

# Wasabi Ball Transfer Appliance Quick Start Guide

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# Preface

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## 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.

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## Conventions

This document uses the following typographical conventions:

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

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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](http://www.wasabi.com)

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

[support@wasabi.com](mailto:support@wasabi.com)

# 1

## Getting Started

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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 87 TB of data.

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### Provisioning

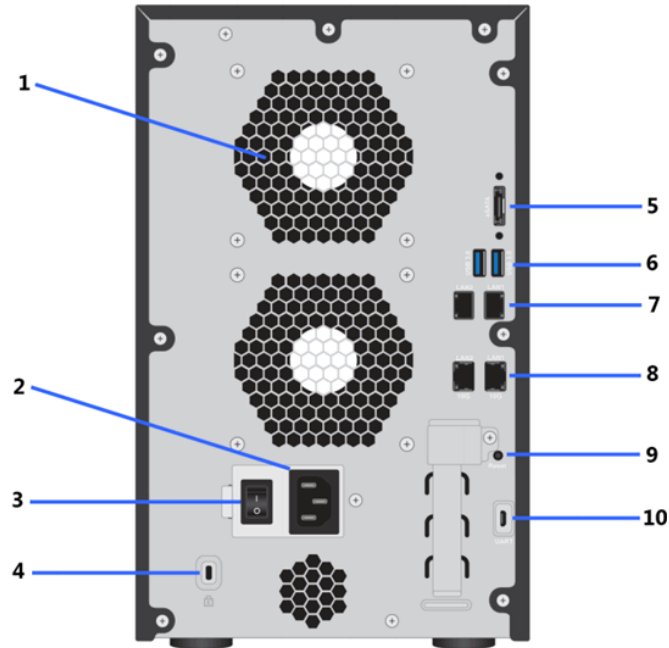
The Wasabi Ball Transfer Appliance has four ports in total:

- ◆ 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.



### Rear Panel ReadyNAS 628X

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)



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## IP Address

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.

For example:

```
wasabi#ssh root@ip.address
root@ip.address's password:
Welcome to Ready NASOS 6.9.1
Last login: Thu Jan 18 11:05_56 2018 from domain.name
root@wasabiball2:~# ifconfig eth2 ip.address netmask 255.255.255.0
root@wasabiball2:~#
```

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## Supported File Systems

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)

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## Mounting the Wasabi Ball Transfer Appliance

You can mount the Appliance after it has an IP address and can be reached. 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 wasabcloud
wasabi#sudo mount ip.address:/Volume/wasabi ./wasabcloud/
wasabi#df -k | grep wasabcloud
ip.address:/Volume1/wasabi 12345678901 12345678 01234567890 1% /home/users/name/wsabcloud
wasabi#
```

# 2

## Powering Up and Shutting Down

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### 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.

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### 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 [netgear.com/support/product/ReadyNAS\\_OS\\_6](http://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.

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#### 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.

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#### 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 [netgear.com/support/product/ReadyNAS\\_OS\\_6](http://netgear.com/support/product/ReadyNAS_OS_6)

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## Transferring Data

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### Transferring Data to the Wasabi Ball Transfer Appliance

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.

Any data added to the mount point will be added to the single specified bucket, preserving the folder hierarchy.

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### Transferring Data from the Wasabi Ball Transfer Appliance

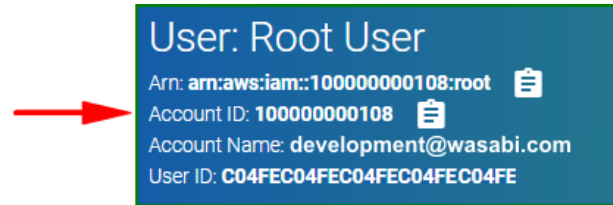
Once the Appliance arrives at Wasabi's data center, Wasabi will begin the transfer process to get your files into your account. To achieve this, Wasabi will need to be able to access your account via an Access key. Using the Wasabi Console, create a sub-user account for Wasabi to access your account 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.

You will use a job file (\*.JOB) to provide Wasabi with the following information:

- ◆ Comment—Optional text, such as to describe the job file.
- ◆ Account—Wasabi account number. You can find this number in Wasabi Management Console:

Click  in the upper right corner of the Console window. Select the **My Profile** option.



- ◆ Target— The folder structure for the transferred data. Omit this line from the job file if you do not want to specify a folder structure.
- ◆ Prefixes—A folder(s) where the files will be placed in the Wasabi bucket. Enter quotes without text if you want to include all folders.

A given job may have multiple prefixes, in which case files are copied across in prefix order. For example:

```
"Prefixes" : ["test1", "test2", "test3"],
```

To specify a null prefix, enter:

```
"Prefixes" : [ "" ],
```

- ◆ Destination
  - Access—Access key.
  - Secret—Secret key.
  - Bucket—Location where the files will be placed. If you want to place data in more than one bucket, Wasabi will need a job file for each bucket.

Information in the job file tells Wasabi how to upload your files from the Wasabi Ball Transfer Appliance to S3. The destination is the Target and Bucket. For example,

An example of a job file is:

```
{
  "Comment" : "Test Wasabi Ball",
  "Account" : "100000012345",
  "Target" : "Folder1/Folder2/Folder3/Folder4/Folder5/",
  "Prefixes" : [ "testfiles" ],
  "Destination" :
  {
    "Access" : "*****",
    "Secret" : "*****",
    "Bucket" : "wasabi-ball-test"
  }
}
```

In this example, the all data in:

```
testfiles
```

will be placed in the folder structure of:

```
Folder1/Folder2/Folder3/Folder4/Folder5/
```

in this Wasabi bucket:

```
wasabi-ball-test
```

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## 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

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

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