

CentOS Stream 8 – Apache HTTP Server

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Created by:	cloudimg

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1.) Overview

This document is provided as a user guide for the Alma Linux 8 – Neo4j 5 Community 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.



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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
HTTP	TCP	80	Apache HTTP Server Front end

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	462M	2%	/run
tmpfs	469M	0	469M	0%	/sys/fs/cgroup
/dev/nvme0n1p2	38G	2.8G	33G	8%	/
/dev/nvme0n1p1	2.0G	185M	1.7G	11%	/boot
/dev/nvme1n1	9.8G	37M	9.3G	1%	/var/www/html
tmpfs	94M	0	94M	0%	/run/user/0
tmpfs	94M	0	94M	0%	/run/user/1002

Mount Point	Description
/boot	Operating System Kernel files
/var/www/html	Apache HTTP Server 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
Apache HTTP Server	2.4.37	/etc/httpd
Azure CLI	2.53.1	/lib64/az



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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

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
```

Apache HTTP Server

The Apache HTTP Server has been configured to start on boot, please use the below commands to start, stop and check the status of the service.



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```
#Check the HTTP Server is running
systemctl status httpd

#Stop the HTTP Server
systemctl stop httpd

#Start the HTTP Server
systemctl start httpd
```

Once the HTTP Server status has started, you will be able to access the Apache front end via the below URL exchanging the values between <> to match that of your own instance.

<PRIVATE/PUBLICIP>:80



This page is used to test the proper operation of the HTTP server after it has been installed. If you can read this page it means that this site is working properly. This server is powered by [CentOS](#).

If you are a member of the general public:

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting [www.example.com](#), you should send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the webroot directory. Note that until you do so, people visiting your website will see this page, and not your content.

For systems using the Apache HTTP Server: You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

For systems using NGINX: You should now put your content in a location of your choice and edit the `root` configuration directive in the `nginx` configuration file `/etc/nginx/nginx.conf`.



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