

Getting Started Guide: CloudBerry Dedup Server V2.0

Getting Started Guide



CloudBerry Lab
cloud storage tools

www.cloudberrylab.com

Getting Started with CloudBerry Dedup Server

We are glad to announce our new product – [CloudBerry Dedup Server](#).

CloudBerry Dedup is a data deduplication software for Windows Server. It is designed to reduce size of your backups by recognizing and storing only one copy of identical blocks across all files.

The program works in conjunction with CloudBerry Backup and processes all the data received from client workstations and servers. After deduplication is completed all data is moved directly to your cloud storage account. It works with multiple cloud based data storage platforms like Amazon Web Services, Microsoft Azure, Google Cloud and any other cloud platform.

Cloudberry Dedup Server integrates seamlessly with your Windows Active Directory and with our complete range of backup solutions. This allows your applications to automatically discover the Cloudberry Dedup Server.

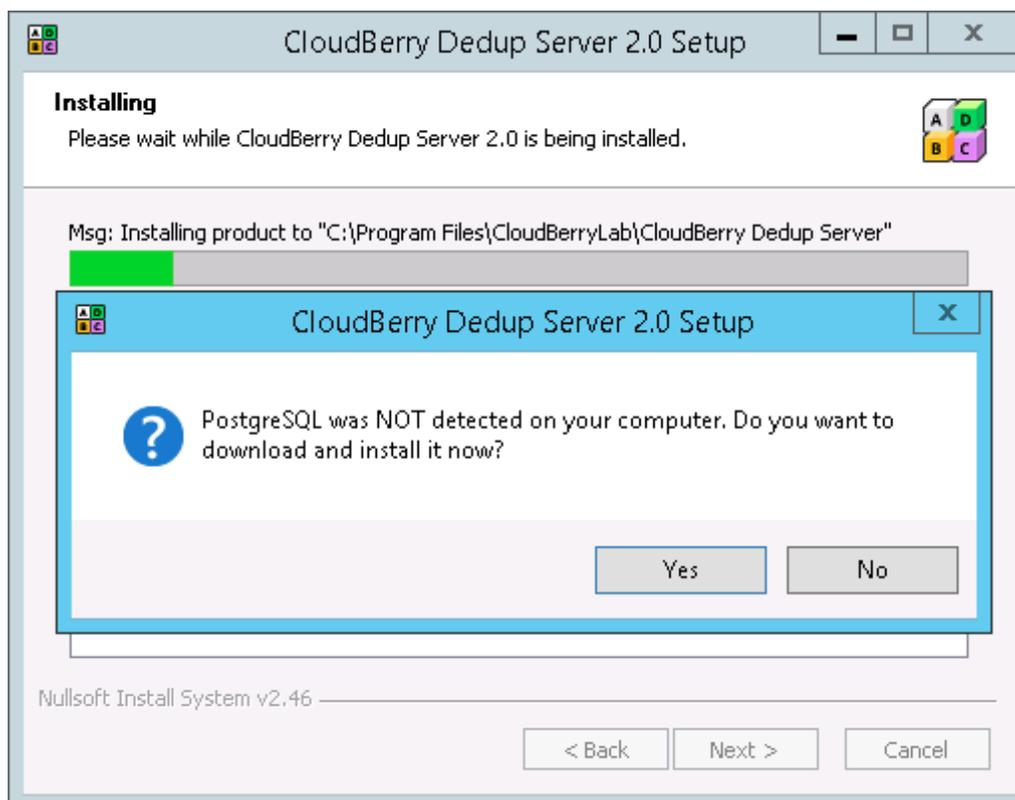
Deduplication brings intelligence to the backup process. It constantly scans data being stored for a block of data that is identical to data that is already in the archive. If it finds a block of data that is 100% identical to a block of existing data, then the new block is discarded and a reference to identical data already stored is used instead.

In a typical business environment, good deduplication can reduce storage volume requirements by about 80% to 90%. These are very significant savings.



How to Setup Dedup Server

Install CloudBerry Dedup Server following the installation wizard steps. You will be prompted to set up PostgreSQL database during the installation:



When the installation completed, launch CloudBerry Dedup Server. We always recommend to **start with a trial (15 days) to evaluate the product** at first (you are required to enter your email to continue with a trial):



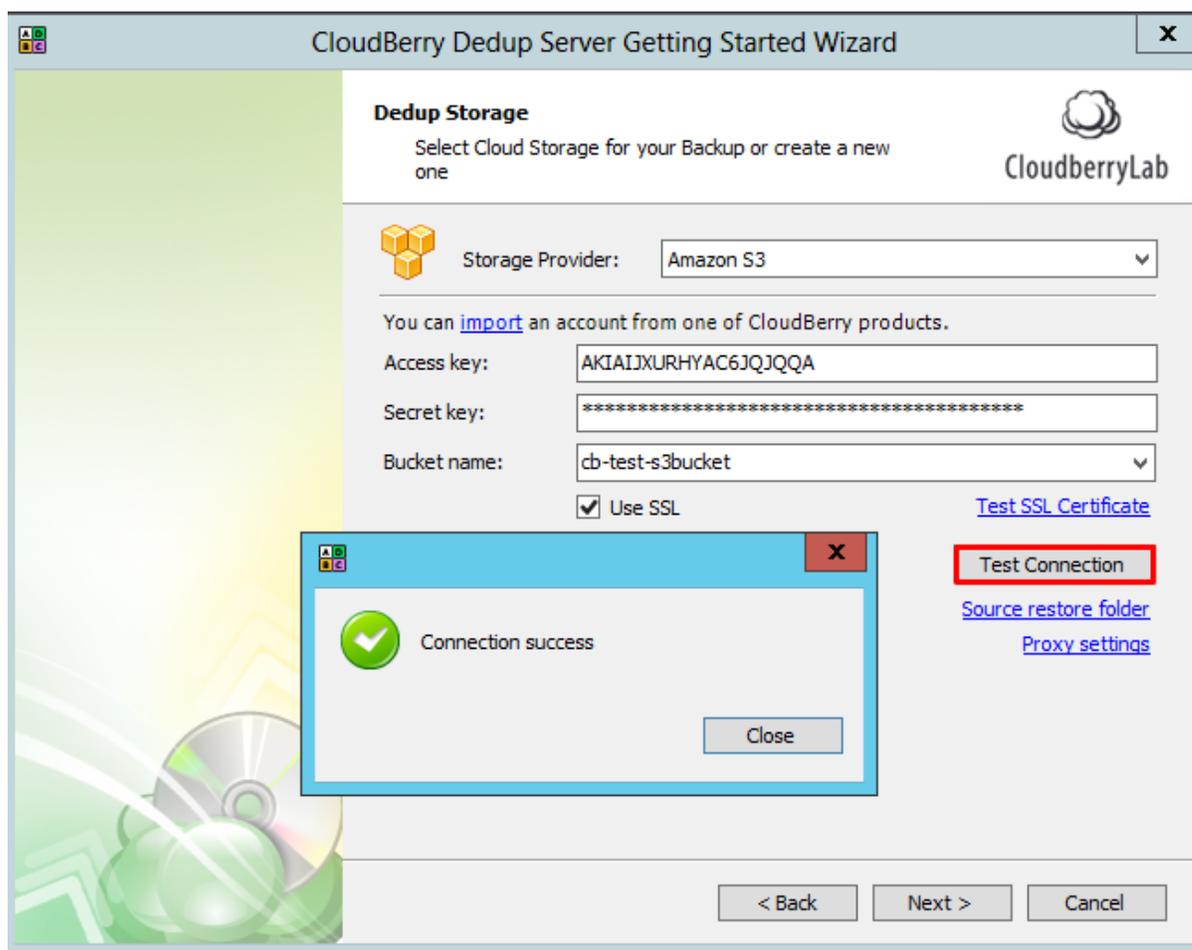
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The next step is to configure the Dedup Server - **Getting Started Wizard** will help you to set initial setting for your Dedup Server:

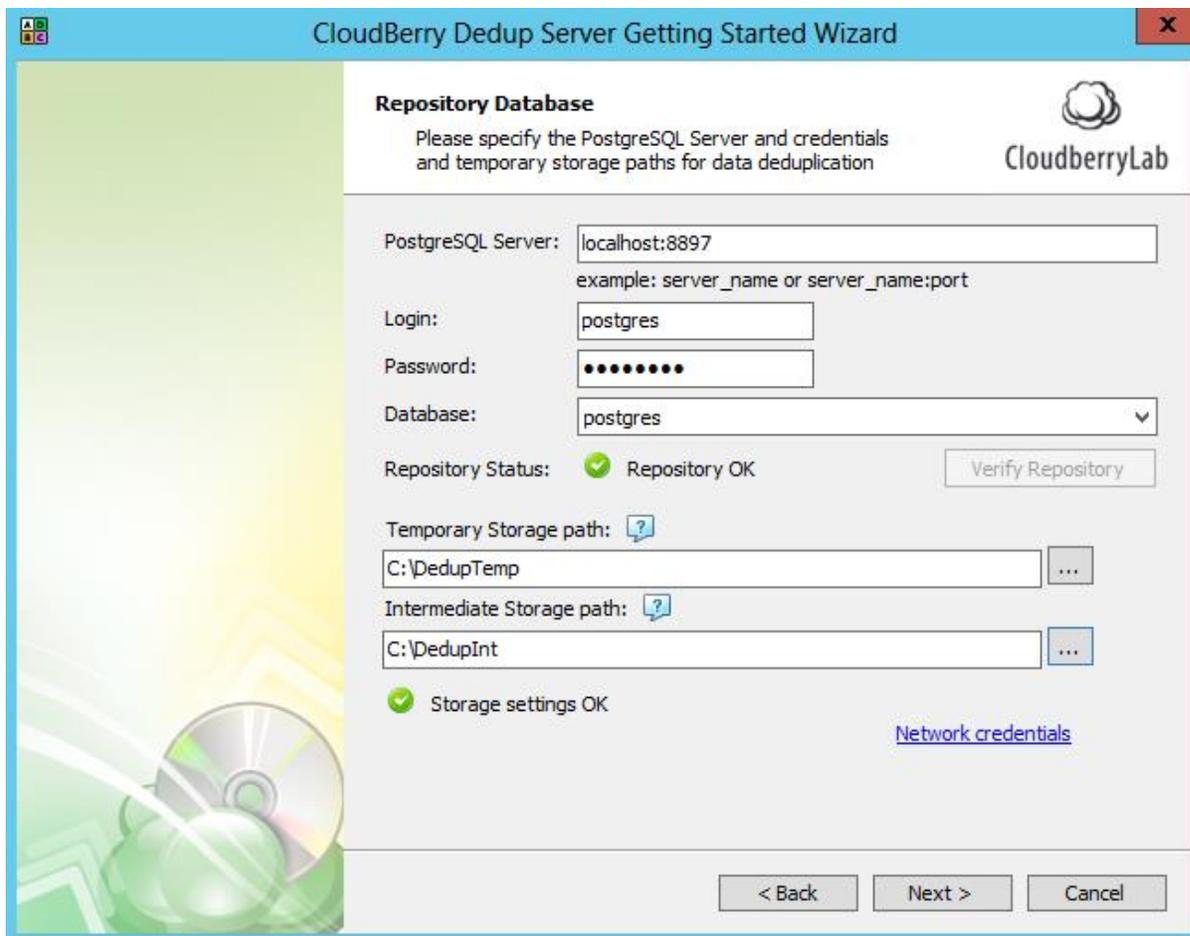


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- The first thing you need to do is specify **Storage Account** (Amazon S3, Microsoft Azure, Google Cloud etc.) – the place where your deduped backup will be stored. Enter your credential and then press Test Connection button. If everything is right, the following confirmation appears:



- On the Wizard's next step you configure **Intermediate** and **Temporary Storage**, and **Repository Database** settings:



The screenshot shows the 'Repository Database' section of the 'CloudBerry Dedup Server Getting Started Wizard'. The window title is 'CloudBerry Dedup Server Getting Started Wizard'. The main heading is 'Repository Database' with a sub-instruction: 'Please specify the PostgreSQL Server and credentials and temporary storage paths for data deduplication'. The CloudBerryLab logo is in the top right corner. The form contains the following fields and controls:

- PostgreSQL Server: (example: server_name or server_name:port)
- Login:
- Password:
- Database: (dropdown menu)
- Repository Status: Repository OK (Verify Repository button)
- Temporary Storage path: (help icon, browse button)
- Intermediate Storage path: (help icon, browse button)
- Storage settings OK: (Network credentials link)

Navigation buttons at the bottom: < Back, Next >, Cancel.

