3, 2, 1 – Go! Wasabi Deployment Guide

Wasabi® Hot Cloud Storage Deployment Guide for Veeam® Backup for Microsoft Office 365

Better Together: Wasabi and Veeam for Microsoft Office 365 Backup

wasabi
hot cloud storage

veeam

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Overview

Wasabi and Veeam have teamed up to help businesses slash Microsoft Office 365 backup storage expenses, improve data protection and retention, and reduce risk. The integrated solution lets you automatically back up Exchange Online, SharePoint Online, OneDrive for Business and Microsoft Teams data, as well as on-prem Exchange and SharePoint data, to Wasabi hot cloud storage for ultimate economics and peace of mind.

Ideal for today's cloud-first businesses, this **Wasabi-powered backup solution** can help you:

- **Protect Office 365 data** against accidental deletions, malware, and retention policy gaps.

- **Slash storage expenses** by backing up Office 365 data to the industry's lowest-cost cloud storage solution.

- **Simplify planning and budgeting** by avoiding unpredictable data egress and API fees, and by aligning Office 365, Veeam and Wasabi subscriptions.

- **Quickly restore Office 365 data** with lightning-fast, instantly available cloud storage.

- **Support compliance audits, legal discoveries, and cybersecurity forensics** by efficiently searching and examining cloud-archived emails and other records.

- **Protect hybrid implementations and streamline Office 365 migrations** with support for on-premises Exchange and SharePoint servers.

This deployment guide provides an overview of the integrated solution. You will learn:

- The advantages of backing up Office 365 data with Veeam.

- The benefits of the Wasabi-powered backup solution.

- Step-by-step instructions for deploying Wasabi with Veeam Backup for Microsoft Office 365.

Why Veeam Backup for Microsoft Office 365?

Businesses are implementing Microsoft Office 365 to streamline IT operations and improve collaboration and productivity. By moving applications to the cloud, you can reduce capital equipment expenses, avoid server and software maintenance and support hassles, and free up IT staff to focus on core business activities. But Office 365 does not relieve you of your maintenance obligations altogether.

Microsoft operates under a shared responsibility model where Microsoft is responsible for managing the underlying Office 365 infrastructure, and you, the customer, are responsible for managing your Office 365 data (emails, documents stored on SharePoint, etc.) While Microsoft replicates Office 365 data across its cloud data centers to ensure continuous availability, Microsoft does not ensure the integrity of the data.

Microsoft's inherent data replication functionality simply mirrors live Office 365 data across Microsoft sites. It provides no protection if Office 365 data is deleted accidentally by a user, destroyed by a disgruntled employee, or encrypted by ransomware. In other words, if a malicious attacker alters your data, Microsoft immediately replicates the changes across data centers. Thus, the onus is on you, the customer, to back up Office 365 data for disaster recovery, data retention or compliance purposes.

	Primary Responsibility	Supporting Technology	Security	Regulatory
Microsoft's Responsibility	**MICROSOFT GLOBAL INFRASTRUCTURE** Uptime of the Microsoft Office 365 Cloud Service	**Office 365 Data Replication** DC to DC geo-redundancy **Recycle Bin** Limited, short term data loss recovery (no point-in time recovery)	**Infrastructure-Level** Physical Security Logical Security App-level Security User/Admin Controls	**Role as data processor** Data Privacy Regulatory Controls Industry certifications HIPPA, Sarbanes-Oxley
YOUR Responsibility	**YOUR OFFICE 365 DATA** Access and control of your data residing in Office 365	**Office 365 Backup** Copy of your data stored in a different location **Full Data Retention** ST & LT retention filling any/all policy gaps *granular & point-in time recovery options*	**Data-Level** *Internal:* Accidental Deletion Malicious Insiders Employee Retaliation Evidence Tampering *External:* Ransomware Malware Hackers Rogue Apps	**Role as data owner** Answer to corporate and industry regulations Demands from internal legal and compliance officers

Veeam Backup for Microsoft Office 365 provides fast, flexible, and reliable backup and recovery for Office 365 data. The solution protects your data against accidental deletions, security threats and retention policy gaps, helping you reduce risk and uncertainty.

Why a Wasabi-powered backup solution?

Veeam Backup for Microsoft Office 365 supports a variety of on-premises and cloud object storage options. But when it comes to price, planning and performance, not all storage options are the same. Wasabi is affordable, predictable, and fast, making it the perfect storage repository for Veeam Backup for Microsoft Office 365 customers.

Affordable. Simply put, Wasabi is the most cost-effective cloud storage option for Veeam Backup for Microsoft Office 365. Unlike first-generation cloud storage services, Wasabi hot cloud storage is easy to understand and extremely cost-effective to scale. With Wasabi there are no confusing storage tiers to decipher and no complicated fee structures to decode. One product, with simple and ultra-low pricing, supports a wide range of use cases, including data protection.

Predictable. Wasabi's straightforward pricing dramatically simplifies planning and budgeting by eliminating unpredictable data egress, data retrieval and API access fees. And with Wasabi Reserved Capacity Storage you can purchase cloud storage in 1, 3 or 5-year increments to simplify billing, save money and synchronize your Office 365, Veeam and Wasabi subscriptions.

Fast. Wasabi's parallelized system architecture and purpose-built, patented file system delivers faster read/write performance and faster time-to-first byte speeds than alternative cloud storage solutions, making it the fastest Veeam cloud backup storage repository on the market. And unlike with "cold" online storage services, Wasabi hot cloud storage is instantly accessible to support ad hoc forensics, compliance audits or legal discoveries.

Wasabi is a Veeam Alliance Partner Program member, and Wasabi hot cloud storage is a qualified Veeam Ready Object solution, validated to meet stringent Veeam feature compatibility and performance standards.

