



Linux OffsiteDR Server Installation

VEMBU TECHNOLOGIES

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Linux OffsiteDR Server Installation

Vembu OffsiteDR in Linux machines is currently supported for below versions (Please make sure that you are using any one of the below version).

Supported Server Versions:

- Ubuntu 14.04 LTS (64 Bit)
- Ubuntu 12.04 LTS (64 Bit)

To install Vembu offsite Backup Server on Linux machines follow the steps given below:

1. Copy the build link of Vembu OffsiteDR server from www.vembu.com/builds/v310 under the tab Vembu OffsiteDR and download using wget command; Make sure you are a root user (use "sudo su" command to be as an root user). Or you can download the installer to any Windows machine and move the installer to Linux machine by using FTP/WinSCP.

```
root@vembu-PowerEdge-R415:/home/VembuOffsiteDR# wget https://sg-build-release.s3.amazonaws.com/products/vembu/VembuOffsiteDR/VembuOffsiteDR_OnlineInstaller.sh
VembuOffsiteDR/pro/20151113310/GA/Linux/OnlineInst
```

2. Once you execute wget command you will have "VembuOffsiteDR_OnlineInstaller.sh" in the download location.

```
root@vembu-PowerEdge-R415:/home/VembuOffsiteDR# ls -l
total 112
-rw-r--r-- 1 root root 111024 Nov 14 00:28 VembuOffsiteDR_OnlineInstaller.sh
```



3. Run installer by using “sh”.

For ex: #sh VembuOffsiteDR_OnlineInstaller.sh

```
root@vembu-PowerEdge-R415:/home/VembuOffsiteDR# sh VembuOffsiteDR OnlineInstaller.sh
```

4. After initiating the installer, it will check for dependent packages and request for a confirmation from your side. You can enter “y” to proceed further.

Please find the packages download by Vembu OffsiteDR application here,

- MySql RDMS (5.5.40)
- MySql Connector (3.51.27)
- ODBC Driver (2.2.14)
- MongoDB (2.6.8)
- Vembu OffsiteDR Server (3.1.1)
- If SELinux is enabled, it will be set to Permissive mode. This change is needed to run MySql as service.

```
#####
WELCOME TO THE VEMBU OffsiteDR SERVER INSTALLATION
#####

This installer will download and install,

1. MySQL RDEMS (5.5.40)
2. MySQL Connector (3.51.27)
3. ODBC driver (2.2.14)
4. MongoDB (2.6.8)
5. Vembu OffsiteDR Server (3.1.0)
6. If SELinux is enabled, it will be set to Permissive Mode. This change is needed for MySQL Server to run as a service.

#####

Do you want to proceed [y/n]: [ ]
```

5. The installer will ask your permission to download and install MySQL and MySQL

```
Do you want to proceed [y/n]: y
#####
          About Compatible Relational Database Management System [RDBMS]
#####
MySQL Community Server is a free software that is licensed by Sun Microsystems Inc., or its successors, under the GNU General
Public License version 2. A link to the copy of that license is available below. You can find the link to a copy of the comp
lete corresponding source code below. Do not install MySQL Community Server , if the terms of the said license are not accep
table to you.

MySQL Connector/ODBC driver is a free software that is licensed by Sun Microsystems Inc., or its successors, under the GNU Ge
neral Public License version 2. A link to the copy of that license is available below. You can find the link to a copy of the
complete corresponding source code below. Do not install MySQL Connector/ODBC driver, if the terms of the said license are n
ot acceptable to you.

GNU General Public License v2 <http://www.gnu.org/licenses/gpl-2.0.html>

MySQL Community Server source code <http://downloads.mysql.com/archives.php?p=mysql-5.1&v=5.5.20>

If you would like to download and install Vembu OffsiteDR Server and MySQL Community Server and MySQL Connector/ODBC driver,
provide input 'yes' and proceed with Vembu OffsiteDR Server and MySQL Community Server and MySQL Connector/ODBC driver down
load and installation.

#####
Do you want to proceed [y/n]: █
```

