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Preface

About This Guide
This quick start guide is designed to provide instructions on how to use the Wasabi Ball Transfer Appliance (referred to as the Appliance) for use cases involved in moving data from customer storage environments to Wasabi Hot Cloud Storage.

Conventions
This document uses the following typographical conventions:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IMPORTANT</strong></td>
<td>Stresses the importance of the information presented.</td>
</tr>
<tr>
<td><strong>NOTE</strong></td>
<td>Calls attention to additional information or an explanation.</td>
</tr>
<tr>
<td><strong>Bold Text</strong></td>
<td>Used to indicate specific text that you need to enter (key in) or a button that you need to click.</td>
</tr>
<tr>
<td><strong>Italics Text</strong></td>
<td>Used to indicate titles of books or sections within this document, and for general emphasis.</td>
</tr>
</tbody>
</table>
Technical Support

The Wasabi web site has the latest product information. Use this resource to review product information, download software updates, contact technical support, access the Wasabi knowledge base, or provide feedback on Wasabi documentation and online help:

www.wasabi.com

Use this email address to contact a Wasabi Customer Support representative:

support@wasabi.com
Getting Started

The Wasabi Ball Transfer Appliance lets you move large datasets to Wasabi Hot Cloud Storage quickly, conveniently, and cost-effectively. The Appliance is a Netgear NAS storage device with numerous disks in a RAID 0 array. It securely stores up to 100 TB of data.

Provisioning

The Wasabi Ball Transfer Appliance has four ports in total:

- Two 1 GbE LAN (management) ports
  These 1 GbE ports also can be used as data ports for the customer who has only a 1 GbE network.
- Two 10 GbE LAN (data) ports

Refer to the figure on the next page for a rear view of the Appliance. It is recommended but not required to use a different port for management versus data transfer.
1. Exhaust fan
2. Power cable socket
3. Power switch
4. Kensington lock
5. eSATA port
6. USB 3.0 ports
7. 1 GbE LAN ports with LED status indicators
8. 10 GbE LAN ports with LED status indicators
9. Reset button
10. Micro USB console connector (marked as UART)
By default, the Appliance is configured for DHCP. If you connect the two ports (one 1 GbE for management and one 10 GbE for data transfer) into the DHCP-capable network, both should acquire an IP address from different subnets. The IP address should be displayed on the front LED display. If the display is blank, press the power button behind the front door to turn on the Appliance.

Wasabi configures the second IP interface (LAN2) as a static 192.168.100.100 address for users who are not running DHCP on the management network. Use LAN1 (1 GbE) for DHCP. Or, use LAN2 (1 GbE) for the static IP 192.168.100.100.

To use a static IP, you can cross-connect to the Appliance on LAN2, use the default credentials to ssh into the Appliance, and make changes as needed.

```
Host: 192.168.100.100
Username: root
Password: Wasabi123!
```

Once in the Appliance, you can use ifconfig to assign it a static IP.

The following command will set the IP address to the eth2 10G interface:
```
ifconfig eth2 10.1.1.1 netmask 255.255.255.0
```

```
wasabi$ ssh root@Ip_Address
root@10.0.0.235's password:

Welcome to ReadyNASOS 6.10.0

Last login: Tue May  7 11:02:11 2019 from 10.6.140.8

root@wasabiball34:~# ifconfig eth2 10.1.1.1 netmask 255.255.255.0

root@wasabiball34:~# ifconfig eth2
```

```
eth2  Link encap:Ethernet  HWaddr b0:b9:8a:44:2c:f2
    inet addr:10.1.1.1  Bcast:10.1.1.255  Mask:255.255.255.0
    UP  BROADCAST  MULTICAST  MTU:1500  Metric:1
    RX packets:0  errors:0  dropped:0  overruns:0  frame:0
    TX packets:0  errors:0  dropped:0  overruns:0  carrier:0
    collisions:0  txqueuelen:1000
    RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
```
The Wasabi Ball Transfer Appliance supports the following file system interfaces:

- AFP (Apple File Protocol)
- DLNA (Digital Living Network Alliance)
- FTP (File Transfer Protocol)
- HTTP (Hypertext Transfer Protocol)
- NFS (Network File Service)
- Rsync
- SMB (Server Message Block)

Wasabi Ball supports both NFS and S3 applications for uploading objects to the Wasabi Ball. The mount point needed to write data is:

/Volume1/wasabi

Or:

/Volume[1-4]/wasabi[1-4]

where [1-4] indicates one of four volumes when more than one volume is used. For example:

/Volume3/wasabi3

Be sure to mount using one of the 10G interfaces, if available.

