

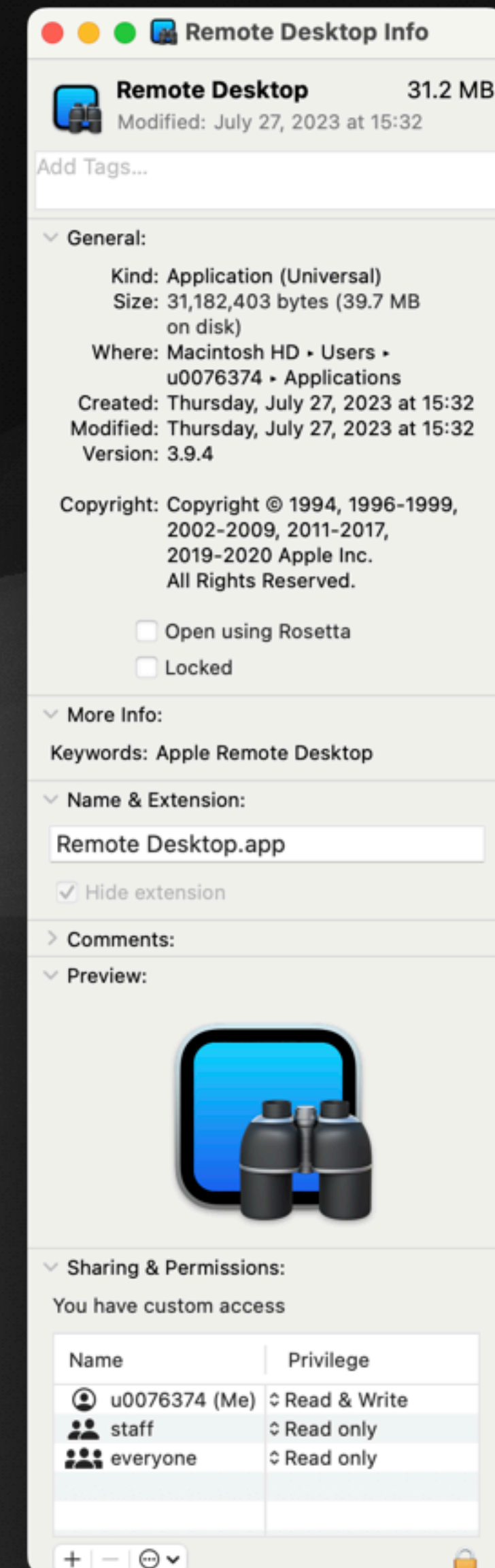
# Managing with SSH

A quick iTerm2 Broadcast Input & Ansible Demo

James Reynolds, October 18, 2023

# Why?!

- ARD 3.9.4
- Send Unix Command rarely works for me now



**Demo!**

# iTerm2 vs Ansible Pros and Cons

## iTerm2

- Pros
  - Interactive
  - Extremely flexible
  - No learning curve
  - Simple setup

## Ansible

- Pros
  - Playbook automation
  - Workflows
  - Host file organization
  - Store in git
  - Easy to manage lots of computers

# iTerm2 DynamicProfiles

~/Library/Application Support/iTerm2/DynamicProfiles/name.json

```
{
  "Profiles": [
    {
      "Name": "computer-01",
      "Guid": "computer-01",
      "Custom Command" : "Yes",
      "Command" : "ssh james@computer.example.com",
    }
  ]
}
```

# BeyondTrust Password Safe

```
ssh -p 44 'ad.example.com\user@admin@computer.example.com@jumpbox.example.com'
```

- Password safe username: ad.example.com\user
- Server username: admin
- Server: computer.example.com
- Password safe: jumpbox.example.com

# BeyondTrust Password Safe DynamicProfile

```
{
  "Profiles": [
    {
      "Name": "b.example.com",
      "Guid": "b.example.com",
      "Custom Command" : "Yes",
      "Command" : "ssh -p 44 'ad.example.com\\u@admin@b.example.com@gw.example.com'",
    }
  ]
}
```

# Helpers: idletime

```
#!/usr/bin/perl -w
```

```
use strict;
```

```
use Time::Seconds;
```

```
print ( Time::Seconds->new(idleTime())->pretty()."\n" );
```

```
sub idleTime {
```

```
    foreach ( `/usr/sbin/ioreg -c IOHIDSystem` ) {
```

```
        if ( /HIDIdleTime" = (\d*)/ ) {
```

```
            return $1/1000000000 if $1 ne "";
```

```
        }
```

```
    }
```

```
    return 0; # just in case
```

```
}
```



# Helpers: isidle

```
#!/usr/bin/perl -w

use strict;
use Time::Seconds;
my $idletime = idleTime();
my $threshold = defined $ARGV[0] ? int ( $ARGV[0] ) : 3600;
my $pretty_idle = Time::Seconds->new($idletime)->pretty();
my $pretty_thresh = Time::Seconds->new($threshold)->pretty();
if ( $idletime > $threshold ) {
    print "Yes: $pretty_idle > $pretty_thresh\n";
} else {
    die "No: $pretty_idle < $pretty_thresh\n";
}
sub idleTime {
    foreach ( `/usr/sbin/ioreg -c IOHIDSystem` ) {
        if ( /HIDIdleTime" = (\d*)/ ) {
            return $1/1000000000 if $1 ne "";
        }
    }
    return 0; # just in case
}
```

# Helpers: Ansible playbook example

```
- hosts: '{{h}}'  
  tasks:  
    - name: isidle  
      shell: /usr/local/bin/isidle 60
```

To use it:

```
ansible-playbook -e h=student playbook.yml
```

**Questions?**