

* *

* CORVUS SYSTEMS

* *

SYSTEM
GENERATION GUIDE

Apple III

LIMITED WARRANTY

Corvus warrants its hardware products against defects in materials and workmanship for a period of 180 days from the date of purchase from any authorized Corvus Systems dealer. If Corvus receives notice of such defects during the warranty period, Corvus will, at its option, either repair or replace the hardware products which prove to be defective. Repairs will be performed and defective parts replaced with either new or reconditioned parts.

Corvus software and firmware products which are designed by Corvus for use with a hardware product, when properly installed on that hardware product, are warranted not to fail to execute their programming instructions due to defects in materials and workmanship for a period of 180 days. If Corvus receives notice of such defects during the warranty period, Corvus does not warrant that the operation of the software, firmware or hardware shall be uninterrupted or error free.

Limited Warranty service may be obtained by delivering the product during the 180 day warranty period to Corvus Systems with proof of purchase date. YOU MUST CONTACT CORVUS CUSTOMER SERVICE TO OBTAIN A "RETURN AUTHORIZATION CODE" PRIOR TO RETURNING THE PRODUCT. THE RAC (RETURN AUTHORIZATION CODE) NUMBER ISSUED BY CORVUS CUSTOMER SERVICE MUST APPEAR ON THE EXTERIOR OF THE SHIPPING CONTAINER. ONLY ORIGINAL OR EQUIVALENT SHIPPING MATERIALS MUST BE USED. If this product is delivered by mail, you agree to insure the product or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location and to use the original shipping container. Contact Corvus Systems or write to Corvus Customer Service, 2100 Corvus Drive, San Jose, CA, 95124 prior to shipping equipment.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THIS PRODUCT, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO A PERIOD OF 180 DAYS FROM DATE OF PURCHASE, AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THIS PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

IF THIS PRODUCT IS NOT IN GOOD WORKING ORDER AS WARRANTED ABOVE, YOUR SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. IN NO EVENT WILL CORVUS SYSTEMS BE LIABLE TO YOU FOR ANY DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH PRODUCT, EVEN IF CORVUS SYSTEMS OR AN AUTHORIZED CORVUS SYSTEMS DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

**SYSTEM
GENERATION GUIDE**

Apple III

**Part Number: 7100-05295
Release Date: December 1984
Revision: A**

NOTICE

Corvus Systems, Inc. reserves the right to make changes in the product described in this manual at any time without notice. Revised manuals will be published as needed and may be purchased from authorized Corvus Systems dealers.

This manual is copyrighted. All rights reserved. This document may not, in whole, or in part be copied, photocopied, reproduced, translated or reduced to any electronic medium or machine readable form without prior consent in writing from:

Corvus Systems, Inc.
2100 Corvus Drive
San Jose, CA. 95124

Telephone: (408) 559-7000
TELEX: 278976

(c) Copyright 1984 by Corvus Systems, Inc. All rights reserved.

Apple (R) is a registered trademark of Apple Computer, Inc.

Corvus Systems (TM), Corvus Concept (TM), Transporter (TM), Omninet (TM), LogiCalc (TM), EdWord (TM), The Bank (TM), Bank Tape (TM), OmniDrive (TM), ISYS (TM), Constellation (R), and Mirror (R) are trademarks of Corvus Systems, Inc.

Mirror (R), U.S. Patent #4,380,047 International patents pending
Corvus Concept (TM), patent pending
Omninet (TM), patent pending

**TABLE OF
CONTENTS**

Getting Started:	1
How this Guide is Organized.....	1
Usage.....	2
Hardware and Software Required.....	2
Chapter 1: Preparing for Apple III Constellation II	5
Copying Diskettes.....	5
Updating Firmware.....	6
Chapter 2: Setting up a New Drive	13
Chapter 3: Adding to an Existing Drive	21
Finding a Free Area.....	21
Checking Names.....	22
Adding Apple III Constellation II.....	22
Chapter 4: Making a Boot Diskette	31
Appendix A: Names and Passwords	33

**GETTING
STARTED**

This guide shows how to prepare a Corvus mass storage system for use with an Apple (R) III computer. The guide addresses installing Constellation II for the Apple III on a new OmniDrive (TM) mass storage system, and adding Constellation II for the Apple III to an OmniDrive that already has an existing operating system.