6. Here you need to specify the location where you want to store MySQL and Mongo database metadata files. Vembu OffsiteDR will basically require 10% of the backup data storage for the internal meta data store. Hence please assess and configure a storage medium appropriate to the storage requirements. Besides please ensure your drives have higher I/O performance. Kindly specify the path and click Enter. We recommend you to use dedicated drive for this location instead of

```
Vembu OffsiteDR will basically require 10% of the backup data storage for the internal meta-data store. Hence please assess a
nd configure a storage medium appropriate to the storage requirements. Besides please ensure your drives have higher I/O perf
ormance.

Please specify the path.
/home/VembuOffsiteDR █
```



7. Then installer will check for MySQL Package Compatibility and then it starts Downloading MySQL Server and Connector/ODBC driver packages as shown below.

```
*****
Checking For MySQL Package Compatibility
*****
Please be patient. It could take a few minutes.

MySQL-server      : not installed
MySQL client      : not installed
MySQL-connector-odbc : not installed
unixodbc          : not installed

Package Compatibility check completed successfully.

*****
Downloading MySQL Server and Connector/ODBC driver packages
*****

--2015-10-01 16:10:22-- http://s3-us-west-1.amazonaws.com/sg-build-release/products/vembu/vembuBDR/pro/mysqlrpm/mysql-debian-ubuntu-64bit.zip
Resolving s3-us-west-1.amazonaws.com (s3-us-west-1.amazonaws.com)... 54.231.237.77
Connecting to s3-us-west-1.amazonaws.com (s3-us-west-1.amazonaws.com)|54.231.237.77|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 197897721 (189M) [application/zip]
Saving to: âmysql-debian-ubuntu-64bit.zipâ

 2% [=>] 43,27,918  37.5KB/s  eta 70m 48s
```

8. Before completing MySQL installation, the installer asks you to set MySQL password for the MySQL root user. Enter password and confirm password to proceed further and keep it safe for further use. By default we recommend "admin".

```
*****
Setting MySQL password for 'root' user
*****
Enter password:

Confirm password:
MySQL 'root' user password has been successfully set.

*****
MySQL Configuration Details :
data-directory : /home/VembuOffsiteserv/MySQL
hostname       : localhost
userName      : root
password      : admin
port          : 3306
socket        : /tmp/mysql.sock
*****

*****
Creating backup or replication server database
*****

Database "SGDatabase" is successfully created.
```



9. In the Next step installer will install MySQL connector ODBC and it will check the test connectivity between ODBC-Driver and MySQL-Server. On success it will show SQL>. Kindly press Enter to continue.

```
*****
Installing MySQL-connector-odbc
*****
--2015-10-01 17:13:23-- http://s3-us-west-1.amazonaws.com/sg-build-release/products/storegrid/sp/201311600/mysql-connector-odbc-3.5
Resolving s3-us-west-1.amazonaws.com (s3-us-west-1.amazonaws.com)... 54.231.237.77
Connecting to s3-us-west-1.amazonaws.com (s3-us-west-1.amazonaws.com)|54.231.237.77|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6415310 (6.1M) [application/x-gzip]
Saving to: 'mysql-connector-odbc-3.51.27-linux-x86-64bit.tar.gz'

100%[=====]
2015-10-01 17:13:48 (252 KB/s) - 'mysql-connector-odbc-3.51.27-linux-x86-64bit.tar.gz' saved [6415310/6415310]

-e
mysql-connector-odbc-3.51.27-linux-x86-64bit.tar.gz is successfully installed.

*****
Installing Unixodbc
*****
Installing UnixODBC for 64-bit. It may take few minutes.
Please be patient ....

*****
Test Connectivity between "ODBC-driver" and "MySQL-Server"
*****

On success it will show SQL> prompt. Type quit or press enter to exit.

+-----+
| Connected! |
| sql-statement |
| help [tablename] |
| quit |
|-----+
SQL>
```