In a **Repository Database** section you may change settings of PostgreSQL Server, which tracks data block duplication within CloudBerry Dedup. It is preconfigured, so you don't have to change anything. Default credentials created by CloudBerry Dedup Server are:

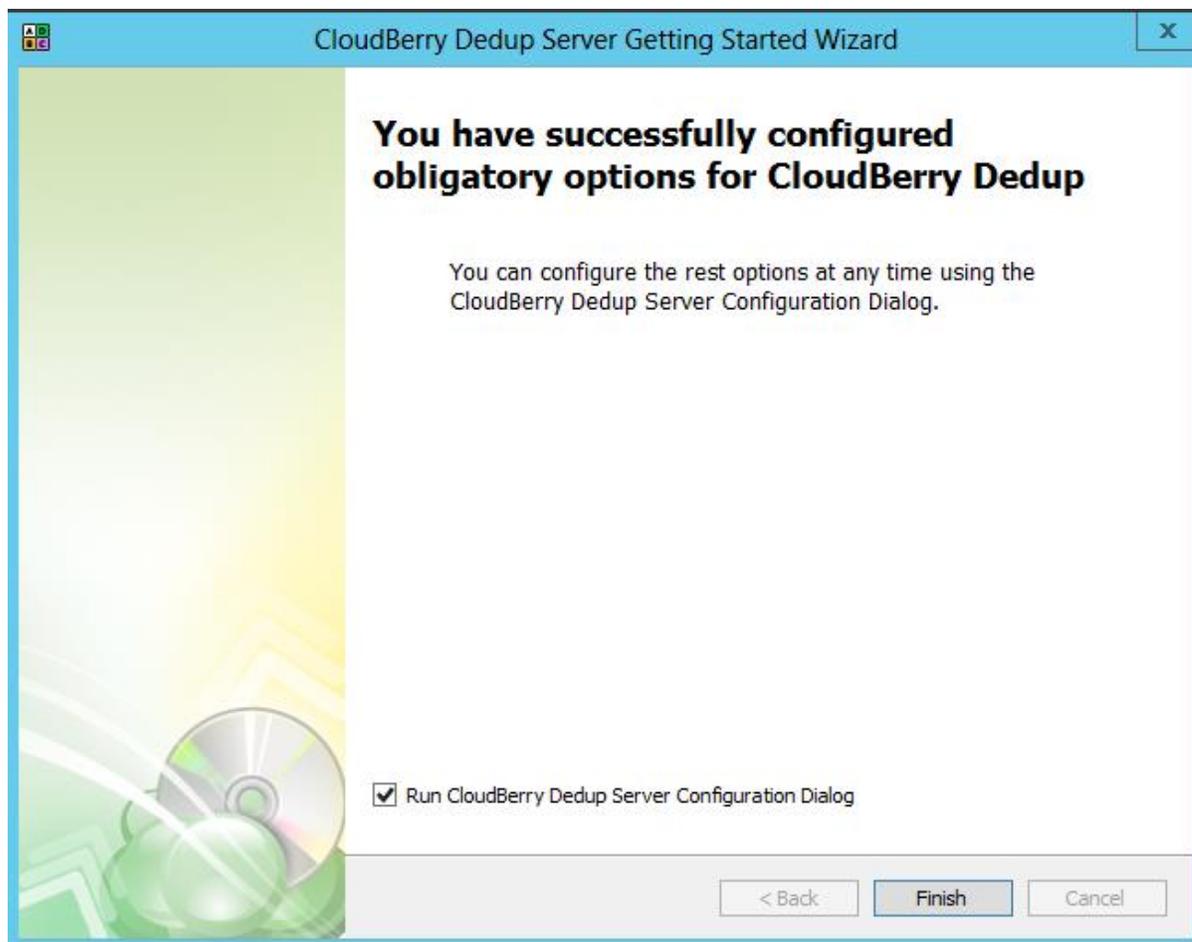
Login = postgres

Password = postgres

Temporary Storage and **Intermediate Storage** are required for working with data blocks prior to send them to the cloud storage. The Temporary storage holds the data before deduplication, the Intermediate — before uploading to the cloud.

