

# mosh

@ColinDean

# Notices.

My words are not necessarily my employers'. Duh.

# Introduction

**MO**bile **SH**ell

[mosh.org](https://mosh.org)

# Verbosely

**Mosh is a replacement for SSH.**

It's more robust and responsive, especially over Wi-Fi, cellular, and long-distance links.

**Remote `terminal` application that**

- allows **roaming**,
- supports **intermittent connectivity**, and
- provides intelligent **local echo** and line editing of user keystrokes.

**Why mosh?**

# Change IP. Stay connected.

Connected UDP - *may* need firewall punch

# Encrypted

State Synchronization Protocol (SSP) secured with AES-128

# Sleep recovery

Reconnects automatically



## No echo lag

Typed characters shown immediately, sent when possible

# mosh is safe to use

No privileged code

No daemon

## Uses SSH login

- Connects via SSH
- Starts `mosh-server` on server
- Starts `mosh-client` on client

**^C always works**

Control commands jump to front of send buffer

# Few dependencies

- Protocol Buffers
- ncurses
- zlib
- OpenSSL / Nettle / Apple Common Crypto
- utempter (optional)

# Use

```
ssh colin@cad.cx
```

becomes

```
mosh colin@cad.cx
```

## Complex use

```
mosh --ssh="~/bin/ssh -i ./identity -p 2222" cad.cx
```

# Use a config file!

```
~/.ssh/config
```



# Caveats

- Supports UTF-8 *only*
- Must install mosh on server
  - No failover (yet)

# Planned features

X11Forwarding

SSH Agent

IPv6

# Availability



# Availability on \*BSD



# Availability on Linux



# Availability for macOS



Homebrew



MacPorts

# Availability for Android



# Common install invocation

```
sudo apt-get install mosh
```

```
brew install mobile-shell
```

or get it from [mosh.org](https://mosh.org)



# Yell at me.

@colindean

[cad.cx](http://cad.cx)

[github.com/colindean/talks](https://github.com/colindean/talks)