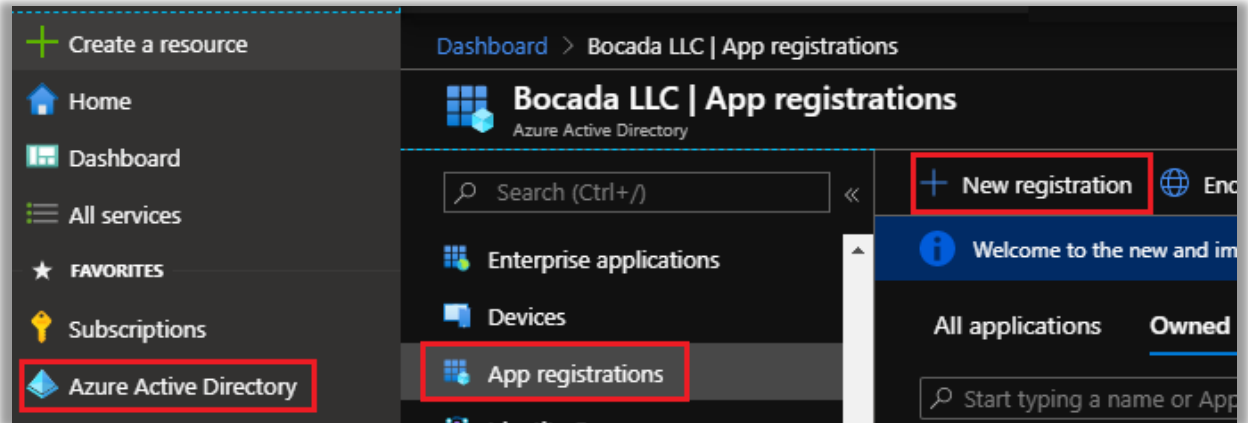


## Inventory: Azure API

### *Tenant ID, Client Id, & Client Secret*

To obtain the needed properties, create a New App Registration:

1. Navigate to Azure Active Directory, then App Registration to add a new registration.



2. Name the new App:

This screenshot shows the 'Name' field in the Azure portal app registration form. The field is labeled '\* Name' and has a description: 'The user-facing display name for this application (this can be changed later)'. The text 'BocadaCollection' is entered into the field, and a green checkmark is visible on the right side of the input box.

3. Choose the Supported Account Type:

This screenshot shows the 'Supported account types' section in the Azure portal app registration form. The question 'Who can use this application or access this API?' is displayed. There are three radio button options: 'Accounts in this organizational directory only (Bocada LLC only - Single tenant)' (which is selected), 'Accounts in any organizational directory (Any Azure AD directory - Multitenant)', and 'Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)'. A link 'Help me choose...' is located at the bottom of the section.

4. Do not set the Redirect URI:

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Web

5. Register:

[By proceeding, you agree to the Microsoft Platform Policies](#)

Register

6. Note the **Client ID** and **Tenant ID**:

Dashboard > Bocada LLC | App registrations > BocadaCollection

**BocadaCollection**

Search (Ctrl+/) << Delete Endpoints

Overview Quickstart Integration assistant (preview)

Display name : BocadaCollection

Application (client) ID : 12d9fcb0-6704-467d-92dd-7d3f48bff5b4

Directory (tenant) ID : c4a884a6-9ee3-4d35-a86f-eb8b34c7c8d7

Object ID : 2c3723fc-f493-45a2-b12c-9f818d98f2e0

7. Navigate to Certificates and Secrets, create a New client secret:

Manage

Branding Authentication Certificates & secrets Token configuration API permissions Expose an API

No certificates have been added for this application.