For example:

```
wasabi# showmount -e ip.address
Export list for ip.address:
/Volume1/wasabi *
/home *
wasabi# mkdir wasabicloud
wasabi# sudo mount ip.address:/Volume/wasabi .:/wasabicloud/
wasabi# df -k | grep wasabicloud
ip.address:/Volume1/wasabi 12345678901 12345678 01234567890 1% /home/users/name/wsabi-cloud
wasabi#
```

If you use an S3 application, the mount point needed to write data is:
Mounting for NFS

Uploads

The user can add directories under /Volume1/wasabi. For example:

    mkdir /Volume1/wasabi/mystuff

All data copied to this directory will be uploaded to the user’s account in the specified bucket.

Mounting for S3

Uploads

The user should upload the data set to /Volume1/wasabi-s3. For example:

    mkdir /Volume1/wasabi-s3/mystuff

All data copied to this directory will be uploaded to the user’s account in the specified bucket.
Powering Up and Shutting Down

Powering Up

When you connect the Wasabi Ball Transfer Appliance to a power supply (or the system recovers from a power outage) and the power switch is in the On position, the system returns to its last state:

- If the system was powered on, the system automatically powers on again when the power supply is connected or power is restored.
- If the system was powered off, the system remains off when the power supply is connected or power is restored. In this case, press the power button on the front panel of the system to power on the system.

Shutting Down: Preferred Method

You can gracefully shut down your system by using the power button or the ReadyNAS local admin page. For information about using the ReadyNAS local admin page, see the ReadyNAS OS 6 Software Manual, which is available at https://netgear.com/support/product/ReadyNAS_OS_6

Shutting Down Using the Power Button If the Status Screen is NOT Lit

1. Press the power button on the front panel of the system. The status screen will display.
2. Press the power button a second time. Instructions for graceful shutdown will display on the status screen.
3. Press the power button a third time. The system will shut down gracefully.
Shutting Down Using the Power Button If the Status Screen is Lit

1. Press the power button on the front panel of the system. Instructions for graceful shutdown will display on the status screen.

2. Press the power button again. The system will shut down gracefully.

Shutting Down: Forced Method

Perform a forced shutdown only if the storage system is not responding. To perform a forced shutdown:

Press and hold the power button on the front panel of the system for five seconds.

The LEDs will blink quickly and simultaneously to warn that power will be cut off forcibly. Then, the system will shut down.

Using the ReadyNAS Local Admin Page

For information about using the ReadyNAS local admin page, see the ReadyNAS OS 6 Software Manual, which is available at https://netgear.com/support/product/ReadyNAS_OS_6
Transferring Data

Once the Appliance is mounted, the transfer process can begin. All data should be transferred to the mount point:

/Volume1/wasabi

Or:

/Volume[1-4]/wasabi[1-4]

where [1-4] indicates one of four volumes when more than one volume is used.

For transfer using the S3 application, the data should be transferred to:

/Volume1/wasabi-s3

Any data added to the mount point will be added to the single specified bucket, preserving the folder hierarchy.
Transferring Data from the Wasabi Ball Transfer Appliance

Once the Appliance arrives at Wasabi's data center, Wasabi will begin the transfer process to get your files into your account. To achieve this, Wasabi will need to be able to access your account via an Access key. Using the Wasabi Console, create a sub-user account for Wasabi to access your account with read/write permissions for the specific bucket(s) to which you would like Wasabi to integrate the transferred files.

[Click here](#) for detailed instructions as to how to create a sub-user account and provision access.

Wasabi Ball S3 Server Credentials

If you plan to use an S3 application to upload data to the Wasabi Ball, you will need to use the Wasabi Ball S3 Server Key Set for your S3 application to authenticate to the Wasabi Ball S3 server. The Wasabi Ball S3 Server Keys are emailed to you upon ordering a Wasabi Ball for the transfer device.

Encrypting Data

You can encode data with AES 256-bit volume-based encryption before sending it to Wasabi. Wasabi will send you an encryption key via email or on a USB drive. If the key is sent via email, copy it to a USB drive.

Insert the USB drive in Wasabi Ball and back up your data.
About This Guide

This guide provides a quick overview of basic Wasabi features with procedures for new and prospective users.

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