User manual, documentation

Application name:

"Intelligent incremental backup system for web servers"

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1. Application Run

- There are 2 possible ways of running the application:

1.1. CRON

Run .java file named Main.java (with auto method call from AppRun.class) to set the automatic backup for configured sites via (**NOTE: Replace the placeholder text in angle brackets with your specific values.**):

Write a shell script that should contain the following lines:
 #!/bin/bash

```
#set the classpath
CLASSPATH=<path to your java files>

#run the java program
java -cp $CLASSPATH < main class name>
```

- Make the shell script executable using the following command: *chmod* +x <*script name*>.*sh*
- Open the crontab file using the following command: crontab -e
- Add the following line to the crontab file to run the shell script at a desired time: <minute> <hour> <day of the month> <month> <day of the week> <path to script>
- Save the crontab file and exit.
- Verify that the cron job is running correctly by checking the logs or using the following command: *crontab -l*

1.2. CLI

Run the app with intelliJ with creating an Apprun instance via: AppRun application = new AppRun(); application.run();

By typing **wb**, **wb** -*h* or **wb** --*help*, the helper pops up:

```
Intelligent backup system for meb servers
Usage:
    mb [commands]
Global app flags:
                          Display help information about web-backups app
    -h,--help
    list-backups Output a list of backups. In default, it'll list all backups from the local server. If the site name is set, or list-sites Output the list of all configured sites of all local servers that share storage server with this local server.
                       Output a list of backups. In default, it'll list all backups from the local server. If the site name is set, only its backups will be listed.
                        Manually runs the backup of a specific site
                        Restores a specific site by writing its name and specifying the backup_id
    restore
    restore-files Restores specific file(s) (if exists) from a .tal .tal
enable Enables site by adding or recoving a link to the sites-enabled folder
                     Disables site by adding or removing a link to the sites-enabled folder
    set-period Sets the backup period (days)
    set-switch
                        Whether to keep backups also on the local server, possible values 8/1 (8001)
                         Checks all configs of locally enabled sites and performs backups if needed automatically as requested in site config files
    auto
```

- For showing commands help line write **wb <command> -h** or **wb <command> --help**Description then gets shown.

2. CIT Commands and functions overview:

2.1. wb backup -flag

Runs the manual backup of the site specified in the config file. Possible flags:

- o i runs incremental backup
 - o f runs full backup
- 2.2. wb restore backupId -flag

```
Name:
    restore - Restores a specific site by writing its name and specifying the backup_id

Usage:
    restore [parameters...]

Parameters:
    site_name
    backup_id
```

Runs the manual restore for a specific site from the remote server by the backup_id if the backup_id for specific site exists.

- No flags possible
- 2.3. wb restore-files

```
Name:
    restore-files - Restores specific file(s) (if exists) from a .txt file
Usage:
    restore-files [parameters...]
Parameters:
    file.txt
    file_path
    file_path
```

Runs the manual restore for a specific site from the remote server by the backup_id if the backup_id for specific site exists. Files that are being restored are specified in a file which's path has to be written as a parameter.

No flags possible

2.4. wb list-backups

Lists backups that are locally stored on the machine.

Possible flags:

- o f lists full backup folders for each site
- o i lists incremental folders for each site
- o b lists both
- 2.5. wb list-sites

Lists sites that are locally stored on the machine.

- o e lists sites that are in the enabled list
- o d lists sites that are **not** in the enabled list
- 2.6. wb enable

```
Name:
    enable - Enables site by adding or removing a link to the sites-enabled folder
Usage:
    enable [parameters...]
Parameters:
    site_name
```

Adds site to the enabled lists

o No flags possible

2.7. wb disable

```
Name:
    disable - Disables site by adding or removing a link to the sites-enabled folder
Usage:
    disable [parameters...]
Parameters:
    site_name
```

Removes the site from enabled list.

- o No flags possible
- 2.8. wb set-period

```
Name:
    set-period - Sets the backup period (days)
Usage:
    set-period [parameters...]
Parameters:
    period
```

Sets the full backup period. Period should be one string without spaces consisting of numbers and coma as a separator. i.e. **2,5,15,20**