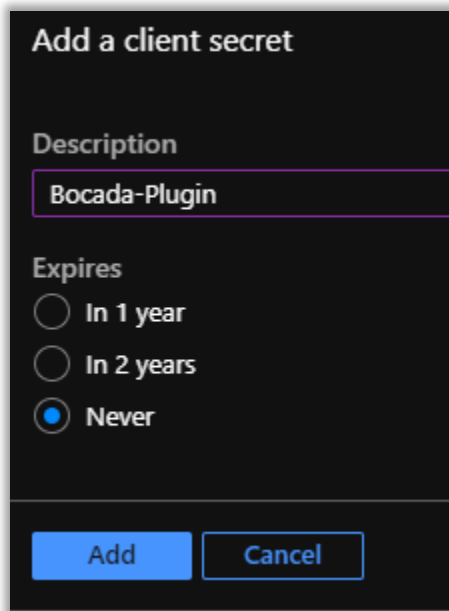
Client secrets

A secret string that the application uses to prove its identity when requesting a token.

+ New client secret

Description	Expires
-------------	---------

8. Enter a description, set expiration to “Never” and Add:



**Add a client secret**

Description

Bocada-Plugin

Expires

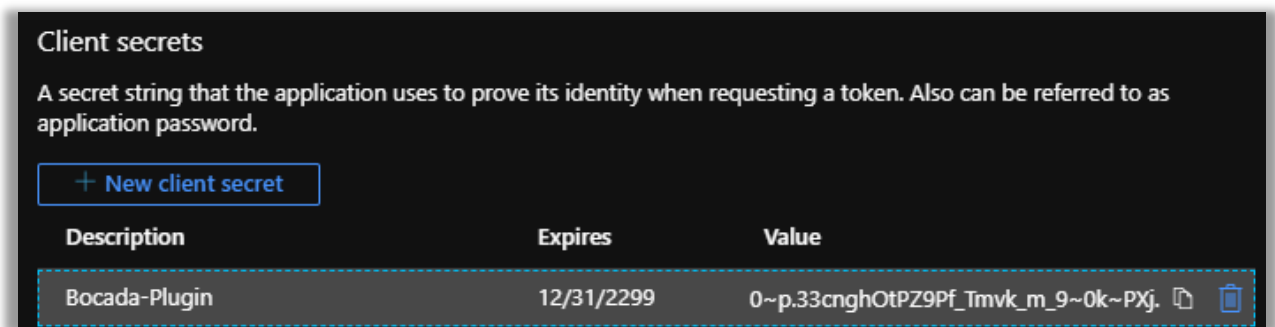
☐ In 1 year

☐ In 2 years

☒ Never

Add Cancel


9. Copy the Value of the **Client Secret**:



**Client secrets**

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value
Bocada-Plugin	12/31/2299	0~p.33cnghOtPZ9Pf_Tmvmk_m_9~0k~PXj. 



## Subscription ID

To obtain the **Subscription ID**:

1. Open the Azure Portal, <https://portal.azure.com>

Navigate to Subscriptions, note the **Subscription ID**

Microsoft Azure

Dashboard > Subscriptions

### Subscriptions

Bocada LLC

+ Add

Showing subscriptions in Bocada LLC. Don't see a subscription? [Switch directories](#)

My role ⓘ

8 selected

Apply

Showing 2 of 2 subscriptions ☐ Show only subscriptions selected in the [global subscriptions filter](#)

Search to filter items...

Subscription name	Subscription ID
Visual Studio Enterprise – MPN	2a2b6867-9493-4918-87dd-

Microsoft Azure

Dashboard > Subscriptions

### Subscriptions

Bocada LLC

+ Add

Showing subscriptions in Bocada LLC. Don't see a subscription? [Switch directories](#)

My role ⓘ

8 selected

Apply

Showing 2 of 2 subscriptions ☐ Show only subscriptions selected in the [global subscriptions filter](#)

