

Process management

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Introduction

This page is for techniques related to Linux processes and their management.

htop

TBC

Killing

Killing a process tree

Find the root PID of the process tree then generate the command required to kill the entire tree by:

⚠ This sometimes generates a list of processes that are not in the tree. To be safe, use `pstree -p <PID>` to check.

```
PID=362
ps xf | awk -v PID=$PID '
    $1 == PID { P = $1; next }
    P && /_/ { P = P " " $1; K=P }
    P && !/_/ { P="" }
    END { print "kill " K }'
```

TODO: develop another command, based on parsing pstree output? This looks promising but **the regex needs tightening up to only match PIDs**:

```
kill $(pstree -p <PID> | grep --only-matching '[0-9]*'|tac)
```

A array of PIDs in a process tree can be generated by:

```
PID=tree_root_PID
pids=$(pstree --show-pids --long $PID | sed -e 's/.*(// ' -e 's// / '))
```

top

TBC