Before following the steps in this guide, complete the *Apple III Network Station Installation Guide*.

HOW THIS GUIDE IS ORGANIZED

Read the chapter summaries below for instructions on generating your mass storage system. Complete chapter 1, and then select either chapter 2 or chapter 3 for initializing your drive. Then continue with chapter 4.

All users will turn to **Chapter 1** to make copies of the Corvus diskettes and update the firmware.

Go to **Chapter 2**, "Setting up a New Drive," to generate a new mass storage system that has never been initialized for Constellation II.

Go to **Chapter 3**, "Adding to an Existing Drive," to add the Apple III Constellation II software to a mass storage system already using Constellation II software and a different computer type.

All users will turn to **Chapter 4**, "Making a Boot Diskette," to learn how to make a boot diskette for the network user.

USAGE

Throughout this guide, *type* means to enter two or more characters or keyboard symbols on the computer keyboard. Type all words, symbols, spaces and punctuation to the right of *type* exactly as shown. Do not add or leave out punctuation marks at the end of the statement.

Examples:

Type COPY B:*.DOC

Type DIR C:

Throughout this guide, *press* means to enter a single character or symbol on the computer keyboard. When a keytop symbol appears, press the key to which it refers. Do not type out each letter of the word in the keytop symbol.

Examples:

Press Y

Press [RETURN]

When the command *type* or *press* appears in a sentence or paragraph, enter the information indicated.

Example:

Type your user name and password and **press** [RETURN].

HARDWARE AND SOFTWARE REQUIRED

In order to initialize a drive for the Apple III, you must have an Apple III computer with at least 256 kilobytes of memory and an external floppy drive.

Generating Apple III Constellation II requires the following software:

- o Apple III Constellation II utilities (four diskettes)

A3C2.1

A3C2.2

A3C2.3

A3C2.4

- o Apple III System Manager's diskette (one diskette)
A3SMGR

This page intentionally left blank.

PREPARING FOR
APPLE III CONSTELLATION II | 1

This chapter shows how to make copies of the Corvus diskettes and how to update the firmware. Copying the Corvus diskettes protects the information, and updating the firmware allows the Apple III to communicate with the mass storage system.

COPYING DISKETTES

1. **Insert the Apple III utilities diskette.**

Insert the Apple III utilities diskette in the internal floppy drive.

2. **Turn on the Apple III.**

The screen displays the Apple III utilities main menu.

3. **Copy the Corvus diskettes.**

Make copies of the Corvus diskettes: A3SMGR, A3C2.1, A3C2.2, A3C2.3, and A3C2.4. To make copies of these diskettes use the Apple SOS Copy-volume command on the Device Handling Commands Main Menu. Use the copies to generate the system. Store the originals in a safe place. If any problems arise, the source diskettes will be available.

UPDATING FIRMWARE

Before the Apple III can communicate with the mass storage system, a new firmware file should be copied from a diskette to the drive. The firmware acts as an interpreter for drive commands.

Copying new firmware onto the drive is known as updating the firmware. To update the firmware, use the disk diagnostic program. Follow the steps below.

1. **Insert the A3SMGR diskette in the diskette drive.**

Make sure your OmniDrive is turned on and then Insert the A3SMGR diskette in the internal floppy drive.

2. **Boot the computer.**

Hold down [CTRL] and press [RESET]

Then screen displays:

Error reading Constellation boot file.
Press any key to continue

Do not be alarmed by the error message. At this point the screen should display this message.

Press [SPACE]

The screen displays the Pascal command line.

3. **Insert the A3C2.1 diskette in the floppy drive.**

Remove the A3SMGR diskette from the floppy drive and insert the A3C2.1 diskette in the internal floppy drive.

4. **Insert the A3C2.3 diskette in the floppy drive.**

Insert the A3C2.3 diskette in the external floppy drive.