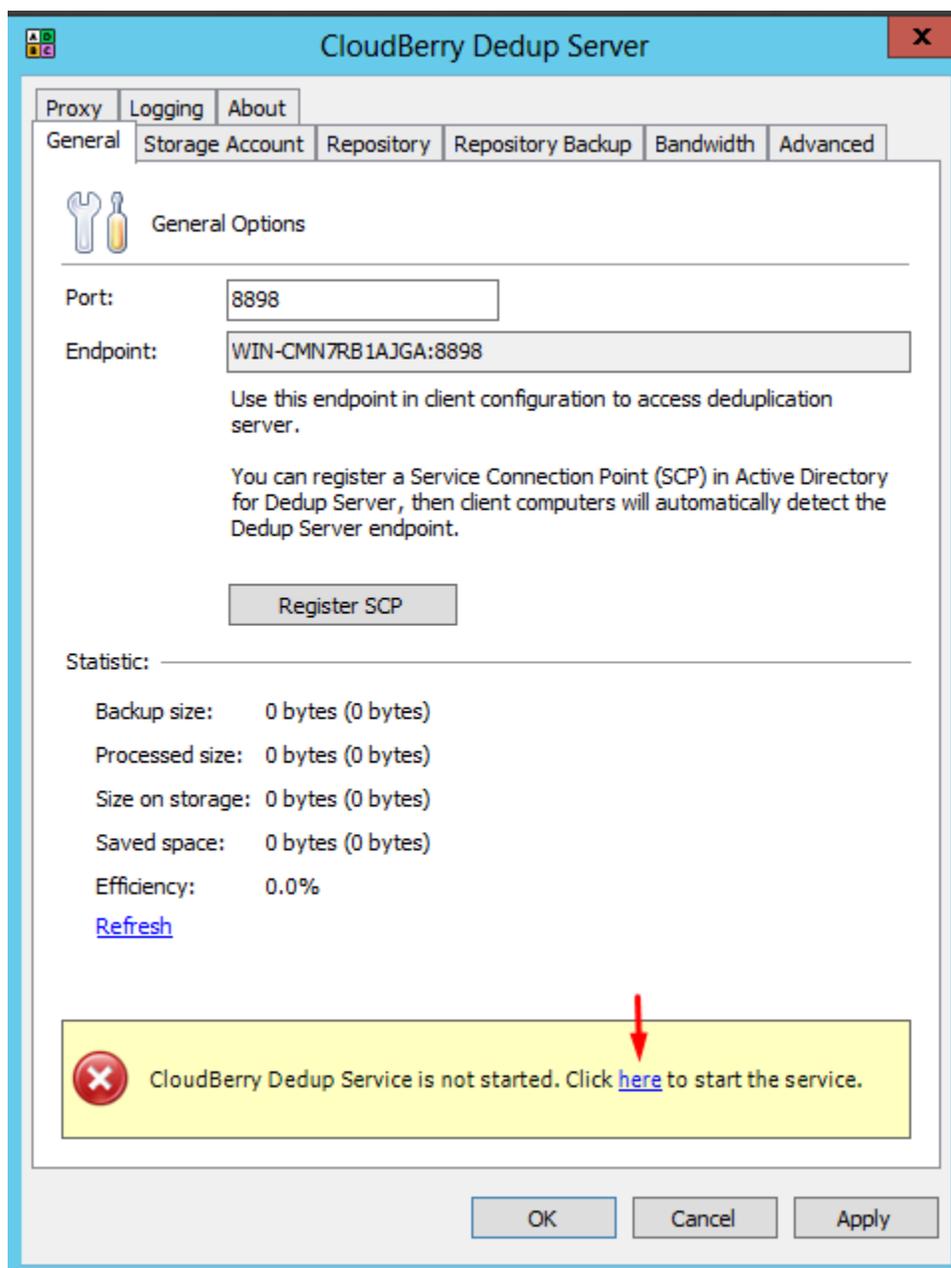
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- Press Next to finish the Wizard — all initial settings are set, you just need to turn Dedup on. Also it may be additionally tweaked. To do both these things, tick Run CloudBerry Dedup Server Configuration Dialog box and press Finish.



Note: you may edit all the Dedup settings at any time using CloudBerry Dedup Server configuration form that you can start from the Windows main menu **Start | CloudBerryLab | CloudBerry Dedup Server | Configure CloudBerry Dedup Server**.

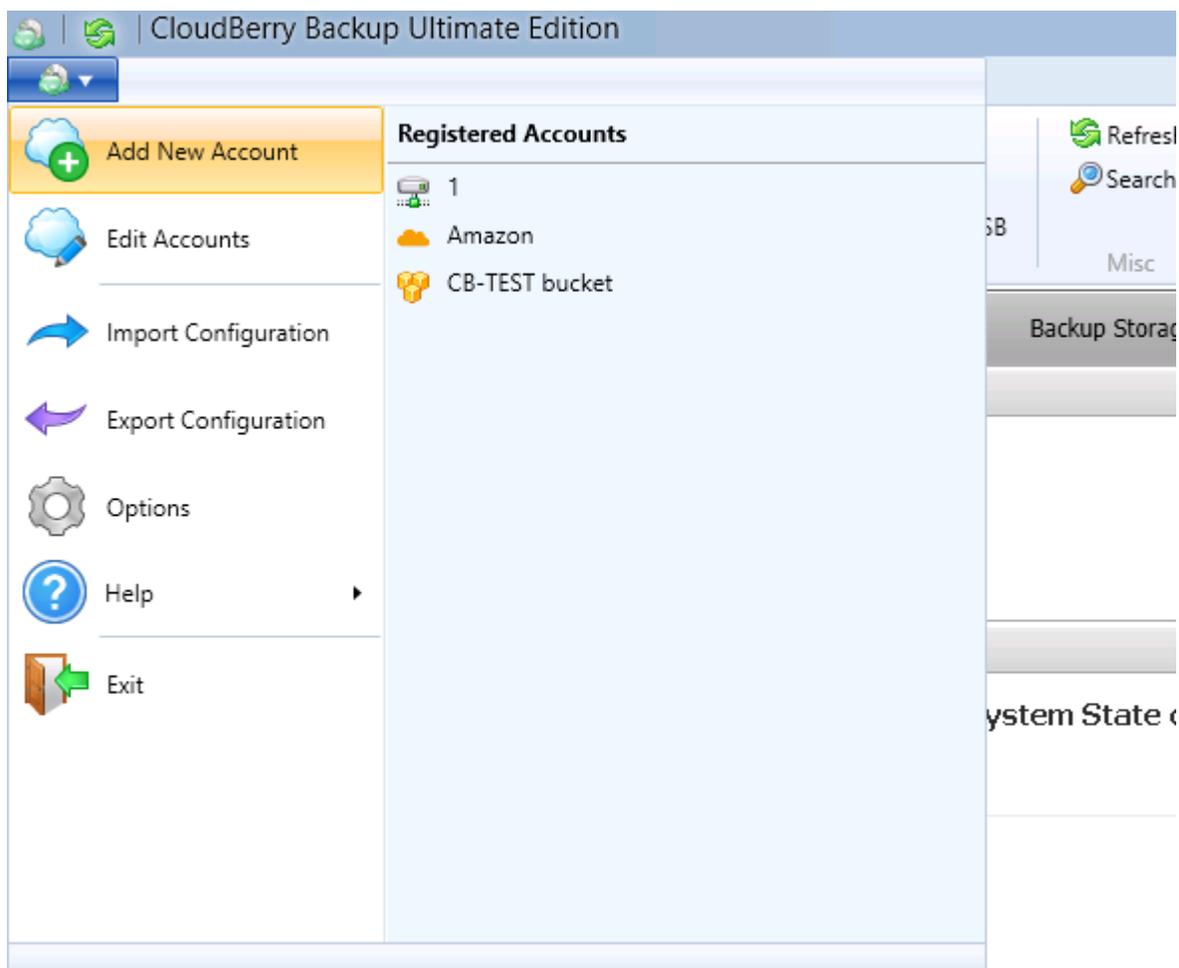
- Start your Dedup Server in the Configuration Menu opened by clicking on the warning block.



