BDRSuite

Docker-Container Guide

About Vembu

Vembu Technologies is a leading software vendor offering backup and disaster recovery solutions to small, medium, enterprise businesses, and service providers. Vembu's flagship backup and DR software - **BDRSuite,** ensures the business continuity and disaster recovery of small to large scale IT infrastructures having virtual, physical machines, cloud workloads, and SaaS applications at an affordable price. The products under the suite can be deployed flexibly in any location like on-premise, offsite and the public cloud. The centralized monitoring and management user interface also make it very easy to monitor and manage large deployments with minimal effort.

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Introduction

This guide helps you to install the BDRSuite Backup Server on Docker; follow the procedure given below for the installation.

Before proceeding, make sure that you have already installed Docker on your host machine; if not refer to the steps in <u>Installing Docker on Ubuntu.</u> We have tested the Vembu BDR Server container on the docker service installed on Ubuntu OS 20.04 host machine.

By continuing further, you agree to the <u>END USER LICENSE AGREEMENT</u> of Vembu Technologies for using the BDRSuite Backup Server container in your environment.

Deploying BDRSuite Backup Server Container (Fresh Installation)

The following steps are based on the Docker engine running on **Ubuntu 20.04 OS**, you can try the same for any other **64-bit** operating system version of Ubuntu.

Important Note: *Always use docker commands with sudo or run in root user*.

Step 1: BDRSuite Backup Server and its backend database are officially available on the Docker Hub; pull those images using the following commands:

To pull Application container image:[**Ubuntu v20.04**]

docker pull vembubdr/bdr-latest:latest

To pull Database container image:[**PSQL v10.13**]

docker pull vembubdr/bdr-latest:psql-latest-new

Step 2: Note down the **IMAGE ID** of both application and database containers after running the following commands:

docker images vembubdr/bdr-latest:latest

docker images vembubdr/bdr-latest:psql-latest-new

Example: *9b9bde8b8940* [for BDR Server], *bd34fb12cf53* [for PSQL]

Step 3: Create a user-defined network, to avail the automatic service discovery, this will allow the containers to communicate using its name.

docker network create --subnet=172.18.0.0/16 vembu-network

Step 4: To check whether the vembu-network is created or not, run the following list command.

docker network ls

Step 5: Run the Database container, by invoking the below command.

docker run --name VembuDatabase --network vembu-network --ip 172.18.0.2 -p 5432:5432 -d -e POSTGRES_PASSWORD=admin -e POSTGRES_USER=postgres -e POSTGRES_DB=SGDatabase -v <Host_Volume_Path>:<Container_Volume_Path> <PSQL Image ID>

Example:

docker run --name VembuDatabase --network vembu-network --ip 172.18.0.2 -p 5432:5432 -d -e POSTGRES_PASSWORD=admin -e POSTGRES_USER=postgres -e POSTGRES_DB=SGDatabase -v pgdata:/var/lib/postgresql/data bd34fb12cf53

Step 6: To check whether the container is started or not, run the following list command.

docker container ls

Step 7: If you are using a different IP for the database container. Confirm the assigned IP by executing the following command and also the IP for future use.

docker inspect VembuDatabase | grep "IPAddress"

Example: *172.18.0.2*

Step 8: Run the VembuBDR container, by invoking the below command

docker run --name <VembuBDR550> --network vembu-network -ip 172.18.0.3 --add-host VembuDatabase:<DATABASE_IP_ADDRESS> --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v /<Host_Volume_Path>:<Container_Volume_Path> <BDR Server Image ID>

Example:

docker run --name VembuBDR550 --network vembu-network --ip 172.18.0.3 --add-host VembuDatabase:172.18.0.2 --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v /home/vembu/vembu:/vembu 9b9bde8b8940

Step 9: Connect the BDR Server container, by using the following command.

docker attach VembuBDR550

Step 10: Now start the BDRSuite Backup Server application using the below command

/etc/init.d/vembubdr start
/etc/init.d/vembuoffice365service start
/etc/init.d/vembugsuiteservice start

Step 11: Access your BDRSuite Backup Server web console by entering the following address in the web browser address bar.

http://<Host_IP_Address>:6060

Log in using the default 'username' as admin and 'password' as admin.

Upgrading the BDR Server container from v5.2.0 to v5.5.0

Below are the steps to upgrade the BDR server container version from v5.2.0 to v5.5.0.

Note: Make sure you have the older BDR Server and PSQL containers in an operable state.