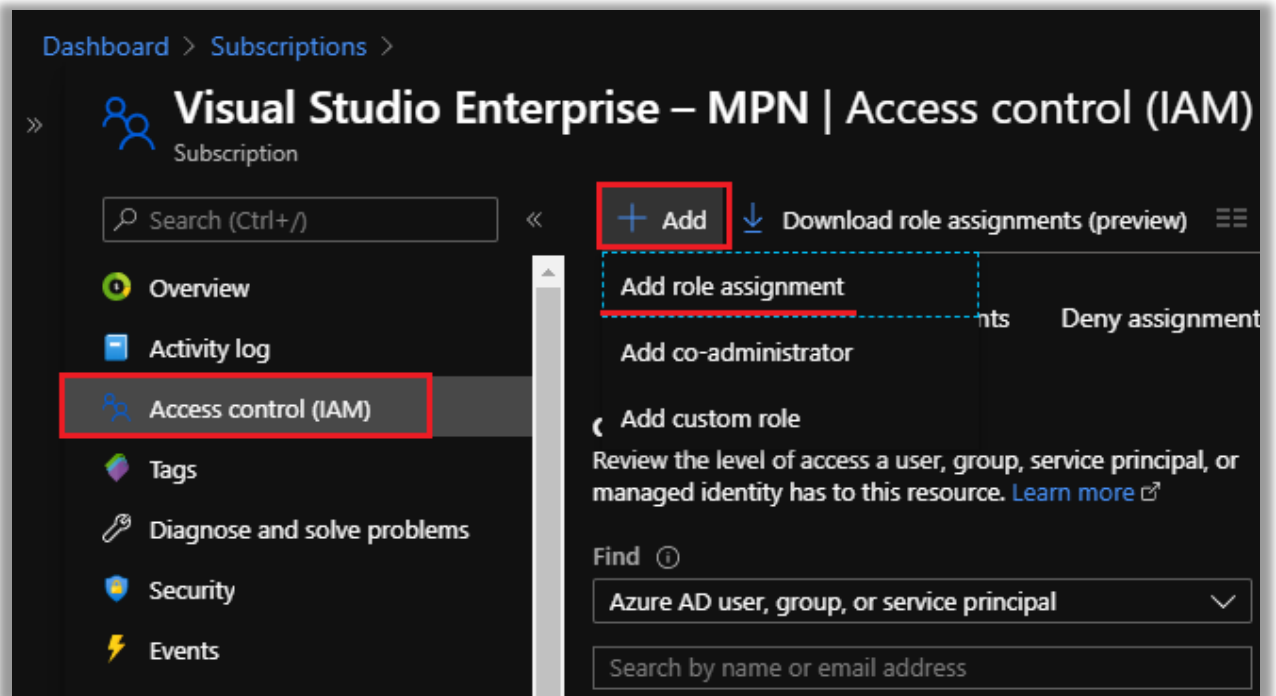
Search to filter items...

Subscription name	Subscription ID
Visual Studio Enterprise – MPN	2a2b6867-9493-4918-87dd-

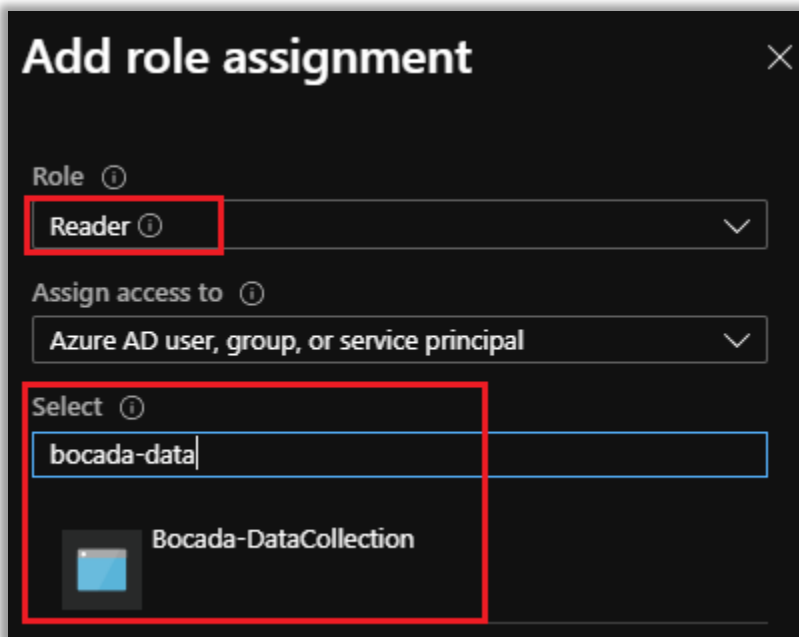
### Assign Role to the Application

To access resources in your subscription, you must assign a role to the application.