Deployment and Configuration Instructions

You can use Wasabi as a cost-effective, high-performance backup storage repository for Veeam Backup for Microsoft Office 365 <u>v4 or later</u>. You can also use Wasabi as a staging repository for Office 365 migrations (back up your on-premises Office data to Wasabi, restore it to Office 365, and leave a copy on Wasabi for protection). The diagram below serves as a reference architecture for the integrated Veeam-Wasabi solution. Wasabi interfaces with Veeam using Veeam's native S3 interface.
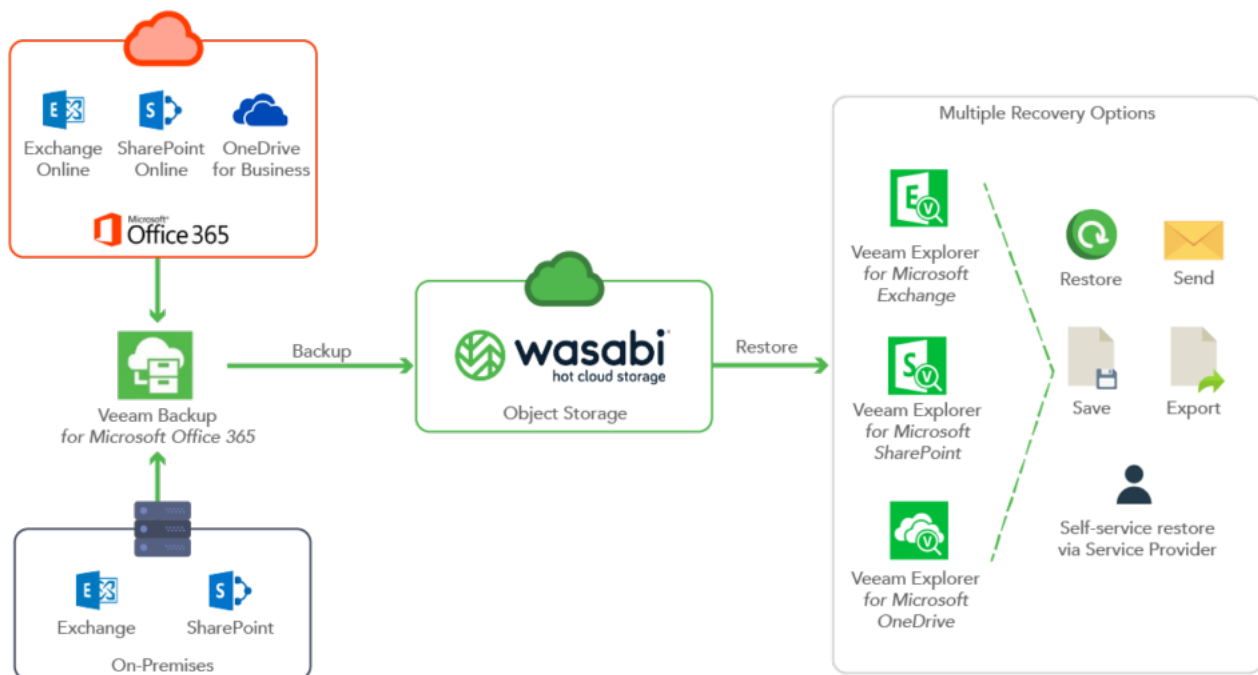
Veeam Backup for Microsoft Office 365 with Wasabi Hot Cloud Storage

Getting Started

To get started with Veeam and Wasabi, you need to 1) create a Wasabi account and storage bucket, 2) configure Wasabi as a backup storage repository in Veeam, and 3) set up a Veeam backup job to back up Office 365 data to Wasabi.

Follow these step-by-step instructions:

STEP 1 Set up a Wasabi account and storage bucket

STEP 2 Add the Wasabi storage repository to Veeam Backup for Microsoft Office 365

STEP 3 Create a backup job to protect your data
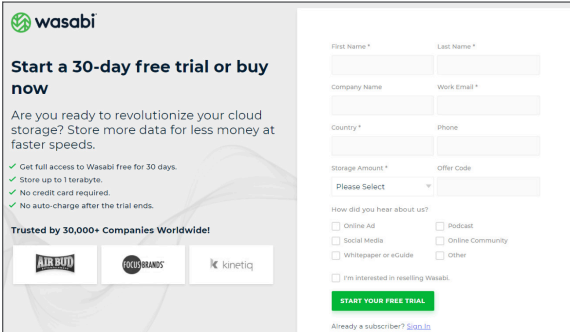
STEP 1
Set up a Wasabi Account and Storage Bucket

Begin by setting up a Wasabi account and creating a Wasabi storage bucket for your Office 365 backups. Perform the following actions:

1. **Sign up for Wasabi**
2. **Create a Wasabi storage bucket**
3. **Generate Wasabi API access credentials**

Sign up for Wasabi
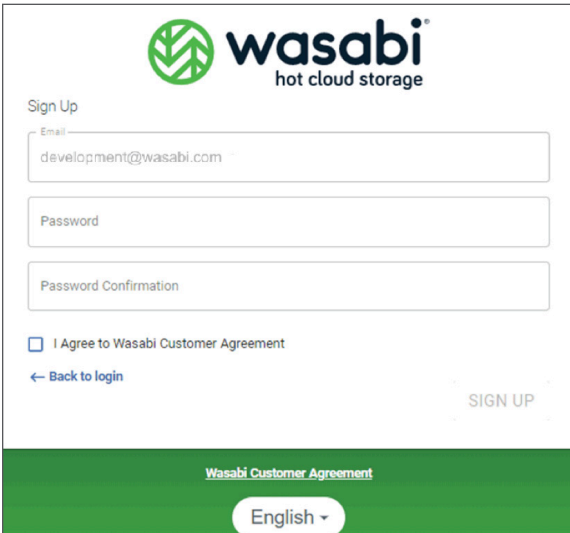
1. Go to **wasabi.com/sign-up**