5. **Execute the diagnostic program.**

Press X

The screen displays:

Execute what file?

Type .D2/MDIAG

Press [RETURN]

The screen display is similar to:

MDIAG [x.xx] Corvus Mass Storage Diagnostic
Select Drive Slt: 4 Srv: 0

Slot 1:
Slot 2:
Slot 3:
Slot 4: Corvus Omninet interface

Select slot number: [4]

**6. Select the
slot number.**

Press the slot number of the Omninet interface.

Press [RETURN]

The screen displays:

Enter the server number: [0]

**7. Select the
server number.**

Enter the Omninet address of the mass storage system.
This address was determined in the section "Setting
the Omninet Address" of the *Omnidrive Setup
Instructions* or in the *Disk Server Installation
Guide*. After entering the address,

Press [RETURN]

The screen display is similar to:

Selected drive is drive DRIVE1 on SERVER0
Continue? [Y/N]:

Press Y

The screen displays:

MDIAG [x.xx] Corvus Mass Storage Diagnostic
(C) 1984, Corvus Systems, Inc. Slot: 4 Srvr: 0

D - Select Drive
V - Version Check
P - Park Heads for Shipment
X - Exercise Drive
C - Check for Bad Tracks
S - Show Results

F - Format Drive
U - Update Firmware
M - Modify Parameters

N - Set Diag Data File Name
A - Advanced Options

E - Exit

Select diagnostic option

**8. Select update
firmware.**

Press U

The screen display is similar to:

MDIAG [x.xx] Corvus Mass Storage Diagnostic
Update Firmware OmniDrive Slt: 4 Srvr: 0

The selected option may destroy data on the drive.
Ensure the correct device is selected.

FORMAT and UPDATE options require the firmware file
to be on a controller card other the selected device

Selected device is slot 4, server 0, drive 1

Continue? [Y/N]

After ensuring that the slot and server are correct,

Press Y

The screen display is similar to:

Change drive tables? [Y/N]: [N]

Do not change the drive tables.

Press [RETURN]

The screen display is similar to:

Enter firmware file name: [ODRV.FIRMWARE]

- 9. Enter the firmware file name.

Accept the suggested file name.

Press [RETURN]

The screen displays:

Firmware file message ODRV.1.7. -- CONSTII -- 09/84
Continue? [Y/N] Y

Press [RETURN]

The screen display is similar to

Moving firmware from file ODRV.FIRMWARE to drive
.....

Drive Firmware updated.

Reset device -- Turn drive power off and then on
again.

Press <space> to continue.

Press [SPACE]

The screen displays the disk diagnostic program main
menu.

- 10. Reset the drive.

Turn your OmniDrive off and then back on again. When
only the ready light is on, go to the next step.

11. Exit the diagnostic program.

Press E

The screen displays:

Insert volume: A3SMGR
in device: .D1
then press the ALPHA LOCK key twice.

12. Insert the A3SMGR diskette in the diskette drive.

Insert the A3SMGR diskette in the internal floppy drive.

Press the Alpha Lock key twice.

The screen displays the Pascal command line and the error message:

Unable to open file
/A3SYS/C2MGR.CODE.
Unit is not on line.

Do not be alarmed by this error message. At this point, the error message should occur.

Where to go from here:

- o If initializing a mass storage system that has never been initialized for Constellation II, then go to Chapter 2 of this guide.
- o If adding the Apple III Constellation II system to a mass storage system already using Constellation II software, then go to Chapter 3 of this guide.

SETTING UP
A NEW DRIVE | 2

This chapter shows how to generate an Apple III Constellation II system for a new OmniDrive. Once the firmware has been updated, run the system generation program from the Apple III to put the Constellation II utilities on the mass storage system.

1. Insert the A3C2.1 diskette in the diskette drive.

The screen should be displaying the Pascal command line. If the Pascal command line is not displayed on the screen then boot the computer with the A3SMGR diskette.

Insert the A3C2.1 diskette in the internal floppy drive.

