

time ./htable intile

gcc -pg ... prog.c

./a.out stuff

gprof a.out

new array where encodings are saved and corresp.
bytes are indexes.

UNIX & Identity

Based on

/etc/passwd

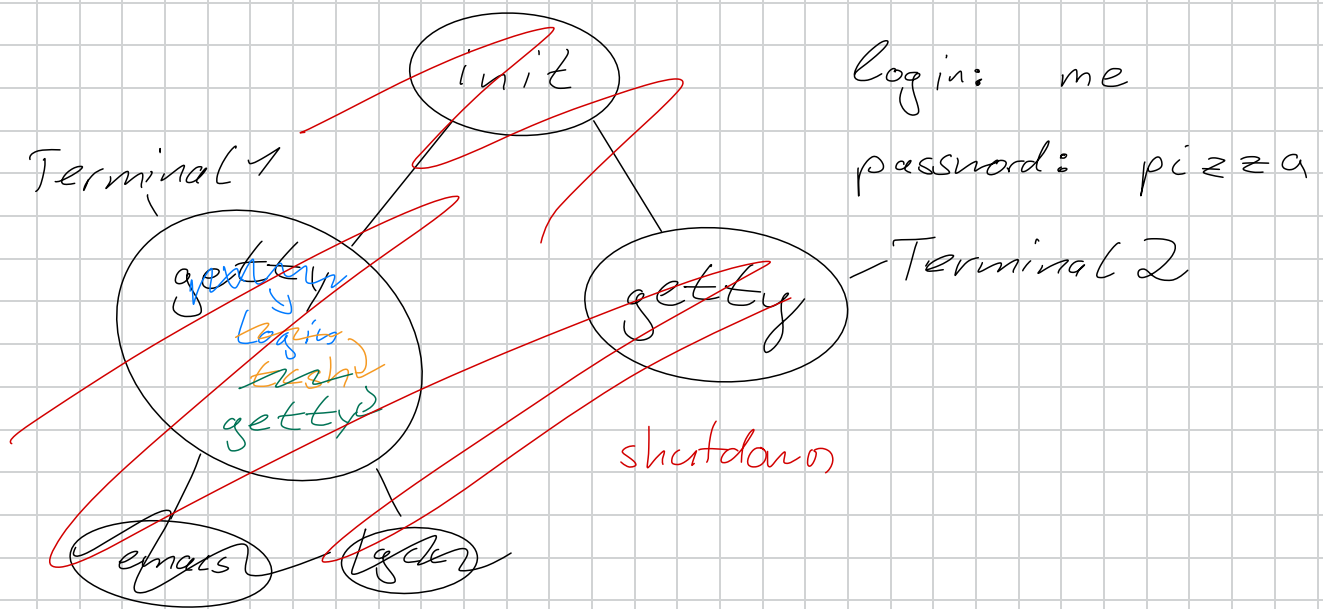
↳ each user has an entry:

name:passwd:uid:gid:GECOS:home-dir:shell

char *crypt([↙]const char *key, const char *salt);

/etc/shadow

/etc/group



Directories

↳ files that know about other files

↳ interface

```
DIR * opendir (const char *path);
```

```
int closedir (DIR *dir);
```

```
struct dirent * readdir (DIR *dir);
```

```
struct dirent {
```

```
·  
·  
·
```

```
char d_name [NAME_MAX+1];
```

```
}
```

```

int main (void) {
    struct dirent *ent;
    DIR *d;
    d = opendir(".");
    // check here
    while ((ent = readdir(d)) != NULL) {
        printf("%s\n", ent->d_name);
    }
    close(d);
    return 0;
}

```

NEXT

⇒ UNIX IO

Basic Abstraction

↳ file descriptor: small integer
index into table

↳ open at birth

STDIN - FILE NO

STDOUT - FILE NO

STDERR - FILE NO

<unistd.h>