1. Click into the relevant subscription, navigate to Access control (IAM), Add role assignment



2. Choose Reader, the appropriate user, and Save:



## Setup

### Server Properties

Backup Server Properties determine how the plugin will interface with the Azure Cloud.

Server names to add: azr-sa-backup

Product for these servers : Azure Cloud

**Configure Server Properties :**

Storage account connection string	DefaultEndpointsProtocol=https;AccountN
Tenant Id	2c3723fc-....-....-.....
Subscription Id	2a2b6867-....-....-.....
Client Id	b7f38c9a....-....-.....
Client Secret	.....
Time Zone	(GMT-08:00) Pacific Time (US & Canada: ▼

Show Advanced Properties:

### Field Definitions

#### *Server name (Not shown in screenshot.)*

Enter your preferred name for the server. The name of the Recovery Services Vault is suggested.

#### *Storage Account Connection String*

Enter the connection string for the Storage Account (obtained from the Storage Account on the Azure Portal).

#### *Tenant Id*

The *Tenant ID* is the Directory ID of the Azure Active Directory that governs access to the resources of the account being inventoried. The Bocada plugin relies on an App registration tied to an Azure AD.

#### *Subscription Id*

The [Subscription ID](#) is the Azure subscription associated with the Active Directory tenant:

#### *Client Id*

The *Client Id* is the ID of an Azure Directory App that will be created for Bocada data collection.

#### *Client Secret*

The *Client Secret* is the key that you assign to the App used for Bocada data collection.

### Time Zone

Select the time zone where Azure Cloud server resides. This setting ensures times are displayed consistently in environments that span multiple time zones (Azure groups by regions, e.g. USWest).

## Reporting Notes

This section offers a few notes about Azure Cloud specific reporting in Bocada.

To report on Azure Vault storage usage see the Bocada Storage Servers report. The “Media Pool” is the Recovery Services Vault. For example

Product	Server	Media Pool	Total Volume Usage (GB)
▼ Product: Azure Cloud [5]			
Azure Cloud	iaatest	iaatest	34.454
Azure Cloud	iaatestdiag419	vault891	73.786
Azure Cloud	marstest1	marstest	1.717
Azure Cloud	marstest1	peterTest	0.000

The Storage Clients report will break it down by client/VM how much is consumed:

Product	Media Pool	Client	Post-Dedupe (GB)	Server	Snapshot Date
▼ Media Pool: iaatest [3]					
Azure Cloud	iaatest	iaatest-2k12r2	10.859	iaatest	2020-05-18 17:00:00
Azure Cloud	iaatest	tl-websphere-api-test	7.128	iaatest	2020-05-18 17:00:00
Azure Cloud	iaatest	win-2012r2-test	16.467	iaatest	2020-05-18 17:00:00
▼ Media Pool: marstest [2]					
Azure Cloud	marstest	tl-dcs-ws06.testlab.com	1.353	marstest1	2020-05-18 17:00:00
Azure Cloud	marstest	tl-mars-wc01.testlab.com	0.364	marstest1	2020-05-18 17:00:00
▼ Media Pool: vault891 [1]					
Azure Cloud	vault891	dev-sql-2014sp3	73.786	iaatestdiag419	2020-05-18 17:00:00

## Troubleshooting

This section will be expanded as useful troubleshooting scenarios are discovered.

### No Data Collected with Warning

Error Message: *No data found on Azure with connection string*

When you first configure the Azure Diagnostic Settings it will not receive backup records from the past. When you do data collection immediately after the configuration, before backups have been run, you may mine no data in Bocada with the following Warning:

No data found on Azure with connection string:...

If you think this might be the cause, then please and try data collection again. Keep in mind that there can be a long delay from when a backup runs to when Microsoft posts the data to the storage group diagnostic, so it is best to wait a day.

## Technical Support

For technical support or a copy of our standard support agreement, please contact us.

**E-mail:** [support@bocada.com](mailto:support@bocada.com)  
**Support Portal:** <https://bocada-support.force.com>  
**Phone:** +1-425-898-2400

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