2. Insert the A3C2.2 diskette in the diskette drive.

Insert the A3C2.2 diskette in the external floppy drive.

3. Run the system generation program.

From the Pascal command line,

Press X

The screen displays:

Execute what file?

Type .D2/SYSGEN

Press [RETURN]

The screen displays:

Enter SYSGEN Password:

4. Enter the password.

Type HAI

Press [RETURN]

The password does not appear on the screen. The screen displays the main menu of the system generation program:

System Generation [x.xx]
Main Menu
(c) Copyright 1982, 1983, 1984 Corvus Systems, Inc.

I - Initialize a New Drive
M - Modify an Existing Drive
D - Display Drives On Line

H - Help
E - Exit

Please select an option:

5. Select the option to initialize a new drive.

Press I

The screen displays:

Please select drive to be initialized.

Server number: [0]

6. **Select the
server number.**

Enter the Omninet address of the mass storage system.

Type the Omninet address.

Press [RETURN]

The screen displays:

Drive number: [1]

7. **Select
the drive.**

Press [RETURN]

The screen display is similar to:

Selected drive is slot 7, server 0, drive 1.

Enter disk server name: [SERVER0]

**8. Name the
disk server.**

Choose a name of up to 10 characters, either letters or numbers, with the first character a letter. Write this name in Appendix A.

Type the name and press [RETURN].

The screen displays:

Enter disk server password: [SERVER0]

**9. Create a disk
server password.**

Choose a password of up to eight characters, either letters or numbers, with the first character a letter. Write this password in Appendix A.

Type the password and press [RETURN].

The screen displays:

Enter drive name: [DRIVE1]

**10. Name
the drive.**

Choose a name of up to 10 characters, either letters or characters, with the first character a letter. Write the name in Appendix A.

Type the name and press [RETURN].

The screen displays:

Enter drive password: [DRIVE1]

**11. Create a
drive password.**

Choose a password of up to eight characters, either letters or numbers, with the first character a letter. Write the password in Appendix A.

Type the password and press [RETURN].

The screen displays:

Do you want to use the
standard configuration? [Y/N]: [Y]

Press [RETURN]

The screen displays:

Blocks 9 through 2108 will be overwritten.
OK to initialize the new drive? [Y/N]:

**12. Initialize
the drive.**

Press Y

Press [RETURN]

The screen displays:

Initializing CORVUS volume...

[0]
[40]
[80]
[120]
[160]

196 system table blocks initialized.

The screen then displays a lengthy message indicating that a boot file and a user were added, the volumes A3SYS, A3BACK, and A3UTIL were intialized, and several files were copied.

After this message is complete, the screen displays:

Insert volume: A3SMGR
in device: .D1
then press the ALPHA LOCK key twice

13. **Insert the A3SMGR diskette.
in the diskette drive.**

Remove the A3C2.1 diskette from the internal floppy drive, and the A3C2.2 diskette from the external floppy drive.

Insert the A3SMGR diskette in the internal floppy drive.

Press the Alpha Lock key twice.

The screen displays:

UPDATE [x.xx] Corvus Utility Update Program
(c) Copyright 1983, 1984 Corvus Systems, Inc.

Please insert the A3C2.1 diskette in the internal drive
Press <space> after inserting the diskette.

**14. Transfer the files
to the mass storage system.**

Generating the system requires transferring files from four diskettes: A3C2.1, A3C2.2, A3C2.3 and A3C2.4. The program prompts for each diskette by name. Insert each diskette in the internal floppy drive and press [SPACE] after inserting each diskette. When the program is finished with the last diskette, the screen displays:

Space recovered.

Update completed.
Reboot required.

**15. Reset the
drive.**

Reset the drive by turning the drive off and then back on.
When only the Ready light is on, go to the next step.

**16. Reboot
the computer.**

Remove the last diskette and boot the computer with the Apple III utilities diskette.

The network disk system now has Apple III Constellation II software.

Now go to Chapter 4, "Making a Boot Diskette."

ADDING TO AN		
EXISTING DRIVE		3

This chapter explains how to modify a mass storage system to include the Constellation II utilities for the Apple III. The mass storage system should already work with at least one computer type using Constellation II software.