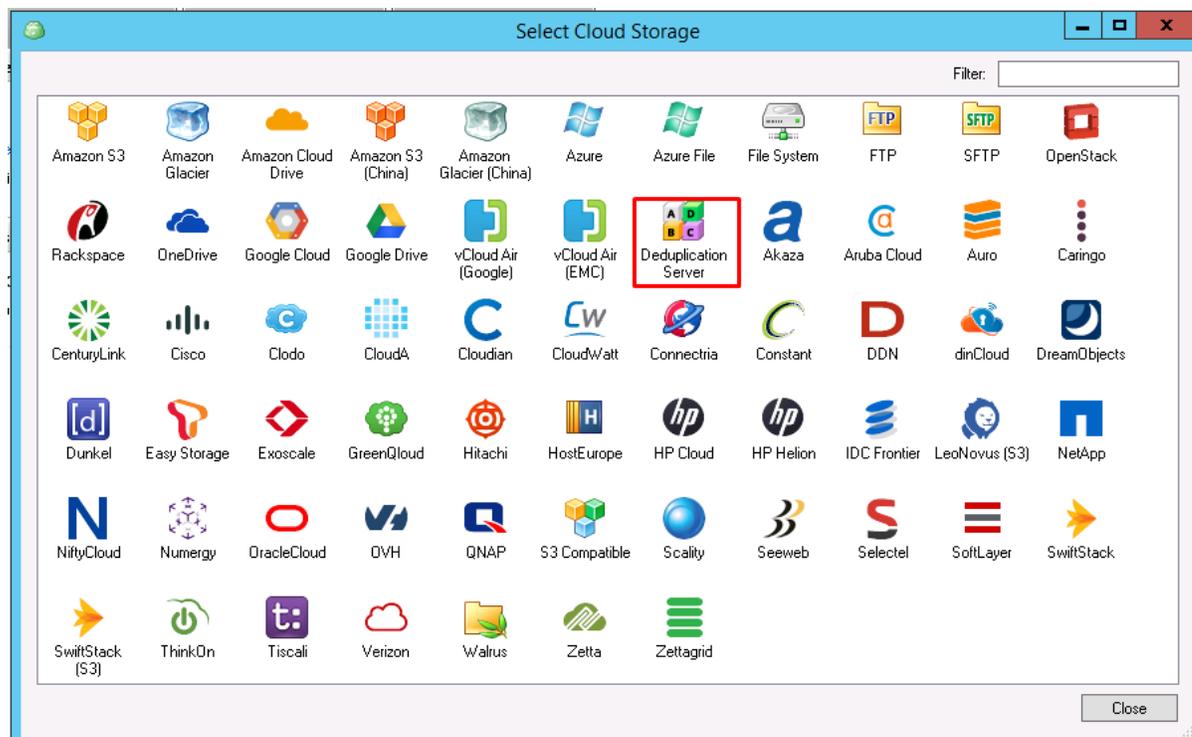
Once the Dedup service was started, you are ready to configure backups with deduplication.

How to Setup CloudBerry Backup with Dedup

Install CloudBerry Backup. Launch CloudBerry Backup and select **Add account** from the Backup Menu button.



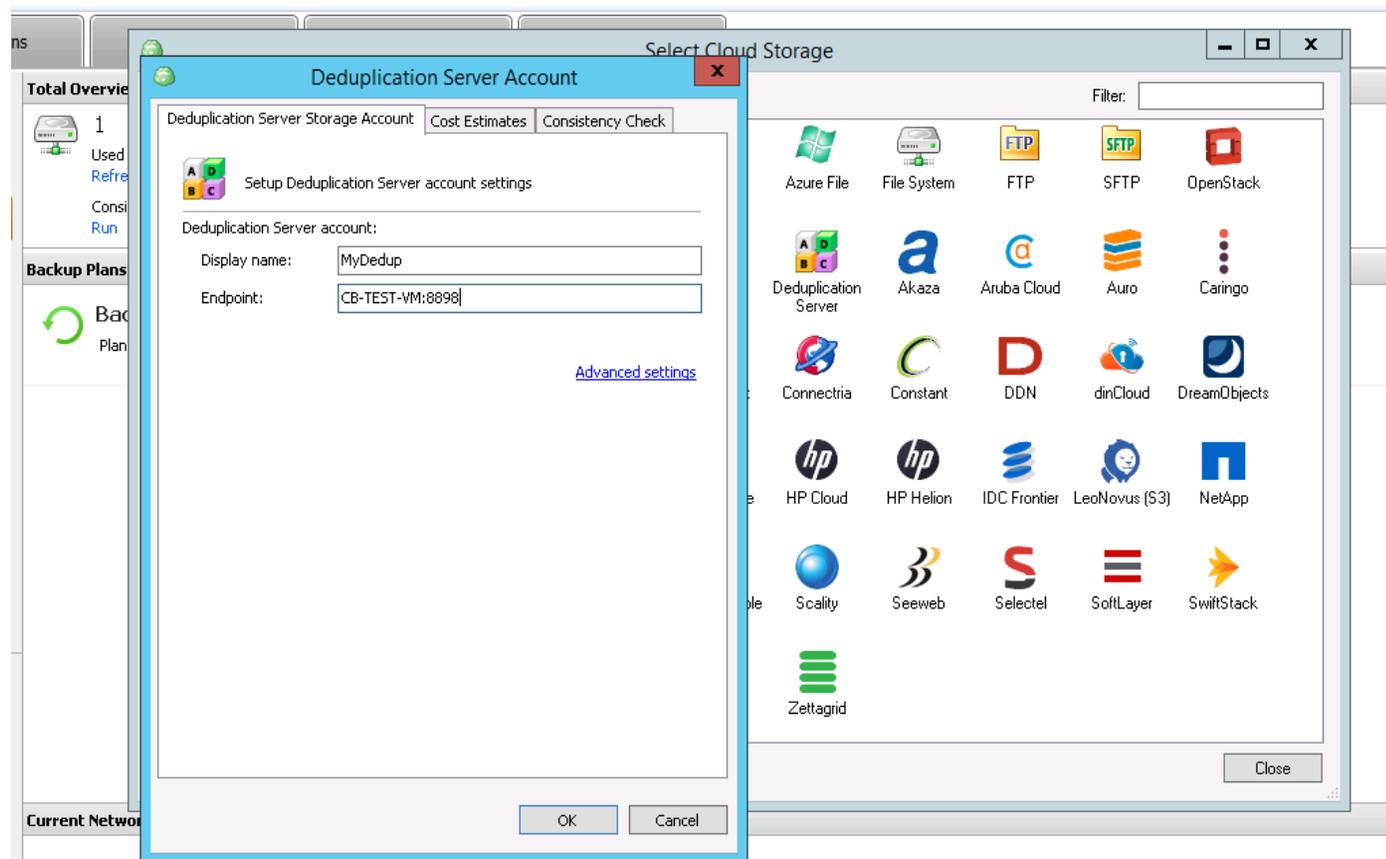
In the window opened choose **Deduplication Server**:



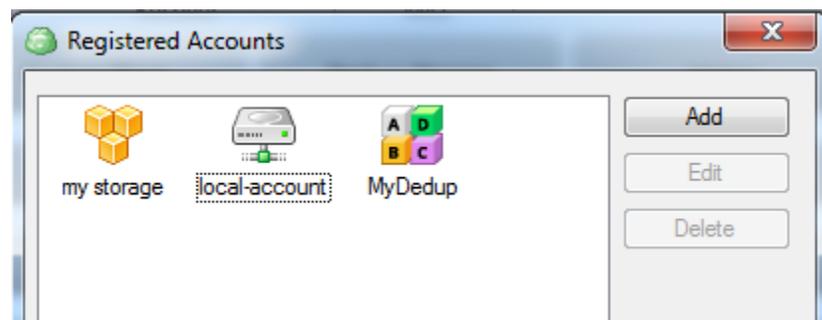
Then specify Dedup Server endpoint (you can find it on the General tab of the Dedup Server settings). For the Display name you can choose any desired name that will identify your Dedup account.

Note: if you used the **Register SCP** option on the Dedup Server, the endpoint will be detected automatically.

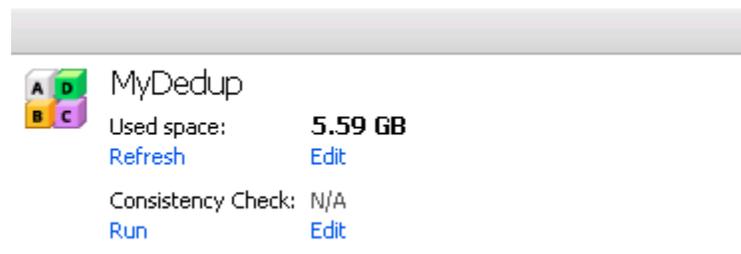
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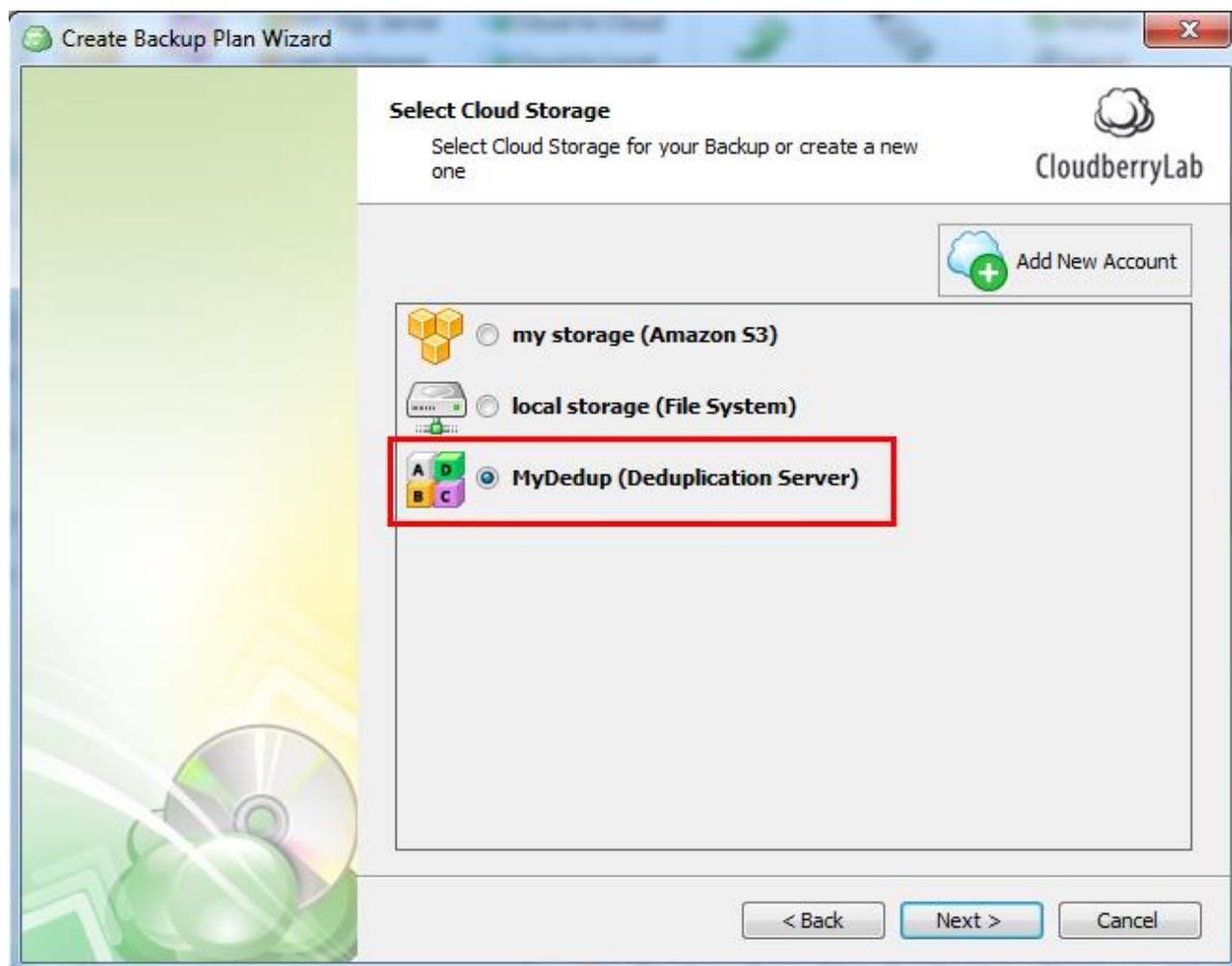
Click OK on the account dialog. The account has been specified:



Its properties will appear in Total Overview section of **Welcome** tab.



Configuration has been completed. You are ready to create backup plans with using deduplication – just choose “Deduplication Server” account in the Backup Wizard:



Proceed to finish up with the Backup Wizard and run the backup. That's it!

When the job status changes to Completed, it means that your data was successfully transferred to Dedup (i.e. temporary storage).

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The screenshot displays the CloudBerry Dedup Server web interface. At the top, there are navigation tabs: Welcome, Backup Plans, Restore Plans, Backup Storage, and History. Below the tabs, a header bar shows the current backup plan: "Backup Bare Metal / System State on 4/13/2016 3:36:14 PM (1) (File System)" with a "NEXT RUN TIME: 12:00 AM 7/3/2016" and a "Run" button. The main content area is titled "Backup plan on 6/7/2016 9:46:31 AM (MyDedup) (Deduplication Server)".

Backup:	C:\PerfLogs
Schedule:	Disabled Enable
Current Status:	Searching for modified files
Last Run:	6/7/2016 9:47 AM
Last Result:	Running
Files Uploaded:	0
Backup Duration:	1 second

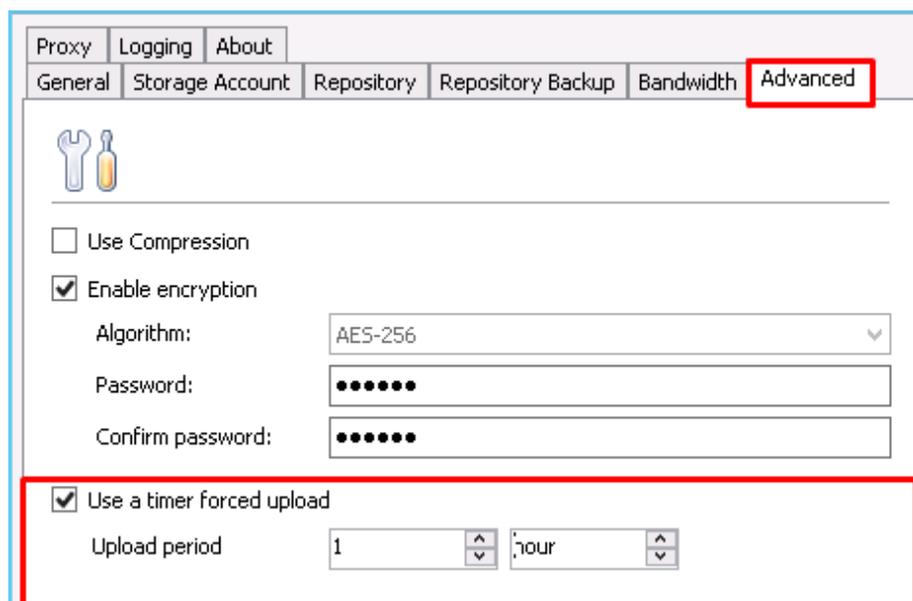
On the right side, there is a progress bar titled "Searching for modified files, please wait...". Below the bar, it shows "Elapsed: 00:00:01", "Speed:", and "Left: N/A". At the bottom right of this section, it says "Current file: 0 of 0" and "Files copied: 0 of 0".

At the bottom of the interface, there are several links: [Edit Backup Plan](#), [Delete Backup Plan](#), [Restore Files](#), [View History](#), and [Clone plan](#). A "Stop Backup" button is also visible in the bottom right corner.

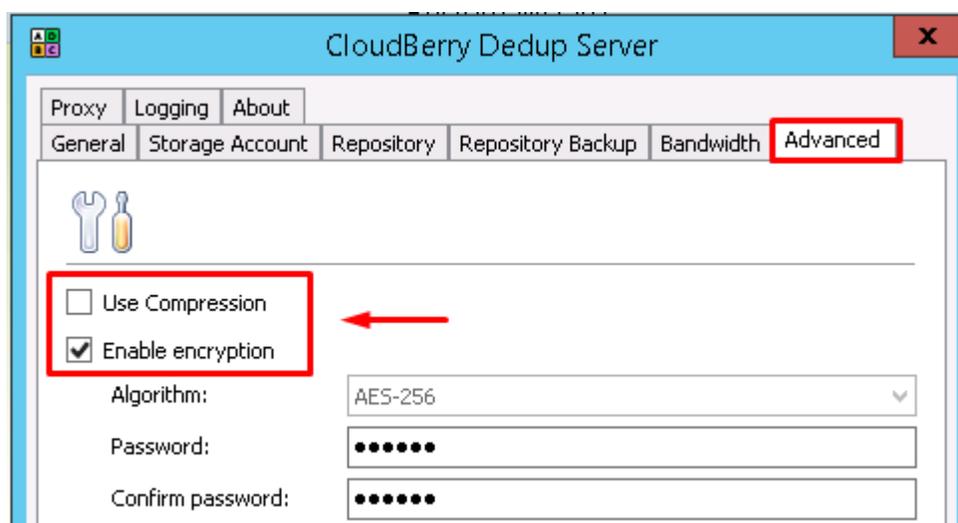
The Dedup Server will operate your data and upload to the cloud storage (specified in the Dedup Server configuration).