2. Fill out the form and click **START YOUR FREE TRIAL**. Wasabi will email an invitation to you.

3. When you receive the email invitation click **CREATE ACCOUNT** to set up a free trial account.

4. Create a password, check the **I Agree to Wasabi Customer Agreement** box and click **SIGN UP**.

> **Note:** Appendix A explains how to calculate the backup storage requirements for your production Office 365 implementation. You can use your free Wasabi trial account to store up to 1 TB of data for 30 days without a credit card.
>
> To extend the capacity or duration of your account with a paid Wasabi subscription:
>
> - Log into your trial account at **console.wasabisys.com**.
> - Go to left navigation menu, then select **Billing**.
> - Click on the **Payment Settings** tab in the center of the page.
> - Click **Add New Credit Card** button.
> - Enter in your credit card information and click **Save Card**.
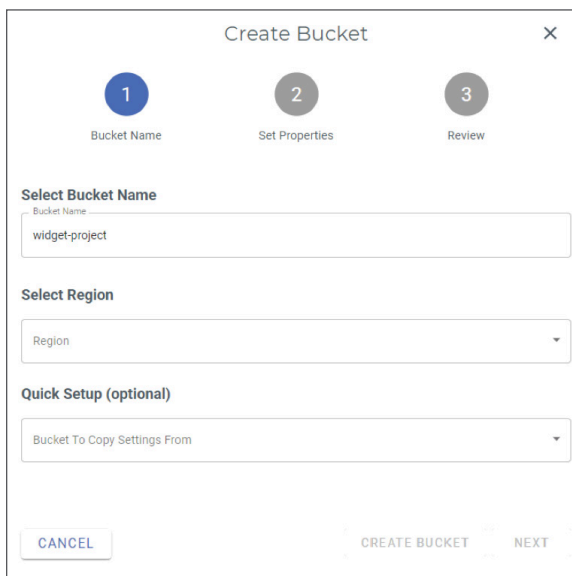
Create a Wasabi storage bucket

1.
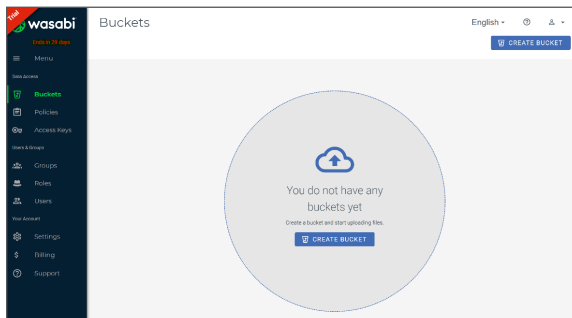
Open the Wasabi Management Console. Click on **CREATE BUCKET**.

2.
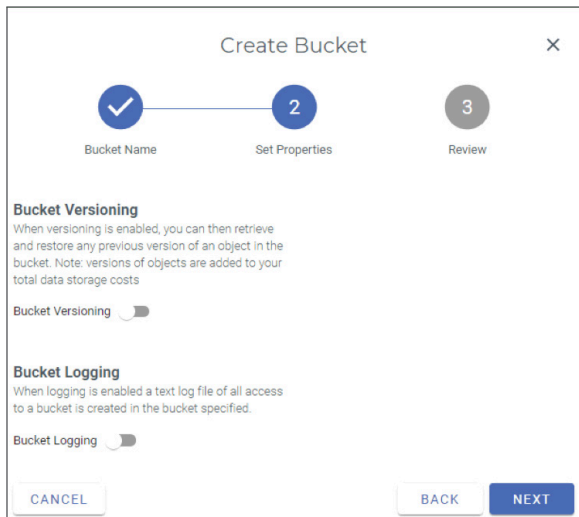
Enter a unique DNS-compliant name in the Bucket Name field. (A bucket name can consist of 3 to 63 lowercase letters, numbers, periods, and dashes. The name must begin with a lowercase letter or number. The name cannot contain underscores, end with a dash, have consecutive periods, or use dashes adjacent to periods. And, the name cannot be formatted as an IP address [123.45.678.90]. Choose a bucket name that reflects the objects you will store in the

bucket. The bucket name is visible in the URL that points to the objects you will put in the bucket.)

Select the Wasabi region where the bucket will reside. Click **NEXT**.

3.
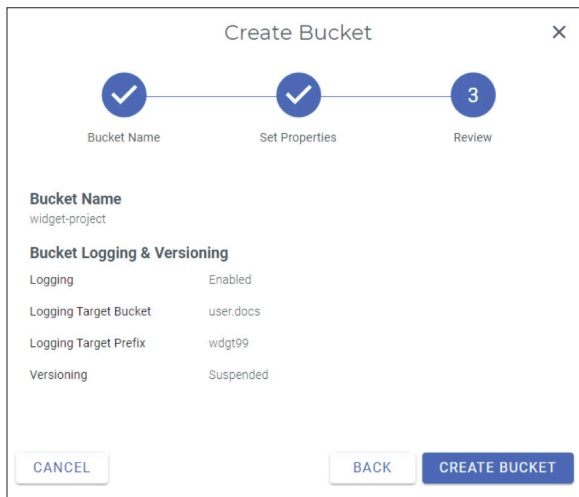
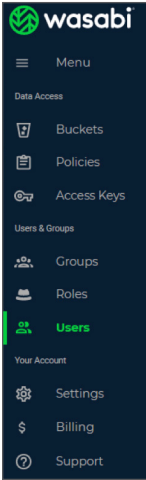Bucket versioning and bucket logging are disabled by default. Leave them disabled and click **NEXT**.
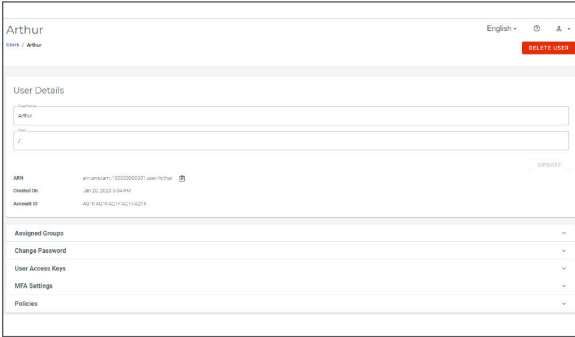
4.

