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1. Taking a Backup of Ubuntu Server with rsync

[+] This takes a backup of the specified dirs (/home, /etc, and /var/www) and saves to dest dir (/backups/files).

Command:

```
rsync -av --delete /home /etc /var/www /backups/files
```

- -a: Archive mode, which preserves permissions, timestamps, symbolic links, and other attributes.
- -v: Verbose mode, which provides detailed information about the transfer process.
- --delete: Deletes files in the destination directory that are not present in the source directory.

2. Compressing the Backup Directory with gzip

[+] This creates an archive of the directory and compresses it using gzip.

Command:

```
tar -czvf /backups/backup_files.tar.gz -C /backups files
```

- -c: Create a new archive.
- -z: Compress the archive with gzip.
- -v: Verbose mode, which provides details of the files being processed.
- -f: Specifies the name of the archive file.
- -C /backups: Change to the /backups directory before processing the files directory to avoid including the full path in the archive.

3. Transferring the Zipped Backup File to a Local Machine with scp

[+] run this command on your Local NOT server

Command:

```
scp -r root@49.13.23.4:/backups/backup_files.tar.gz /backup-folder-on-
```

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local

- -r: Recursively copy entire directories (useful if copying a directory instead of a single file).
- 4. Transferring the Zipped Backup File from Local to Server Using scp

Command:

scp /backup-folder-on-local/backup_files.tar.gz
user@49.13.23.4:/path/on/server

- 5. Restoring the Compressed (tar.gz) Backup File on the Server
- [+] You need to extract the contents using the tar command (step 1) and then copy the necessary files to their appropriate locations (step two).

Command to Extract the Backup File:

tar -xzvf /path/on/your/server/backup_files.tar.gz -C /path/to/extract

- -x: Extract the archive.
- -z: Decompress the archive with gzip.
- -v: Verbose mode.
- -f: Specifies the name of the archive file.
- -C /path/to/extract: Change to the specified directory before extracting the files.

Command to Copy Specific Files (e.g., nginx.conf):

cp /path/to/extract/files/etc/nginx/nginx.conf /etc/nginx/nginx.conf

This command copies the extracted nginx.conf file to its appropriate location.

Example Workflow:

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1. Backup:

```
rsync -av --delete /home /etc /var/www /backups/files
tar -czvf /backups/backup_files.tar.gz -C /backups files
```

2. Transfer to Local:

```
scp -r root@49.13.23.4:/backups/backup_files.tar.gz
/Users/username/Desktop/your-backup-folder-on-local
```

3. Transfer Back to Server:

```
scp /Users/username/Desktop/your-backup-folder-on-
local/backup_files.tar.gz username@49.13.23.4:/path/on/your/server
```

4. Restore:

```
tar -xzvf /path/on/your/server/backup_files.tar.gz -C /path/to/extract
cp /path/to/extract/files/etc/nginx/nginx.conf /etc/nginx/nginx.conf
```

These steps should provide a robust process for backing up, compressing, transferring, and restoring data on our Ubuntu server.

Please let me know if anything needs be improved. xoxo DFK