CentOS Stream 8 – SFTP Server

Version:	1.0.0
Created by:	cloudimg

Table of Contents

1.) Overview

This document is provided as a user guide for the CentOS Stream 8 – SFTP Server product offering on the Azure Marketplace. Please reach out to support@cloudimg.co.uk if any issues are encountered following this user guide for the chosen product offering.

2.) Access & Security

Please update the security group of the target instance to allow the below ports and protocols for access and connectivity.

Protocol	Type	Port	Description
SSH	TCP	22	SSH connectivity

3.) System Requirements

The minimum system requirements for the chosen product offering can be found below

Minimum CPU	Minimum RAM	Required Disk Space
1	1 GB	20 GB

4.) Connecting to the Instance

Once launched in the Azure Virtual Machines Service, please connect to the instance via an SSH client using the **azureuser** with the key pair associated at launch. Once connected as the **azureuser**, you will be able to **sudo** to the **root** user by issuing the below command.

Switch to the root user

```
sudo su -
```

5.) On Startup

An OS package update script has been configured to run on boot to ensure the image is fully up to date at first use. You can disable this feature by removing the script from /stage/scripts/ and deleting the entry in crontab for the root user.

Disable the OS update script from running on reboot

```
rm -f /stage/scripts/initial_boot_update.sh

crontab -e

#DELETE THE BELOW LINE. SAVE AND EXIT THE FILE.
@reboot /stage/scripts/initial_boot_update.sh
```

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6.) Filesystem Configuration

Please see below for a screenshot of the server disk configuration and specific mount point mappings for software locations.

```
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        451M     0  451M   0% /dev
tmpfs           469M     0  469M   0% /dev/shm
tmpfs           469M  6.3M  463M   2% /run
tmpfs           469M     0  469M   0% /sys/fs/cgroup
/dev/nvme0n1p2   38G  2.6G   33G   8% /
/dev/nvme1n1    9.8G   24K  9.3G   1% /sftp
/dev/nvme0n1p1  2.0G  143M  1.7G   8% /boot
tmpfs            94M     0   94M   0% /run/user/1002
```

Mount Point	Description
/boot	Operating System Kernel files
/sftp	SFTP Root

7.) Server Components

Please see below for a list of installed server components and their respective installation paths. The below versions are subject to change on initial boot based on the initial_boot_update.sh script finding new versions of the software in the systems package repositories.

Component	Version	Software Home
Cloud-Init	22.1-1	/etc/cloud
Azure CLI	2.53.1	/lib64/az

8.) Scripts and Log Files

The below table provides a breakdown of any scripts & log files created to enhance the useability of the chosen offering.

Script/Log	Path	Description

Initial_boot_update.sh	/stage/scripts	Update the Operating System with the latest updates available.
Initial_boot_update.log	/stage/scripts	Provides output for initial_boot_update.sh
sftp-admin-menu.sh	/stage/scripts	SFTP User Management Script (create / purge)

9.) Using System Components

Instructions can be found below for using each component of the server build mentioned in section 7 of this user guide document.

Azure CLI

Using Azure CLI – as any OS user.

```
az
```

Cloud-Init

Edit the /etc/cloud/cloud.cfg file to reflect your desired configuration. A link to the cloud-init official documentation can be found below for referencing best practise for your use case.

https://cloudinit.readthedocs.io/en/latest/

```
vi /etc/cloud/cloud.cfg
```

SFTP Server

The server has been preconfigured as an SFTP Server. A script to create and or delete SFTP users can be found in the /stage/scripts directory under the name: sftp-admin-menu.sh

Once the instance has successfully launched, and a successful connection via SSH or Systems Manager has taken place, please switch to the **root** user to run the below command to launch the management script.

```
. ./stage/scripts/sftp-admin-menu.sh
```

Please follow the menus available in the management script to create new users or purge old users where necessary.

All users when created can be found under the /sftp directory. This directory has been mounted as an additional EBS volume to allow for easy extension in the future. If you require the use of EFS in place of EBS storage, please reach out to support@cloudimg.co.uk and a best practise CloudFormation template can be provided to allow for the use of EFS.

cloudimg recommends the use of Filezilla as a client for connecting to the SFTP Server, you can download the client software for Windows, MacOS or Linux from the below URL.

https://filezilla-project.org/download.php?type=client