Review the settings and click **CREATE**

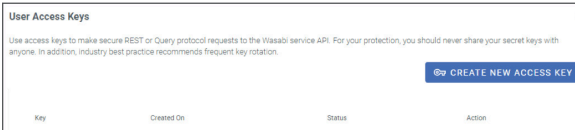**BUCKET** to proceed. A message at the top of your screen indicates the bucket was successfully created.
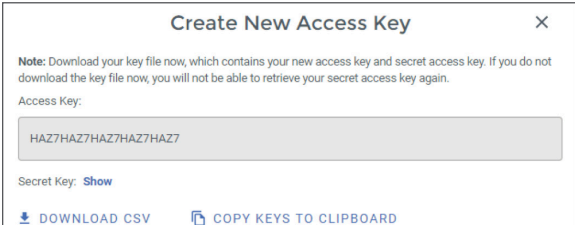
Generate Wasabi API access credentials

Veeam Backup for Office365 requires valid security credentials to gain access to the Wasabi S3 API. You must generate API access credentials for your Wasabi user account, and enter them when you configure Wasabi as a Veeam backup storage repository in Step 2.
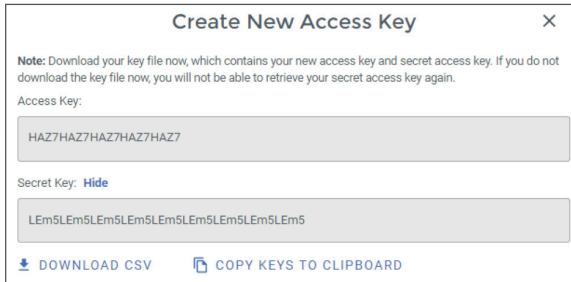
1.   Open the Wasabi Management Console. Click on **Users** in the Wasabi menu on the left, and select your user account.

2.   Select the **User Access Keys** drop down.

3.   Click **CREATE NEW ACCESS KEY**.

4.   Click **Show** next to Secret Key.

5.

Click **COPY KEYS TO CLIPBOARD** and click **X**.

Note: Be sure to keep a copy of both the Access Key and the Secret Key. You will need to supply them when configuring Wasabi as a Veeam backup storage repository in Step 2.

STEP 2
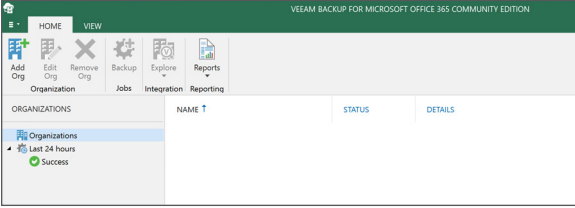## Add the Wasabi Storage Repository to Veeam Backup for Microsoft Office 365

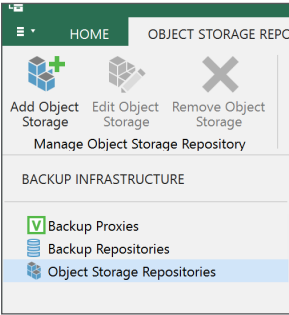Once you've created a Wasabi storage bucket you can add it as a backup storage repository for Veeam.

Note: Veeam Backup for Microsoft Office 365 v4 or later is required. Earlier Veeam versions do not support cloud backup.
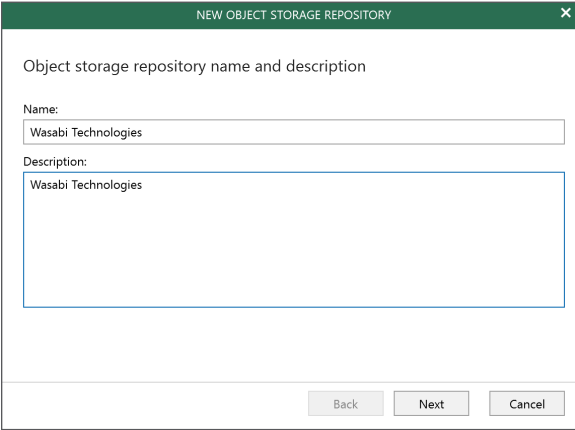
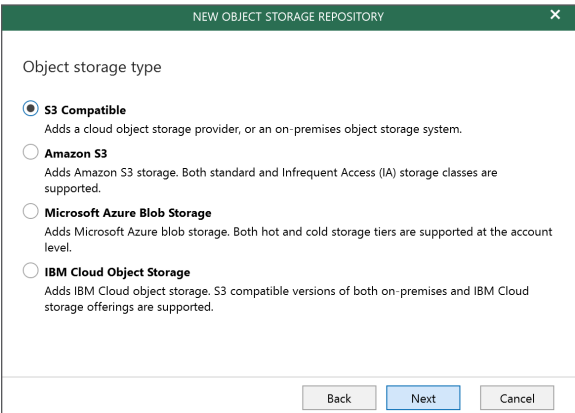To add Wasabi as a Veeam backup storage repository you must:

1. **Add Wasabi as a Veeam cloud object storage service**
2. **Configure Wasabi as a backup storage repository**
3. **Configure the Microsoft organizations and services you plan to back up to Wasabi**

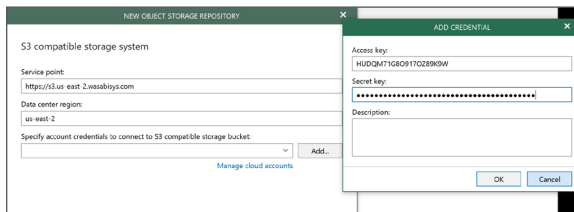# Adding Wasabi as a Veeam Cloud Object Storage Service

1.

