

# Bacula Backups

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## Backup Server Setup (via automation)

USEFUL LINKS:

[https://kb.ukfast.net/Backup\\_Server\\_Install](https://kb.ukfast.net/Backup_Server_Install)

<https://linuxinstaller-man4.devops.ukfast.co.uk/dashboard/>

<https://linuxinstaller-man5.devops.ukfast.co.uk/dashboard/>

<https://awx.devops.ukfast.co.uk/#/home>

All steps here are done within TechDB - specifically on the SID page for the backup server, unless otherwise specified.

If this is a reinstall then you first need to schedule maintenance and task DC to replace the disks

```
server type: "backup server"
server subtype: "Bacula v9 Server"
Status: Awaiting Installation
Role: "Backup Server"
OS type: Ubuntu 20.04 x86_64
```

Add the OS > Software Installed > Select Ubuntu 20.04 x86\_64 and Right Click > Add

Also remove any OS that is already present (Only for reinstalls)

get networks to assign you an IP Address and fill in the Hostname (not needed for reinstall)

Hardware > Configuration > Model > This needs to be set to the chassis (Most will be R320 - won't need changing for a reinstall unless chassis has been swapped)

The server must have a rack switch AND a backup switch connection (backup switch MUST be Gigabit)

Set the vlan to the installer vlan for the relevant datacentre: [MAN4: 516, MAN5: 316]

Click Save Edits  
Click Configure Switch  
Click Reset Server OS  
deselect firewall information - this is for shared backup servers, these are not Firewalled

Select Save Edits

Open the virtual console in DRAC

Click Install/Re-install OS to start automation, you can watch the steps in automation history and use DRAC too  
Reboot server

When server is booting hit f2 to go to system setup then System BIOS > Boot Settings > Change from BIOS to UEFI, can then exit this menu and server will reboot  
While its booting hit f11 to go into the Boot Manager > UEFI Boot menu > NIC 1  
After that then automation will do the rest for you (hopefully)

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## Bacula Client Setup

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## Troubleshooting Bacula

### Bacula Networking

#### BAC Address

Firstly, check the client server has a bacula IPv6 address.

```
ip a
```

Will look something like the following (note the 'BAC' present around the middle of this address)

```
2a02:22d0:bac:0:3617:ebff:fef1:1f8
```

If the server does not have a v6 address, we need to check the backup NIC config and then try to restart the backup NIC.

## IPv6 Network Restrictions

Ensure that the ip6tables service isn't running:

```
Systemctl status ip6tables
```

Check the ruleset:

```
ip6tables -S
```

Add required rules for Bacula IPv6 networking over ports 9102 and 9103:

```
ip6tables -I INPUT -i eth1/em2 -j ACCEPT
ip6tables -I OUTPUT -p tcp --dport 9102 -j ACCEPT
ip6tables -I OUTPUT -p tcp --dport 9103 -j ACCEPT
service ip6tables save && service ip6tables restart
```

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## Bacula-fd Configuration

Revision #4

Created 2024-06-05 01:14:15 UTC by Daniel

Updated 2024-06-05 01:25:25 UTC by Daniel