CentOS Stream 8 – MongoDB 5 Community Edition

Version:	1.0.0
Created by:	cloudimg

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1.) Overview

This document is provided as a user guide for the CentOS Streams 8 – MongoDB 5 Community Edition 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
Custom TCP	TCP	27017	Default MongoDB Database port for remote 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
```

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

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  3.3G   32G  10% /

/dev/nvme1n1     9.8G  337M  9.0G   4% /var/lib/mongo

/dev/nvme0n1p1   2.0G  185M  1.7G  11% /boot

tmpfs             94M     0   94M   0% /run/user/1002
```

Mount Point	Description
/boot	Operating System Kernel files
/var/lib/mongo	MongoDB data directory

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
Mongo DB 5	5.0.9	/var/lib/mongo
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
mongo_db_admin_user_password.log	/stage/scripts	MongoDB admin database password file

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
```

MongoDB 5

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

```
#Check the MongoDB service is running

service mongod status


#Stop the MongoDB service

service mongod stop


#Start the MongoDB service

service mongod start
```

You can access the mongdb database server as the root user by referring to the instructions in the /stage/scripts/mongo_db_admin_user_password.log file.

```
mongo -u mdbadmin -p


#Enter the randomly generated password found in the
/stage/scripts/mongo_db_admin_user_password.log file
```

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