Launch Veeam Backup for Microsoft Office 365.

2.

Navigate to **Backup Infrastructure** and click **Object Storage Repositories**. Click **Add Object Storage**.

3.

Provide a name and click **Next**.

4.

Choose **S3 compatible** and click **Next**.

5.

Enter the Wasabi service point URL e.g. https://s3.us-east-2.wasabisys. com. (You can find a complete list of service point URLs for all Wasabi regions in this knowledge base article).
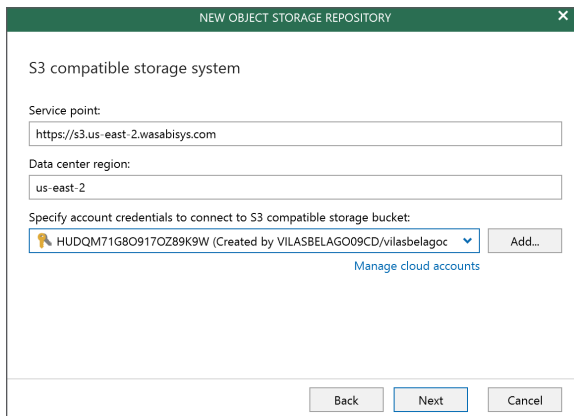
Enter the data center region name e.g. us-east-2

Click **Add** to specify the Wasabi API credentials defined in Step 1.

Paste in the Access Key you copied when creating the Wasabi API credentials.

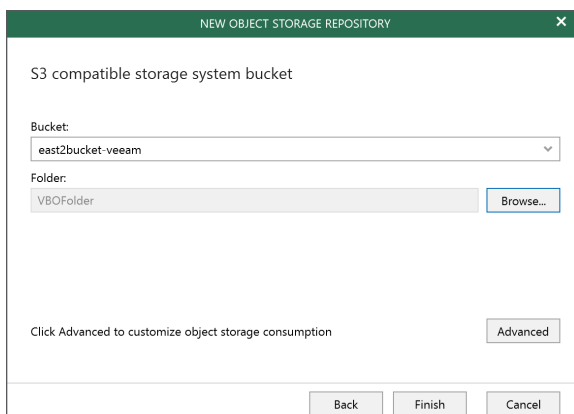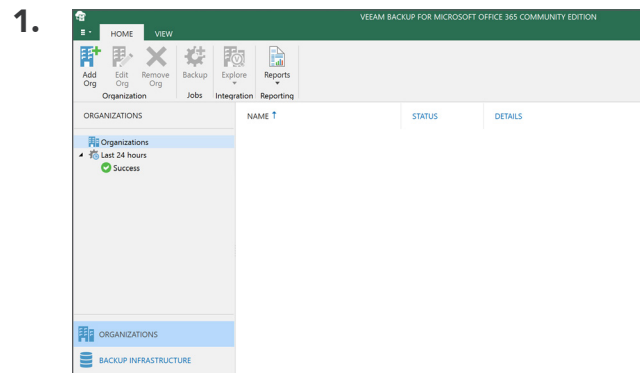Paste in the Secret Key you copied when creating the Wasabi API credentials.

Click **OK**.

6.

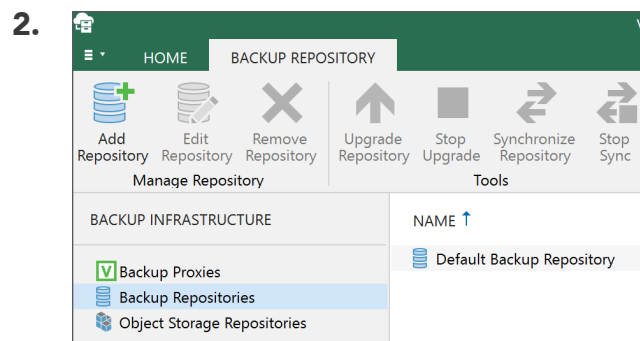Choose the credentials created via the drop down list, then click **Next**.

7.

Choose the Wasabi storage bucket you created in Step 1, create a new folder inside the bucket, and click **Finish**.
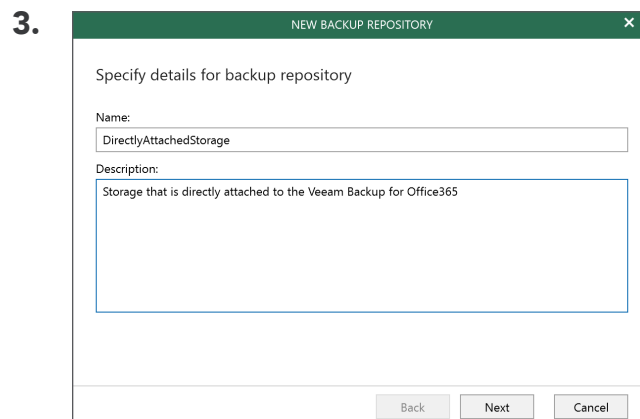
Configuring Wasabi as a Backup Storage Repository
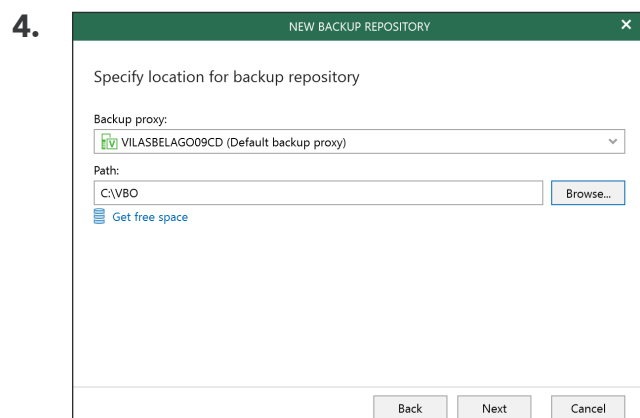
1.

