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How to automate database backups with backupninja











Your databases need to be backed up with regularity. Learn how to do that with the help of the Linux tool backupninja.



There are a number of routes to this success, all of which will employ various moving parts. One tool I prefer to use for my database backups is backupninja. This application is a command line

tool that does an outstanding job of doing daily automated backups, so you don't have to worry about losing everything, should disaster strike.

Let's walk through the process of installing and using backupninja. **Data Center Must-Reads** I'll demonstrate on an instance of Ubuntu Server 16.04 running 8 data center predictions for MySQL. **Note:** backupninja can back up more than just MySQL; it can also work with the following and more: 2020: Automation, edge

 PostgreSQL rdiff

maildir

makecd

rsync

up those databases.

- Installing backupninja
- To install backupninja, you need to log into your Ubuntu Server and issue the following

commands:

sudo apt-get update sudo apt-get install backupninja duplicity rdiff-backup

Setting up backupninja

SEE: End user data backup policy (Tech Pro Research)

create a new backup (Figure A), select New, tap down to OK, and hit Enter on your keyboard.

main menu

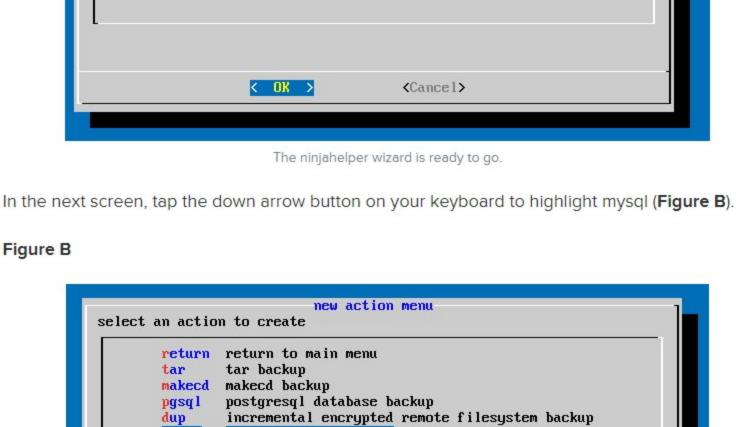
quit leave ninjahelper

create a new backup action

Once this completes, you are ready to set up your automated backup.

Figure A

Select a backup action for more options, or create a new action:



(Cancel)

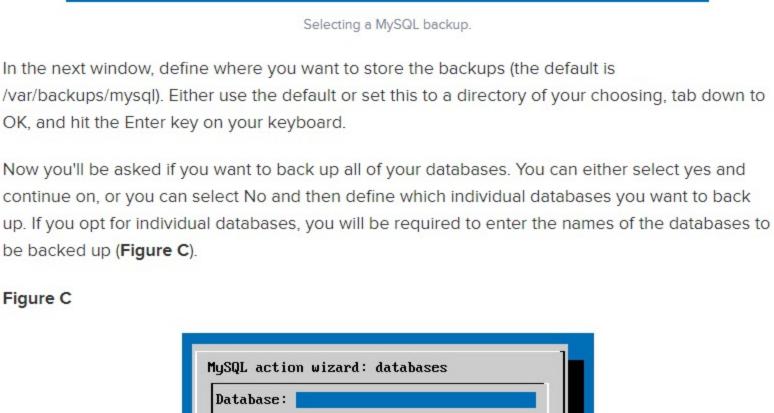
general hardware and system info rdiff incremental remote filesystem backup

mysql database backup

ysql

Figure C

Figure D



Database: Database: Database: Database:

Database:

Database:

Database:

Database:

Database:

storage size is smaller. Use the arrow keys on your keyboard to highlight an option and then tap the spacebar to enable the option. After you make your selections, tab down to OK, and hit Enter.

We'll go with password. Select the Password option, tab down to OK, and hit Enter. In the next

backed up). After you type that user, tab down to OK and hit Enter. In the next window, type the

Now you must select the options for your MySQL backup (Figure D). I suggest enabling sqldump

and compress (if your databases are large), as that backup will be more compatible and the

window, enter the MySQL user (one that has full privileges to access all the databases to be

MySQL action wizard check options [] qldump create a backup using mysqldump (more compat).
[] hotcopy create a backup using mysqlhotcopy (faster).
[] compress the sql output files

MySQL user password, tab down to OK, and hit Enter.

< <u>O</u>K > <Cancel> MySQL options for backupninja. Next you must select a backup action. By default, backupninja will create a numbered action that is next in line for whatever other backups you have; so, if you already have 10.mysql, the wizard will create the next action to be 20.mysl. The actions are executed in numerical order, which

means 10.mysql will execute before 20.mysql. You can manually create a new backup action by

selecting new, tabbing down to OK, and hitting Enter. The new actions you can create include:

tar: create a tar backup

Figure E

- create a new backup action quit leave ninjahelper
- < OK >

Selecting the backup action to use. The next window will allow you to go back to the main window, view or edit the backup

configuration, disable the action, change the filename for the action (backup), run the action, do a

test run of the action, or remove the action. I highly recommend allowing backupninja to do a test

<Cancel>

A simple backup solution If you're looking for an easy way to set up an automated database backup for your data center, look no further than backupninja. It's a dependable, free, and open source solution to a critical

component of your data center. Your company's executives will thank you. Data Center Trends Newsletter DevOps, virtualization, the hybrid cloud, storage, and operational efficiency are just some of the data

Also see

- How to set up passwordless authentication for MySQL (TechRepublic)
- How to install a LAMP stack on CentOS (TechRepublic)

- 7 networking predictions for computing, Wi-Fi 6, more Server virtualization best practices and tips on what Quantum computing: Seven truths you need to know
- The backupninja application comes with a handy wizard that will help you set up your backup. From the terminal window, issue the command *sudo ninjahelper*. When you see the prompt to
- < OK > (Cancel) Naming individual databases for backup. The next step is choosing an authentication method from three options: User: a standard Linux user Password: specify a MySQL user and password Debian: use default mysql user debian-sys-main
- makecd: create a makecd backup pgsql: create a PostgreSQL backup dup: create an incremental encrypted remote filesystem backup mysql: create a MySQL backup sys: create a general hardware and system information backup rdiff: create an incremental remote filesystem backup Since we already know we're creating a MySQL backup, we'll select the default option (Figure E), tab down to OK, and hit Enter. Your setup is complete.

Select a backup action for more options, or create a new action:

/etc/backup.d/20.mysql

run of your newly created action, so you can be sure it works as expected. Your MySQL backup is set and will start running daily.

center topics we'll highlight. Delivered Mondays and Wednesdays Sign up today

- How to create and populate a database in MySQL (TechRepublic)
- How to quickly audit a Linux system from the command line (TechRepublic) Linux 2017: With great power comes great responsibility (ZDNet)