We have named the old container as **VembuBDR5200** and the new container as **VembuBDR5500**

Step 1: BDR Server v5.5.0 container is officially available on the Docker Hub; pull v5.5.0 images using the following commands:

docker pull vembubdr/bdr-latest:latest

Step 2: Execute the following command and note down the IMAGE ID of the BDR Server containers

docker images vembubdr/bdr-latest:latest

Example: *7e1045421544* [for BDR Server]

Step 3: Take a backup of the configuration file from the old container to the docker host machine. Connect to your docker host and invoke the below commands,

docker cp VembuBDR5200:/home/vembubdr/Vembu/VembuBDR/plugin-data /vembu

docker cp VembuBDR5200:/home/vembubdr/Vembu/VembuBDR/conf/VEMBUBDR /vembu

docker cp VembuBDR5200:/home/vembubdr/Vembu/VembuBDR/conf/SGConfiguration.conf /vembu

Step 4: Stop your old BDR Server container by invoking the below command.

docker stop VembuBDR5200

Step 5: Launch the new version of the VembuBDR container using the below command.

docker run --name VembuBDR5500 --network vembu-network -ip 172.18.0.3 --add-host VembuDatabase:<DATABASE_IP_ADDRESS> --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v
<Host_Volume_Path>:<Container_Volume_Path> <BDR Server Image ID>

Example:

docker run --name VembuBDR5500 --network vembu-network --ip 172.18.0.3 --add-host VembuDatabase:172.18.0.2 --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v /home/vembu/vembu:/vembu 7e1045421544

Step 6: Execute the following command to restore the server-specific configurations backed up from the old container in step 1 to the new container.

docker cp /vembu/SGConfiguration.conf
VembuBDR5500:/home/vembubdr/Vembu/VembuBDR/conf

docker cp /vembu/plugin-data VembuBDR5500:/home/vembubdr/Vembu/VembuBDR

docker cp /vembu/VEMBUBDR
VembuBDR5500:/home/vembubdr/Vembu/VembuBDR/conf

Step 7: Restart the BDR Server container to make the changes effective.

docker restart VembuBDR5500

Step 8: Access your BDR Backup Server web console by entering the following address in the web browser address bar.

http://<Host_IP_Address>:6060

Log in using the default 'username' as admin and 'password' as admin.

Upgrading the BDR Server container from v5.1.0 to v5.2.0

Below are the steps to upgrade the BDR server container version from v5.1.0 to v5.2.0.

Note: Make sure you have the older BDR Server and PSQL containers in an operable state.

We have named the old container as **VembuBDR5100** and the new container as **VembuBDR5200**

Step 1: BDR Server v5.2.0 container is officially available on the Docker Hub; pull v5.2.0 images using the following commands:

docker pull vembubdr/bdr-latest:vembubdr-5200

Step 2: Execute the following command and note down the IMAGE ID of the BDR Server containers

docker images vembubdr/bdr-latest:vembubdr-5200

Example: *7e1045421544* [for BDR Server]

Step 3: Take a backup of the configuration file from the old container to the docker host machine. Connect to your docker host and invoke the below commands,

docker cp VembuBDR5100:/home/vembubdr/Vembu/VembuBDR/plugin-data /vembu

docker cp VembuBDR5100:/home/vembubdr/Vembu/VembuBDR/conf/VEMBUBDR /vembu

docker cp VembuBDR5100:/home/vembubdr/Vembu/VembuBDR/conf/SGConfiguration.conf /vembu

Step 4: Stop your old BDR Server container by invoking the below command.

docker stop VembuBDR5100

Step 5: Launch the new version of the VembuBDR container using the below command.

docker run --name VembuBDR5200 --network vembu-network -ip 172.18.0.3 --add-host VembuDatabase:<DATABASE_IP_ADDRESS> --privileged=true -i -t -d --device /dev/fuse -- privileged -p 6060:6060 -p 32004:32004 -v <Host_Volume_Path>:<Container_Volume_Path> <BDR Server Image ID>

Example:

docker run --name VembuBDR5200 --network vembu-network --ip 172.18.0.3 --add-host VembuDatabase:172.18.0.2 --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v /home/vembu/vembu:/vembu 7e1045421544

Step 6: Execute the following command to restore the server-specific configurations backed up from the old container in step 1 to the new container.

docker cp /vembu/SGConfiguration.conf VembuBDR5200:/home/vembubdr/Vembu/VembuBDR/conf

docker cp /vembu/plugin-data VembuBDR5200:/home/vembubdr/Vembu/VembuBDR

docker cp /vembu/VEMBUBDR VembuBDR5200:/home/vembubdr/Vembu/VembuBDR/conf

Step 7: Restart the BDR Server container to make the changes effective.

docker restart VembuBDR5200

Step 8: Access your BDR Backup Server web console by entering the following address in the web browser address bar.

http://<Host_IP_Address>:6060

Log in using the default 'username' as admin and 'password' as admin.

Upgrading the BDR Server container from v5.0.0.3 to v5.1.0

Below are the steps to upgrade the BDR server container version from v5.0.0.3 to v5.1.0.

Note: Make sure you have the older BDR Server and PSQL containers in an operable state.