Launch Veeam Backup for Microsoft Office 365.

Click **Backup Infrastructure**.
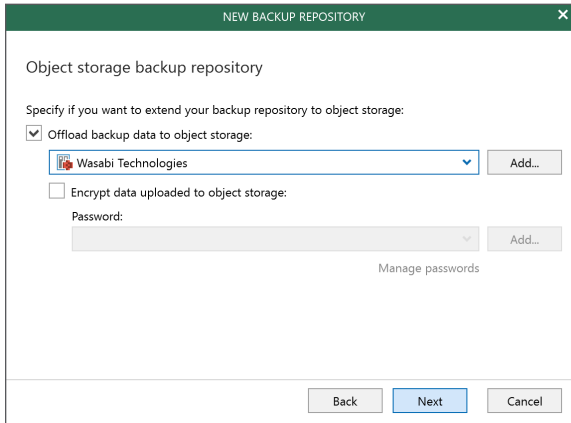
2.

Click **Add Repository**.

3.

Provide a name for the new backup repository, and click **Next**.
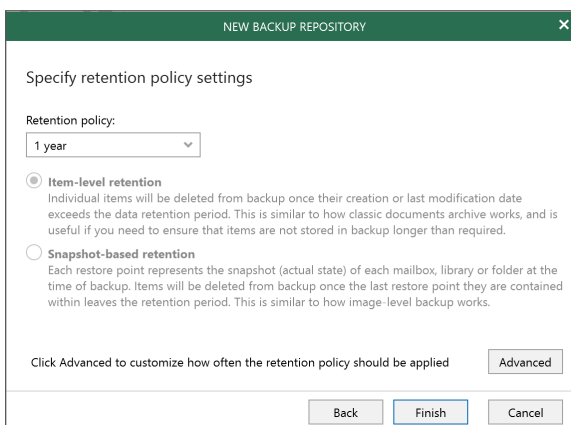
4.

Choose your Veeam backup proxy, provide a destination path for your backups, and click **Next**.

5.

Check **Offload backup data to object storage**, choose **Wasabi Technologies**, and click **Next**.
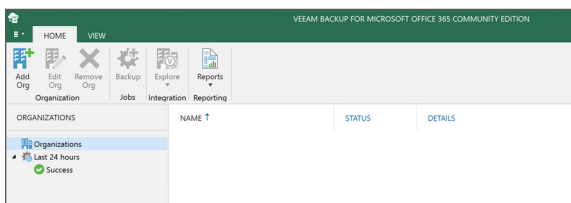
6.

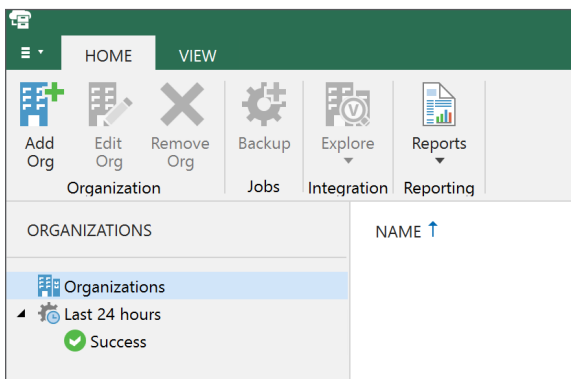Choose a retention policy and click **Finish**.

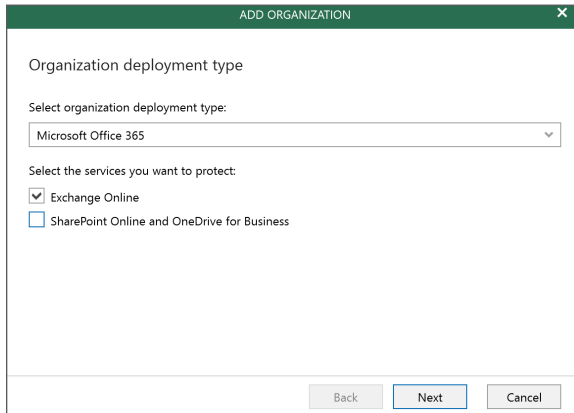## Configuring the Microsoft Organizations and Services you Plan to Back Up to Wasabi

1.

