

LAB :: Basic Hashing

Login to your server:

```
[groupN.apnictraining.net] [192.168.30.N]
```

- Replace N with your group number
- Username `apnic` and password `training`

1. Create a document to hash

```
echo "This is the first document we will HASH." > hash_file
```

2. View the file content

```
cat hash_file
```

3. Generate a md5 hash of the document

```
md5sum hash_file
```

The output will be:

```
3ef84e12ff8099f4a91c9251850e7cc3 hash_file
```

4. Now edit the `hash_file` and calculate the md5 hash again.

```
echo "This is the first document we will HASH" > hash_file
```

- We are deleting just the full stop (.)

5. Calculate the md5 hash again

```
md5sum hash_file
```

The output will be:

```
afc1bc9dc0afa58cb38f73523ae2e1ec hash_file
```

6. Notice how changing just one character results in a entirely different hash value!

7. Repeat the same using SHA algorithm (default is SHA-1), and observe the hash values:

```
shasum hash_file
```