This chapter is split into three tasks: (1) find space on the mass storage system for the Apple III Constellation II system volumes; (2) check the existing user and volume names and make sure that they do not match the user and volume names that will be created during system generation; and (3) add Apple III Constellation II.

This chapter assumes the mass storage system is initialized and works with a computer that uses Constellation II software.

Complete the *Apple III Network Station Installation Guide* before following the steps in this chapter.

FINDING A FREE AREA

To add the Constellation II system volumes for the Apple III you must find a free area of 1800 blocks on the drive. Log on as the system manager and enter the volume manager. From the volume manager main menu,

Press L

The volumes and their addresses are listed. If the largest free space on the drive is 1800 blocks or greater, note the address of this unused area.

If the largest area on the drive is less than 1800 blocks, create an area of a least 1800 blocks by moving or deleting existing volumes. For instructions, see the system manager's guide for the existing system.

Once an area of 1800 blocks is freed, note the free area's address. This address will be used in step 11 of this chapter's subsection "Adding Apple III Constellation II."

Return to the volume manager main menu and continue to the next section.

CHECKING NAMES

The program that modifies an existing drive for the Apple III creates two users, A3MGR, and A3BACKUP, and three volumes, A3UTIL, A3BACK and A3SYS. Make sure that all of the existing user names and volume names are different from the names created during system generation.

To check the volume names, press L from the volume manager main menu to list the volumes. If any of the existing volume names are A3UTIL, A3BACK, or A3SYS press [ESC]. Then select the change volume attributes option of the volume manager to change the name of the existing volume.

To check the user names, press L from the user manager main menu to list the users. If any of the existing user names are A3MGR or A3BACKUP create a new user account with a different name but identical attributes and remove the duplicate user.

After the user and volume names have been checked, return to the Constellation II main menu.

ADDING APPLE III CONSTELLATION II

After updating the firmware, finding a free area, and checking the names, run the system generation program to add the Apple III Constellation II utilities to the existing mass storage system.

1. **Insert the A3SMGR diskette in the diskette drive.**

Insert the A3SMGR diskette in the internal floppy drive.

2. Boot the computer.

Hold down [CTRL] and
press [RESET]

Then screen displays:

Error reading Constellation boot file.
Press any key to continue

Do not be alarmed by the error message. At this point the screen should display this message.

Press any key.

The screen displays the Pascal command line.

3. Insert the A3C2.1 diskette in the diskette drive.

Remove the A3SMGR diskette from the internal floppy drive. Insert the A3C2.1 diskette in the internal floppy drive.

4. Insert the A3C2.2 diskette in the diskette drive.

Insert the A3C2.2 diskette in the external floppy drive.

5. Run the system generation program.

From the Pascal command line,

Press X

The screen displays:

Execute what file?

Type .D2/SYSGEN

Press [RETURN]

The screen displays:

Enter SYSGEN Password:

6. Enter the password.

Type HAI

Press [RETURN]

The password does not appear on the screen. The screen displays the main menu of the system generation program:

System Generation [x.xx]
Main Menu
(c) Copyright 1982, 1983, 1984 Corvus Systems, Inc.

- I - Initialize a New Drive
- M - Modify an Existing Drive
- D - Display Drives On Line

- H - Help
- E - Exit

Please select an option:

7. Select the option to
modify an existing drive.

Press M

The screen displays:

System Generation [x.xx]
Modify an Existing Drive

- M - Mix Apple III with Other Computers
using Constellation II
- A - Add Apple III Constellation II
converting Constellation I

- E - Exit

Please select an option:

8. **Select mix Apple III with other computers.**

Press M

The screen displays:

Please select drive to be modified.

Server number: [0]

9. **Select the server number.**

Enter the Omninet address of the mass storage system to be modified. After entering the Omninet address,

Press [RETURN]

The screen displays:

Drive number: [1]

10. **Select the drive.**

Press the correct number.

Press [RETURN]

The screen display is similar to:

Selected drive is slot 4, server 2, drive 1.