Launch Veeam Backup for Microsoft Office 365

2.
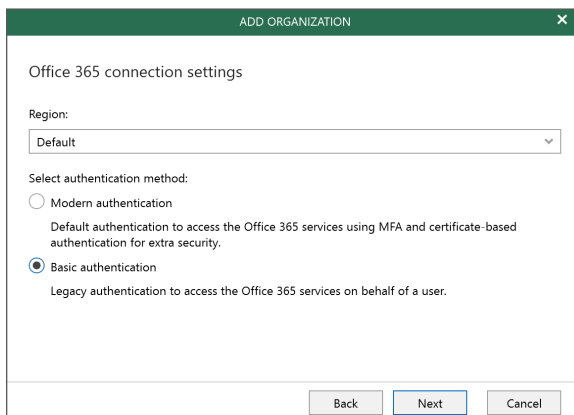
Navigate to the **Organizations** tab and click **Add Org**.
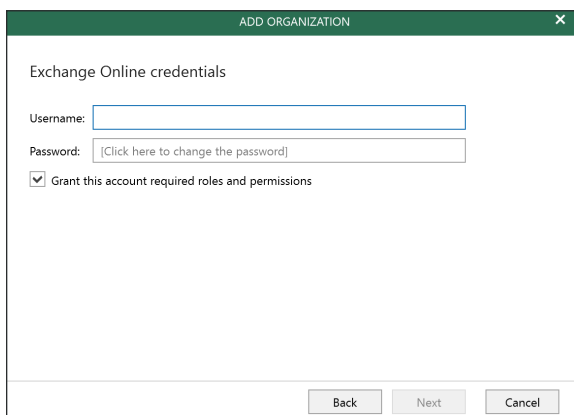
3.

Choose **Microsoft Office365**, check the service you want to protect, and click **Next**.

4.

Select the **Default** region, select **Basic Authentication** or **Modern Authentication** and click **Next**.

5.

Enter the Username and Password credentials for the services you selected, check **Grant this account required roles and permissions**, and click **Next**.

6.
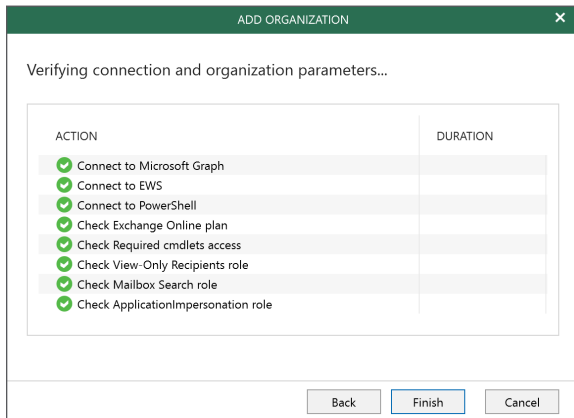
After all actions complete successfully, click **Finish**.

Note: If any of the actions fail, contact your Office 365 administrator to ensure Veeam Backup for Office 365 accounts are properly authorized.

7.
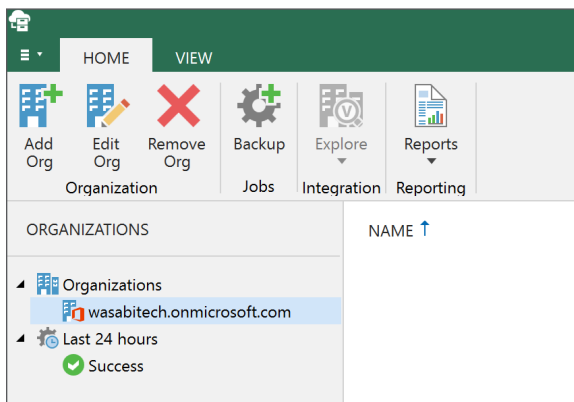
Upon completion the organization name is automatically displayed.

STEP 3
Create a Backup Job to Protect Your Data

Once you've created a Wasabi storage bucket and configured it in Veeam, you can create backup jobs to back up Office 365 data to Wasabi.

Creating a Backup Job

1.
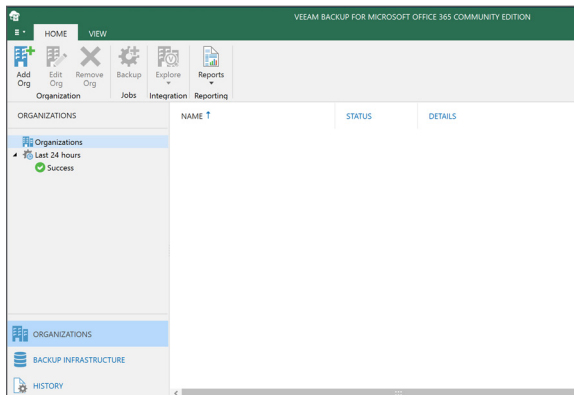
Launch Veeam Backup for Microsoft Office 365.

2.
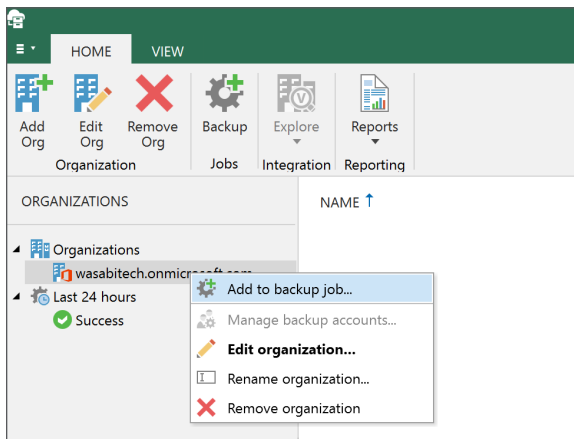
Right-click on the newly created Organization **wasabitech.onmicrosoft. com** and choose **Add to backup job** or click on the organization and click **Backup**.

3.

Specify a name for the backup job and click **Next**.
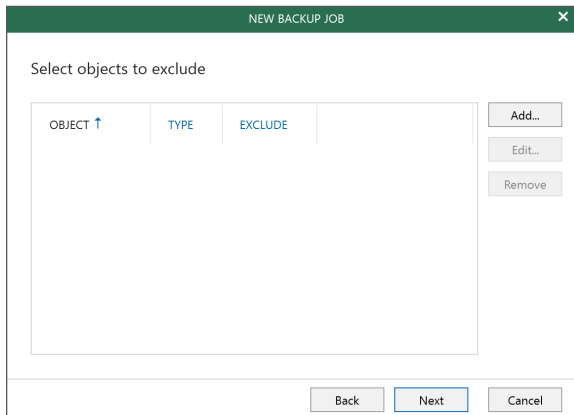
4.

