

# backup

how phpbu can help

# about me

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PHP since <2000

@movetodevnull



Quotes

„I know i should backup, but i don't“

– Scott Forstall

„The most common backup is: do nothing!“

– Free BDS Manual

# backup tasks

- copy data
- check copy
- sync data
- cleanup local backup space
- notification if something goes wrong

```
backup.sh x
1  #! /bin/bash
2
3  TIMESTAMP=$(date '+%Y%m%d-%H%M%S')
4
5  mysqldump --all-databases | bzip2 > /backup/project/mysql/$TIMESTAMP.sql.bz2
6  find /backup/project/mysql -type f -name "*.bz2" -mtime +20 | xargs -r rm
7
8  cd /var/www/project/upload && tar cjf /backup/project/upload/$TIMESTAMP.tar.bz2 .
9  find /backup/project/uploads -type f -name "*.bz2" -mtime +13 | xargs -r rm
10
```

backup quick and dirty

# shell is bad

- It's hard to debug
- It's not object oriented, it doesn't have Exceptions
- It's hard to test
- It encourages code duplication



```
<backup>
  <source type="mysqldump"/>
  <target dirname="/backup/project/mysql" filename="mysql-%Y%m%d-%H%i.sql" compress="bzip2"/>
  <cleanup type="outdated">
    <option name="older" value="3W"/>
  </cleanup>
</backup>

<backup>
  <source type="tar">
    <option name="path" value="project/uploads"/>
  </source>
  <target dirname="/backup/project/uploads" filename="uploads-%Y%m%d-%H%i.tar" compress="bzip2"/>
  <cleanup type="outdated">
    <option name="older" value="2W"/>
  </cleanup>
</backup>
```

configure backup

```
<backup>
  <source type="mysqldump"/>
  <target dirname="backup/mysql" filename="mysql-%Y%m%d-%H%i.sql" compress="gzip"/>
  <check type="SizeMin" value="100M"/>

  <cleanup type="Outdated">
    <option name="older" value="2W"/>
  </cleanup>
</backup>
```

check copy

```
<sync type="dropbox">  
  <option name="token" value="hkj1234hfi2dsULG1ZA123123jkJadH3GhJBJk2bvj128128hjnHG1sd5iuJG" />  
  <option name="path" value="/backup/%Y" />  
</sync>
```

# sync backup

Amazon S3, copy.com, dropbox, rsync, SFTP, Softlayer

```
<logging>
  <log type="mail">
    <option name="recipients" value="sebastian@phpbu.de"/>
  </log>
</logging>
```

notification on error

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <phpbu xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:noNamespaceSchemaLocation="http://schema.phpbu.de/1.2/phpbu.xsd"
4     verbose="true">
5     <logging>
6         <log type="mail">
7             <option name="recipients" value="sebastian@phpbu.de"/>
8         </log>
9     </logging>
10    <backups>
11        <backup>
12            <source type="mysqldump"/>
13            <target dirname="/backup/project/mysql" filename="mysql-%Y%m%d-%H%i.sql" compress="bzip2"/>
14            <check type="sizemin" value="100M"/>
15            <cleanup type="outdated">
16                <option name="older" value="3W"/>
17            </cleanup>
18        </backup>
19        <backup>
20            <source type="tar">
21                <option name="path" value="project/uploads"/>
22            </source>
23            <target dirname="/backup/project/uploads" filename="uploads-%Y%m%d-%H%i.tar" compress="bzip2"/>
24            <sync type="dropbox">
25                <option name="token" value="hkj1234hfi2dsULG1ZA123123jkJadH3GhJBJk2bvj128128hjnHG1sd5iuJG"/>
26                <option name="path" value="/backup/%Y" />
27            </sync>
28            <cleanup type="outdated">
29                <option name="older" value="2W"/>
30            </cleanup>
31        </backup>
32    </backups>
33 </phpbu>
34
```

# installation

- composer require „phpbu/phpbu“
- git clone, composer install
- download the PHAR [phar.phpbu.de/phpbu.phar](http://phar.phpbu.de/phpbu.phar)

```
zaphod:~/php/phpbu/phpbu sf$ phpbu
phpbu 1.2.1

Configuration read from /Users/sf/php/phpbu/phpbu/phpbu.xml

Time: 170 ms, Memory: 2.25Mb

backup mysqldump: OK
-----+-----+-----+-----+
| executed | skipped | failed |
-----+-----+-----+-----+
checks    |      1 |      0 |      0 |
syncs     |      0 |      0 |      0 |
cleanups  |      1 |      0 |      0 |
-----+-----+-----+-----+

backup tar: OK
-----+-----+-----+-----+
| executed | skipped | failed |
-----+-----+-----+-----+
checks    |      0 |      0 |      0 |
syncs     |      1 |      0 |      0 |
cleanups  |      1 |      0 |      0 |
-----+-----+-----+-----+

OK (2 backups, 1 check, 1 sync, 2 cleanups)
zaphod:~/php/phpbu/phpbu sf$
```

execute phpbu

# benefits

- consistent backup for all projects
- developers think about the backup
- developers feel responsible



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