Please enter starting disk
address of system volumes:

**11. Enter the
starting disk address.**

Type the address noted in the subsection "Finding
a Free Area" and press [RETURN].

The screen display is similar to:

Blocks 6353 through 8153 will be overwritten.

OK to modify the drive? [Y/N]:

**12. Choose to
modify the drive.**

Press Y

Press [RETURN]

The screen displays a lengthy message indicating
that a boot file and a user were added, the volumes
A3SYS, A3BACK, and A3UTIL were intialized, and
several files were copied.

After this message is complete, the screen displays:

Insert volume: A3SMGR
in device: .D1
then press the ALPHA LOCK key twice

**13. Insert the A3SMGR diskette
in the diskette drive.**

Remove the A3C2.1 diskette from the internal floppy drive, and the A3C2.2 diskette from the external floppy drive.

Insert the A3SMGR diskette in the internal floppy drive.

Press the Alpha Lock key twice.

The screen then displays:

UPDATE [x.xx] Corvus Utility Update Program
(c) Copyright 1983, 1984 Corvus Systems, Inc.

Please insert the A3C2.1 diskette in the internal drive
Press <space> after inserting the diskette.

**14. Transfer the files
to the mass storage system.**

Generating the system requires transferring files from four diskettes: A3C2.1, A3C2.2, A3C2.3 and A3C2.4. The program prompts for each diskette by name. Insert each diskette in the internal floppy drive. Press [SPACE] after inserting each diskette. When the program is finished with the last diskette, the screen displays:

Space recovered.

Update completed.
Please Reboot.

**15. Reset the
drive.**

Reset your drive by turning it off and then back on again.
When only the ready light is on, go to the next step.

**16. Reboot
the computer.**

Remove the last diskette and reboot the computer with
the Apple III utilities diskette.

The network disk system now has Apple III
Constellation II software.

Now go to Chapter 4, "Making a Boot Diskette."

This page intentionally left blank.

MAKING A
BOOT DISKETTE | 4

It is easy to make a boot diskette for a user who will use his Apple III primarily to run the Corvus utilities. First, label a blank diskette, "Corvus boot diskette." Then use the Apple SOS copy volume command from the Device Handling Commands Main Menu to copy the A3SMGR diskette to the Corvus boot diskette. After all the files are copied to the Corvus boot diskette, the diskette is ready to be used to boot the Apple III. Make copies of the boot diskette for each network user. If you need instructions on how to copy a volume with Apple SOS, turn to your *Apple III Owner's Guide* provided by Apple.

If you already have a boot diskette for the Apple III and you want to keep your old SOS.DRIVER file because it contains special drivers then you must complete three tasks: (1) make a copy of the A3SMGR diskette and label this diskette "Corvus Boot Diskette"; (2) use the system configuration program to add the Corvus drivers, A3DRV.BOOT.CODE and A3DRV.SOS.CODE, to your existing SOS.DRIVER file (The Corvus drivers are on the A3C2.2 diskette.); (3) Replace the existing SOS.DRIVER file on the Corvus boot diskette with your SOS.DRIVER file. After completing these steps the boot diskette is finished. Make copies of the boot diskette for each network user. If you need instructions on how to use the system configuration program see the *Apple III Standard Device Drivers Manual*.

Where to go from here:

- o If you followed the steps in Chapter 2, and are building a new network, go to the section, "Setting Up a Network" in the *OmniDrive Setup Instructions*, then go to the the *Apple III System Manager Guide*.
- o If you followed the steps in Chapter 2, and are adding the OmniDrive to an existing network, go to the subsection "Connecting the Drive to the Network" in the *OmniDrive Setup Instructions*. Then go to the

Multiple Server Update Guide. When finished with the *Multiple Server Update Guide*, go to the *Apple III System Manager's Guide*.

- o If you followed the steps in Chapter 3, go to the *Apple III System Manager's Guide* to create volumes and users, and grant access.

**NAMES AND
PASSWORDS** | **A**

Disk server name: _____

Disk server password: _____

Drive name: _____

Drive password: _____