Choose **Back up entire Organization** or **Back up the following objects**. Choose the organization, click **Add**, and click **Next**.

5.

Select the objects to back up and click **Next**.

6.

Select the objects to exclude and click **Next**.

7.
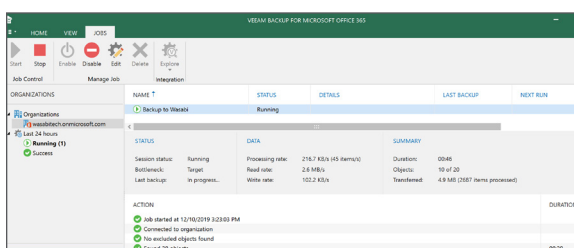
Choose a backup Veeam backup proxy and the Wasabi backup repository, and click **Next**.

8.

Choose scheduling options and click **Create**.

9.

Select the **Jobs tab** to see the status of scheduled, running and complete jobs.

Appendix A

How to Purchase Wasabi Hot Cloud Storage

For End-Customers:
Wasabi is available in both pay-as-you-go and reserved capacity storage pricing models. You can buy Wasabi through our fast-growing network of Channel Partners [e.g. Value-Added Resellers, Managed Service Providers, Cloud Service Providers, Systems In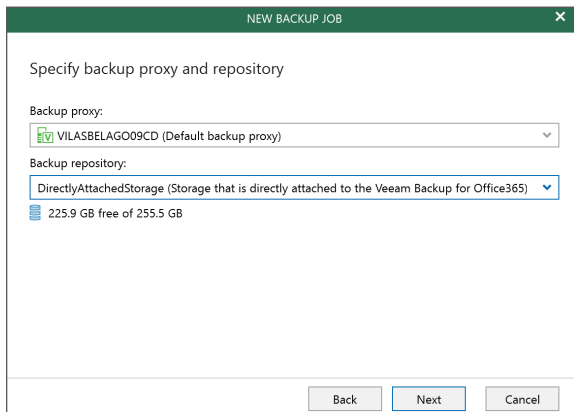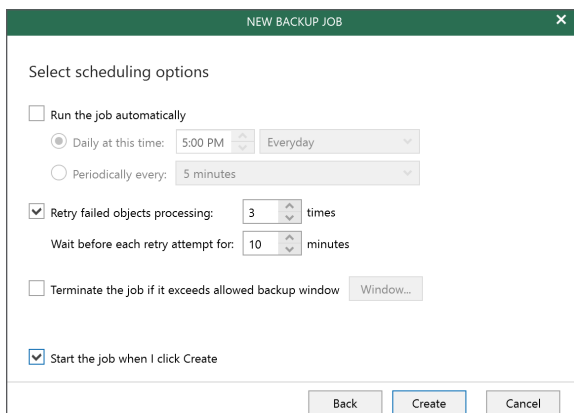tegrators] (recommended for most customers). You can also buy Wasabi directly if you have the IT staff and expertise to implement it yourself.

For Channel Partners:
Wasabi is available in both pay-as-you-go and reserved capacity storage pricing models. You can buy Wasabi through an authorized Wasabi Distributor (recommended), or you can contract with Wasabi if there is no distributor in your area.

Appendix B

Calculating Office 365 Backup Storage Requirements

Determining Office 365 backup storage requirements can be a challenge. You can use a community web app called Office 365 Analysis to save time and eliminate guesswork. Developed and maintained by a Veeam employee, the tool helps you estimate your backup storage requirements and avoid surprises. If you already use Office 365 you can calculate your storage requirements automatically by connecting to your Office 365 account. If you are planning an Office 365 implementation you can estimate your storage requirements manually by entering various service parameters.

Office 365 Analysis

Connect to Your O365 Account

Manual Calculation

Calculate Requirements Automatically or Manually

Primary MailBox

Total Size GB	5
Monthly Change Rate(%)	5
Mailbox Number	5

Retention Policy

Day	0	0
Month	3	91
Year	0	0
	Total Days	91

Local Repository (GB)

8		
	Daily Change	0.0
Repository Size	Total Change	0.5
	DB Size	7
	Working Area	1

Object Storage (GB)

1	4
Cache	Blob Storage

OneDrive

Total Size GB	5
Monthly Change Rate(%)	5
Number of Drives	5

Retention Policy

Day	0	0
Month	0	0
Year	1	0
	Total Days	365

Local Repository (GB)

12		
	Daily Change	0.0
Repository Size	Total Change	3
	DB Size	8
	Working Area	1

Object Storage (GB)

1	7
Cache	Blob Storage

SharePoint

Total Size GB	5
Monthly Change Rate(%)	5
Number of Sites	5

Retention Policy

Day	0	0
Month	0	0
Year	1	365
	Total Days	365

Local Repository (GB)

12		
	Daily Change	0.0
Repository Size	Total Change	3
	DB Size	8
	Working Area	1

Object Storage (GB)

1	7
Cache	Blob Storage

Archive Mailbox

Total Size GB	5
Monthly Change Rate(%)	5
Archive Mailbox Number	5

Retention Policy

Day	0	0
Month	0	0
Year	1	365
	Total Days	365

Local Repository (GB)

13		
	Daily Change	0.0
Repository Size	Total Change	0.5
	DB Size	11
	Working Area	1

Object Storage (GB)

1	7
Cache	Blob Storage

Manual Calculator

Appendix C

Additional Resources

Wasabi Management Console Getting Started Guide

Wasabi Management Console User Guide

Veeam Backup for Microsoft Office 365 v4 User Guide

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hot cloud storage