10. Once you click Enter. Installer asks you to proceed MongoDB installation process. Enter "y" to proceed MongoDB installation.

```
Do you want to install MongoDB Now ? Enter [y/n] : y
```



11. Accept MongoDB license agreement and enter “y” to install MongoDB

```
#####
                          About MongoDB
#####

MongoDB is a free software that is licensed by 10gen Inc., under the GNU Affero General Public License 2.
A link to the copy of that license is available below. You can find the link to a copy of the complete corresponding source code below.

Do not install MongoDB, if the terms of the said license are not acceptable to you.

GNU Affero General Public License v3 <http://www.gnu.org/licenses/agpl-3.0.html>
MongoDB source code <http://www.mongodb.org/display/DOCS/Source+Code>

#####

Do you want to proceed to install MongoDB ? say [y/n] : y █
```

12. Enter “y” to start Vembu OffsiteDR server installation.

```
Do you want to install Vembu OffsiteDR's backup server Now ? say [y/n] : y █
```

13. Enter “yes” or “y” to start downloading Vembu OffsiteDR server application.

```
#####
Vembu OffsiteDR 3.1.0 Server installation
#####

=====
|
| We will now take you through the Vembu OffsiteDR Server Installation Process. |
| Vembu OffsiteDR is proprietary software of Vembu Technologies Inc and is   |
| licensed under its own terms which you are required to accept for this    |
| installation.                                                                |
|
| If you would like to install Vembu OffsiteDR, Please enter yes to proceed. |
|
=====
Do you want to proceed [yes/no]: y █
```

14. Once download is completed. The Vembu OffsiteDR Backup server build installation starts automatically and asks to choose type of installation. "Option 1" is to Install Vembu OffsiteDR by creating a new Vembu OffsiteDR user account with root privileges or "Option 2" to install Vembu OffsiteDR in the current user and proceed with the installation. By default we recommend to choose Option1.

```
*****
Welcome to the installation setup of Vembu OffsiteDR
*****

*****
Choose Vembu OffsiteDR installation type
*****

You can perform two types of installations :

 1 - Install Vembu OffsiteDR by creating a new vembuoffsitedr user account with root privileges.

    Select this installation type if you would like to configure backup
    of other user files, system files, mysql database files etc. in the system.
    Note that Vembu OffsiteDR will be installed as a daemon process and will
    automatically start when the system boots up.
    You would need to login as root to install Vembu OffsiteDR
    for this type of installation. This type of installation will create
    "vembuoffsitedr" user with non-root privileges and install the
    Vembu OffsiteDR in "/home/vembuoffsitedr" directory.

 2 - Install Vembu OffsiteDR in the current user.

    Select this installation type if you would like to install Vembu OffsiteDR
    in the current user directory with current user privileges. You will be asked to specify
    the directory in which Vembu OffsiteDR should be installed later during the installation.
    Note that Vembu OffsiteDR will be installed in the current user directory and has to be
    manually started everytime the machine is rebooted.

*****

Please enter your option [1 or 2] 1
```

15. If you have selected "Option 1" installer will create new Vembu OffsiteDR user. Enter Password so that Vembu OffsiteDR user will be created as shown below

```
Please enter your option [1 or 2] 1
*****
Creating vembuoffsitedr user ...

Enter Password for the vembuoffsitedr user
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully

vembuoffsitedr User Created Successfully
*****
```



16. Once user is created, the installer shows the License, kindly go through the License Terms carefully. If you agree enter "y" to proceed. Then it will ask to create directory for the installation path. Enter "y" to proceed.

```
Do you agree to the above license terms? [y / n] y

/home/vembuoffsitedr directory does not exists. Create it now?
Please type yes(y) or no(n) [y / n] y
```