Additional Features

Dedup Server starts uploading a deduplicated data block once the data block size reaches 4GB limit. However, you can re-configure the procedure by settings a time for force upload - go to the **Advanced** tab of Dedup Server and select **Use a time forced upload** option:



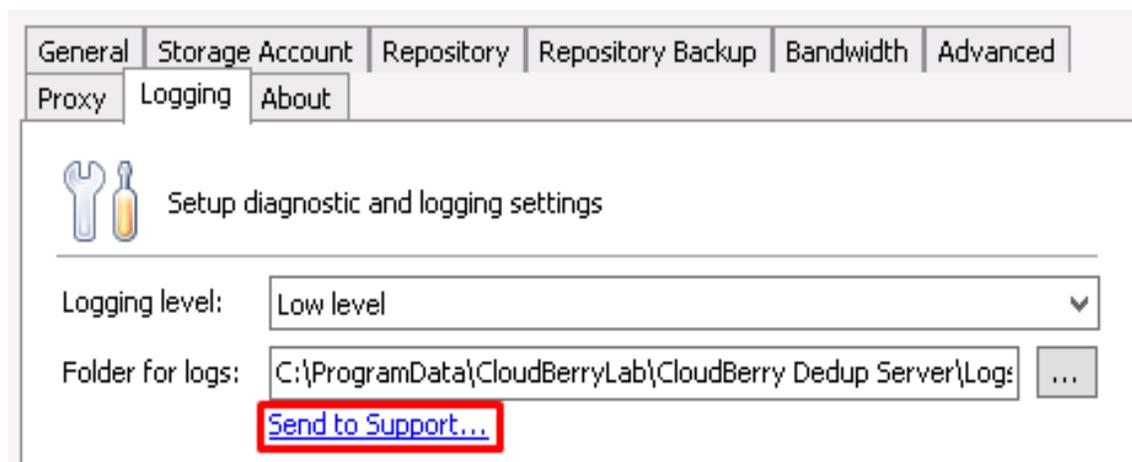
Dedup Server also supports compression and encryption (AES-256 algorithm). It can be enabled on the **Advanced** tab too:



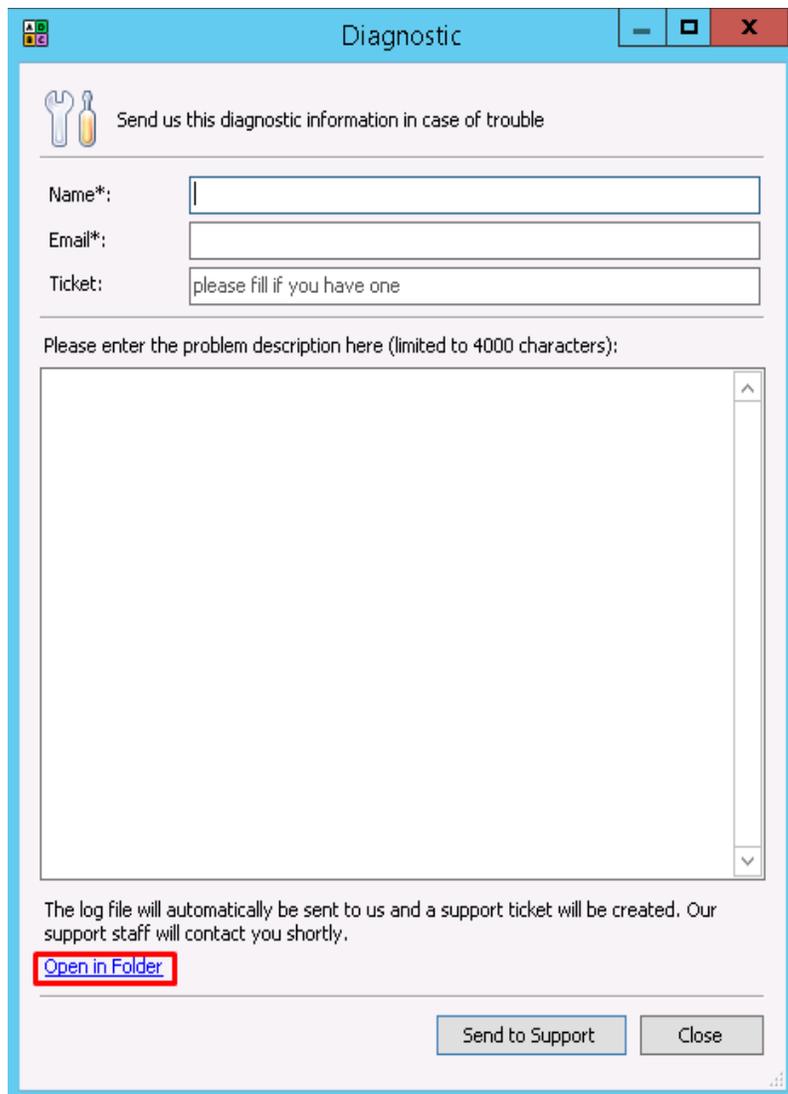
Troubleshooting

Reporting Issue from Dedup Server

To report issue from Dedup Server, go to Logging tab of configuration menu that allows you to send logs directly to our support.



In the Diagnostic window enter your name, contact email and give a short description of an issue then click Send to Support button:



Reporting Issue from CloudBerry Backup

If the dedup issue faced within CloudBerry Backup (e.g. plan failed), you can report it right there by clicking Report an issue.

Backup plan on 5/15/2016 11:35:25 AM (Dedup backup) (Deduplication Server)

Backup:	C:\
Schedule:	Disabled Enable
Current Status:	Not started
Last Run:	5/16/2016 10:26 AM
Last Result:	Error occurred: Async Callback threw an exception. Report an issue
Files Uploaded:	420 (349 MB)
Backup Duration:	37 seconds

Here you can send CloudBerry Backup logs required by support: specify your name, contact e-mail and give a short description of an issue, then click Send to Support button:

Feedback



CloudBerry Backup

Your feedback can help make our product better for everyone. If you have any suggestions, or you have found something incorrect or frustrating, let us know so that we can improve it.

Name*:

Email:

Please enter the error description here:

I would also like to post my message to discussion forum

Attach logs

Note: To fully investigate the dedup issue you also need to send logs from the Dedup Server - see the previous instructions.