We have named the old container as **VembuBDR5003** and the new container as **VembuBDR5100**

Step 1: BDR Server v5.1.0 container is officially available on the Docker Hub; pull v5.1.0 images using the following commands:

docker pull vembubdr/bdr-latest:vembubdr-5100

Step 2: Execute the following command and note down the IMAGE ID of the BDR Server containers

docker images vembubdr/bdr-latest:vembubdr-5100

Example: *be6b17fc72ee* [for BDR Server]

Step 3: Take a backup of the configuration file from the old container to the docker host machine. Connect to your docker host and invoke the below commands,

docker cp VembuBDR5003:/home/vembubdr/Vembu/VembuBDR/plugin-data /vembu

docker cp VembuBDR5003:/home/vembubdr/Vembu/VembuBDR/conf/VEMBUBDR /vembu

docker cp VembuBDR5003:/home/vembubdr/Vembu/VembuBDR/conf/SGConfiguration.conf /vembu

Step 4: Stop your old BDR Server container by invoking the below command.

docker stop VembuBDR5003

Step 5: Launch the new version of the VembuBDR container using the below command.

docker run --name VembuBDR5100 --network vembu-network -ip 172.18.0.3 --add-host

VembuDatabase:<DATABASE_IP_ADDRESS> --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v
<Host_Volume_Path>:<Container_Volume_Path> <BDR Server Image ID>

Example:

docker run --name VembuBDR5100 --network vembu-network --ip 172.18.0.3 --add-host VembuDatabase:172.18.0.2 --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v /home/vembu/vembu:/vembu be6b17fc72ee

Step 6: Execute the following command to restore the server-specific configurations backed up from the old container in step 1 to the new container.

docker cp /vembu/SGConfiguration.conf VembuBDR5100:/home/vembubdr/Vembu/VembuBDR/conf

docker cp /vembu/plugin-data VembuBDR5100:/home/vembubdr/Vembu/VembuBDR

docker cp /vembu/VEMBUBDR VembuBDR5100:/home/vembubdr/Vembu/VembuBDR/conf

Step 7: Restart the BDR Server container to make the changes effective.

docker restart VembuBDR5100

Step 8: Access your BDR Backup Server web console by entering the following address in the web browser address bar.

http://<Host_IP_Address>:6060

Log in using the default 'username' as admin and 'password' as admin.

Upgrading the BDR Server container from v4.2.0.1 to v5.0.0.3

Below are the steps to upgrade the BDR server container version from v4.2.0.1 to v5.0.0.3.

Note: Make sure you have the older BDR Server and PSQL containers are in an operable state.

We have named the old container as **VembuBDR4201** and the new container as **VembuBDR5003**

Step 1: BDR Server v5.0.0.3 container is officially available on the Docker Hub; pull v5.0.0.3 images using the following commands:

docker pull vembubdr/bdr-latest:vembubdr-5003-u3

Step 2: Execute the following command and note down the IMAGE ID of the BDR Server containers

docker images vembubdr/bdr-latest:vembubdr-5003-u3

Example: *a773deb34aa1* [for BDR Server]

Step 3: Take a backup of the configuration file from the old container to the docker host machine. Connect to your docker host and invoke the below commands,

docker cp VembuBDR4201:/home/vembubdr/Vembu/VembuBDR/plugin-data /vembu

docker cp VembuBDR4201:/home/vembubdr/Vembu/VembuBDR/conf/VEMBUBDR /vembu

docker cp VembuBDR4201:/home/vembubdr/Vembu/VembuBDR/conf/SGConfiguration.conf /vembu

Step 4: Stop your old BDR Server container by invoking the below command.

docker stop VembuBDR4201

Step 5: Launch the new version of the VembuBDR container using the below command.

docker run --name VembuBDR5003 --network vembu-network -ip 172.18.0.3 --add-host

VembuDatabase:<DATABASE_IP_ADDRESS> --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v
<Host_Volume_Path>:<Container_Volume_Path> <BDR Server Image ID>

Example:

docker run --name VembuBDR5003 --network vembu-network --ip 172.18.0.3 --add-host VembuDatabase:172.18.0.2 --privileged=true -i -t -d --device /dev/fuse --privileged -p 6060:6060 -p 32004:32004 -v /home/vembu/vembu:/vembu a773deb34aa1

Step 6: Execute the following command to restore the server-specific configurations backed up from the old container in step 1 to the new container.

docker cp /vembu/SGConfiguration.conf VembuBDR50:/home/vembubdr/Vembu/VembuBDR/conf

docker cp /vembu/plugin-data VembuBDR5003:/home/vembubdr/Vembu/VembuBDR

docker cp /vembu/VEMBUBDR VembuBDR5003:/home/vembubdr/Vembu/VembuBDR/conf

Step 7: Restart the BDR Server container to make the changes effective.

docker restart VembuBDR5003

Step 8: Access your BDR Backup Server web console by entering the following address in the web browser address bar.

http://<Host_IP_Address>:6060

Log in using the default 'username' as admin and 'password' as admin.

Limitations:

1) Backup for AWS is not supported in the docker build of BDRSuite

2) Tape Backup option is not supported for docker build

3) Instant Boot VM and Disk-mount restore options are not supported

4) Application item -level recovery is not supported for image-level backups in docker build

5) Restore to Microsoft Azure feature is not supported for docker build

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Contact Support

In case of additional queries regarding upgrades, contact our Vembu Support team at vembu-support@vembu.com.