17. Give a unique Vembu OffsiteDR ID to identify your machine else it will proceed with hostname. If you want to identify your machine name other than host name, Enter "y" and give Vembu OffsiteDR ID and press Enter to continue as shown below (Example : OffsiteDRserver)

```
*****
Vembu OffsiteDR ID is the unique name with which your Vembu OffsiteDR installation is
identified. By default, it takes your machine name as the Vembu OffsiteDR ID. But we
recommend giving your email id as the Vembu OffsiteDR ID since your email ID is globally unique.
*****

Do you want to identify your machine name other than hostname "vembu-PowerEdge-R415" [y/n]
y

Enter Vembu OffsiteDR ID for Vembu OffsiteDR
VembuOffsiteDR
```

18. After giving Vembu OffsiteDR ID, installer asks your permission to create repository. Enter "y" to create repository now or Enter "n" to create it later, after installing the backup server. If you want to create now press "y" and click Enter.

```
#####
|                                     |
|           Welcome to Repository Creation!!           |
|       Repository will be the storage for your agent's backup data.       |
|       Repository is created by grouping multiple partitions so as to scale |
|           your volumes. Option chosen here will be set as                 |
|           the primary volume of Default Repository.                 |
|                                     |
|       You can configure the repository settings now or later.             |
|       If you choose the option 'n', then You need to configure the       |
|           repository settings once you logged into your                 |
|           Backup Server / Replication Server webconsole.                 |
|                                     |
|#####|
|
| Would you like to create Repository Now ? [y/n]: |
| y |
```



19. Once you press enter, installer will show the list of volumes present in your machine. Kindly choose one volume by entering corresponding number. Click number and press Enter to continue (Example : Enter 1)

```
Volumes with free space of 5GB or more

  Mounted On          Total Space    Available Space
1 /                    231G          212G
2 /dev                7.9G          7.9G
3 /run/shm            7.9G          7.9G
df: /run/user/1000/gvfs: Permission denied

Please choose any one of volume 1
```

20. Once you click Enter, the repository created successfully and the installer asks for Vembu OffsiteDR Web Console Authentication as shown below. Kindly give username and password through which you can access your Server Web Console. By default we recommend username and password as "admin". Now press Enter to continue. Once you click Enter, Vembu OffsiteDR Web console user will be created successfully.

```
##### Configured Repository Details #####
#####
Repository Name :      Default_Repo
Volume Path      :      /dev/sgstorage/Default_Repo

#####

You have configured the default repository.
##### Default Repository configured successfully #####
#####

*****

Vembu OffsiteDR Web Console Authentication

Enter Username and password for Vembu OffsiteDR Web Console.
This is required while starting the Vembu OffsiteDR Web Console.

Enter Username :  admin

Enter Password :

Re-type Password :

Vembu OffsiteDR Web Console user created.
```



21. Now installer asks you to change ports from default value. If you want to change click "y" else "n". By default we recommend to click "n" and continue. Kindly go through the usage of individual ports mentioned below.

```
*****
Backup Server Port is used by Vembu OffsiteDR to connect the server. UI Communi
cation Port
is used for communication between Vembu OffsiteDR Web console and Vembu Offsite
DR Application.
You can configure these ports manually.
By default the value of
  1. Backup Server Port is 32004
  2. UI Communication Port is 32005.
*****
Do you want to change these ports from default value [y/n]
n
```

- a) Backup Server Port is the port through which the installed Vembu OffsiteDR client will backup the data to the backup server. The default value is 32004.
- b) UI Communication Port is the port through which Vembu OffsiteDR Apache/PHP modules communicate with Vembu OffsiteDR to serve UI requests from the Vembu OffsiteDR Web Console. The default value is 32005.
- c) HTTPS Port is the port used to access the Vembu OffsiteDR Web console in a secured manner through HTTPS protocol. Default value is 6061.
- d) Enable HTTPS: HTTPS Port is the secure web console port through which you can access the Vembu OffsiteDR web console in secure manner. You should enable "Enable HTTPS" option to edit this value. If you have enabled HTTPS option, then you can access the Vembu OffsiteDR web console through `https://<machine name>:<HTTPS port> URL`

22. Once the installation is complete you will be asked to start the Vembu OffsiteDR server as Daemon process. If you have not started Vembu OffsiteDR as daemon process you can start Vembu OffsiteDR using “sh startVembuOffsiteDR.sh” command and “sh stopVembuOffsiteDR.sh” to stop Vembu OffsiteDR from the Vembu OffsiteDR installation location. Or else if you want to start the Vembu OffsiteDR immediately, enter “y” to proceed as shown below.

```
Vembu OffsiteDR has been successfully installed!
*****

Installation Details:
*****

Installation Directory      : /home/vembuoffsitedr
Apache Port                : 6060

Default Repository Configuration
Repository Name            : Default_Repo
Storage Path               : /sgstorage/Default_Repo

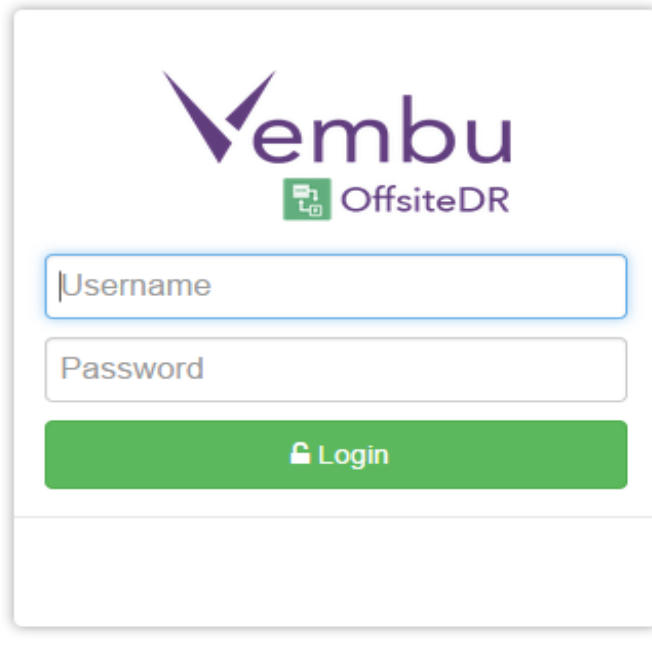
Script to start Vembu OffsiteDR      : /home/vembuoffsitedr/Vembu/VembuOffsiteDR/startVembuOffsiteDR.sh
Script to stop Vembu OffsiteDR       : /home/vembuoffsitedr/Vembu/VembuOffsiteDR/stopVembuOffsiteDR.sh
Vembu OffsiteDR Web Console URL     : https://vembu-PowerEdge-R415:6061

Adding system startup for /etc/init.d/vembuoffsitedr ...
/etc/rc0.d/K99vembuoffsitedr -> ../init.d/vembuoffsitedr
/etc/rc1.d/K99vembuoffsitedr -> ../init.d/vembuoffsitedr
/etc/rc6.d/K99vembuoffsitedr -> ../init.d/vembuoffsitedr
/etc/rc2.d/S98vembuoffsitedr -> ../init.d/vembuoffsitedr
/etc/rc3.d/S98vembuoffsitedr -> ../init.d/vembuoffsitedr
/etc/rc4.d/S98vembuoffsitedr -> ../init.d/vembuoffsitedr
/etc/rc5.d/S98vembuoffsitedr -> ../init.d/vembuoffsitedr
Vembu OffsiteDR installed as daemon process in /etc/init.d/vembuoffsitedr
Do you want to start Vembu OffsiteDR as daemon process now ? Please type Yes(y) or No(n): [ y / n ] y
```

23. Once you click “y”, Vembu OffsiteDR server installation will complete successfully.

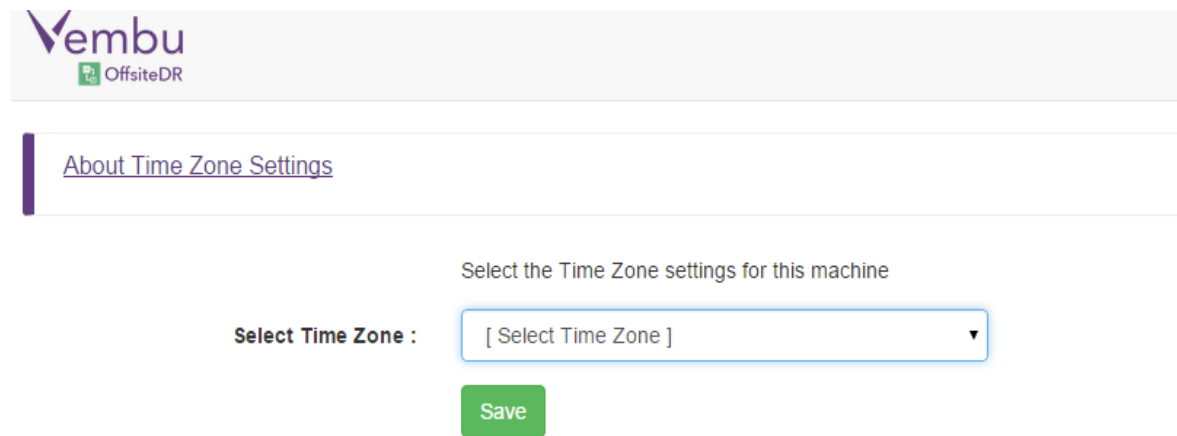
To access the backup server web console from a local machine, then type “http://localhost:6060/” in the url by launching a web browser (FF, IE, Chrome etc).

Or if you want to access it from other machine running on same LAN then type “http://machine'sIP:6060”. The Vembu OffsiteDR login console is shown as below.



The image shows a login form for Vembu OffsiteDR. At the top is the Vembu logo, which consists of a stylized 'V' followed by the word 'embu' in a sans-serif font. Below the logo is a green square icon with a white 'L' and 'O' inside, followed by the text 'OffsiteDR'. The form contains two input fields: 'Username' and 'Password'. Below these fields is a green button with a white lock icon and the text 'Login'.

24. Enter username and password to login, once you login timezone settings page is shown.



The image shows the 'About Time Zone Settings' page in the Vembu OffsiteDR interface. At the top left is the Vembu logo. Below it is a navigation bar with a link labeled 'About Time Zone Settings'. The main content area has the heading 'Select the Time Zone settings for this machine'. Below this heading is a label 'Select Time Zone :' followed by a dropdown menu with the text '[Select Time Zone]'. Below the dropdown menu is a green button labeled 'Save'.

25. Click "save" and proceed. Now storage management page is shown, if you have already selected the storage, then it's ok otherwise select the storage location and configure backups successfully.

About Storage Management

In this page you will see the options to add storage drives to your Vembu OffsiteDR server. If the storage drives are directly attached to the Vembu OffsiteDR server, you will see them listed below. If not, you have the option to add a network drive and have the backup data stored in that. When the backup data is filled in the primary storage drive, it will automatically spill over to the next storage drive attached to the Vembu OffsiteDR server.

Please Note: Once when you update a storage drive to the Vembu OffsiteDR server, you cannot remove or modify it.

Server Dashboard >

Storage Management - Add new disks to store backup data			
Storage Volumes	Total Space	Free Space	Backup Location
<input checked="" type="checkbox"/> C:\	39.66 GB	27.67 GB	C:/sgstorage/

Edit Add Network Drive

***For any other details please contact our support team through:
" vembu-support@vembu.com ".***

