Silicon Sandbox: Mastering Mac virtualisation for Jamf workflows

Rob Potvin
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Recipe

Preheating the Oven

Choosing Our Ingredients

Measuring and Prepping

Mixing the Batter

Baking and Sharing

The Taste Test

Serving Suggestions

Preheating the Oven

Warming Up with Apple's Virtualisation Framework

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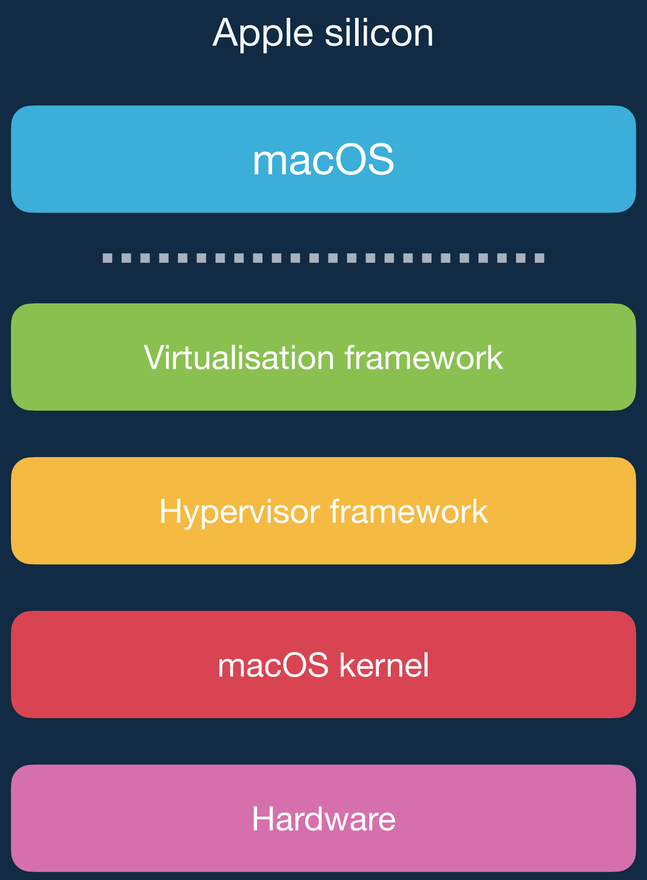
What is this **Virtual Machine**

- A fully functional macOS environment running inside another macOS machine (host) on Apple Silicon
- VMs are created and launched using the Apple Virtualisation Framework
- Free, built into the OS



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mise en place

Trackpad support
Shared folder support
no clipboard
ARM Linux Support GUI

macOS **Ventura**

Nested virtualisation enhancements
Limited iCloud support

macOS **Sequoia**

macOS **Monterey**

no Shared Folders
no Trackpads
no clipboard
ARM Linux Support no GUI

macOS **Sonoma**

Display Refit
Save and restore
Suspend VM
NVMe Storage
Mac keyboard support
Rosetta 2 Linux Support

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Half-Baked Recipe:
What's Missing from the Mix

- No Appstore
- No Apps & Books
- No TouchID
- No Automated Enrollment
- Limited iCloud Support*
- Limited Mouse / Trackpad / Keyboard

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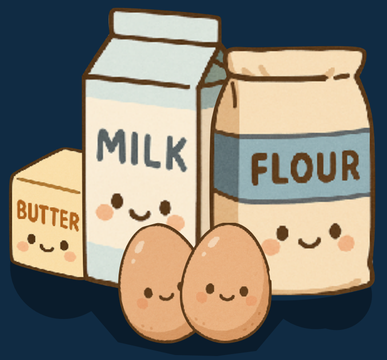

Choosing Our Ingredients

Virtualisation Pantry

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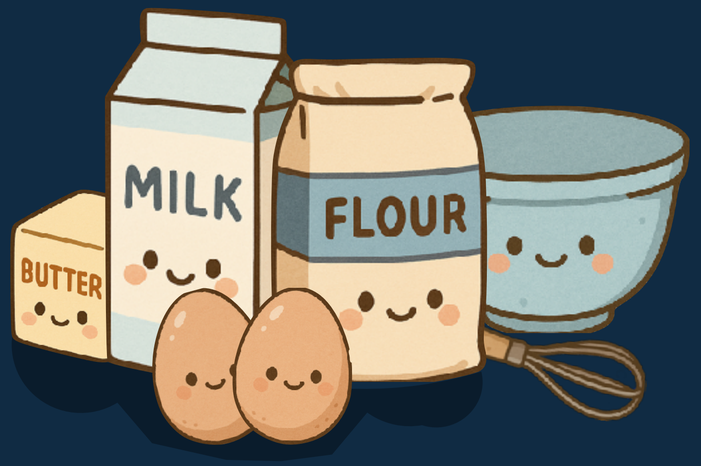

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VirtualBuddy

VirtualBuddy can virtualize macOS 12 and later on Apple Silicon, with the goal of offering features that are useful to developers who need to test their apps on multiple versions of macOS.

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Viable

Viable uses lightweight virtualisation in macOS Monterey 12.4 or later to build, install and run macOS virtual machines (VMs) on Apple silicon Macs. Has a cool little sister app ***Vimy*** *with a linux variant called* ***Liviable****.*

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UTM

UTM is a full featured system emulator and virtual machine host for iOS and macOS. It is based off of QEMU. In short, it allows you to run Windows, Linux, and more on your Mac, iPhone, and iPad.

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Orka Desktop

An easy desktop virtualization program that allows you to create and manage macOS virtual machines locally with an easy-to-use GUI.

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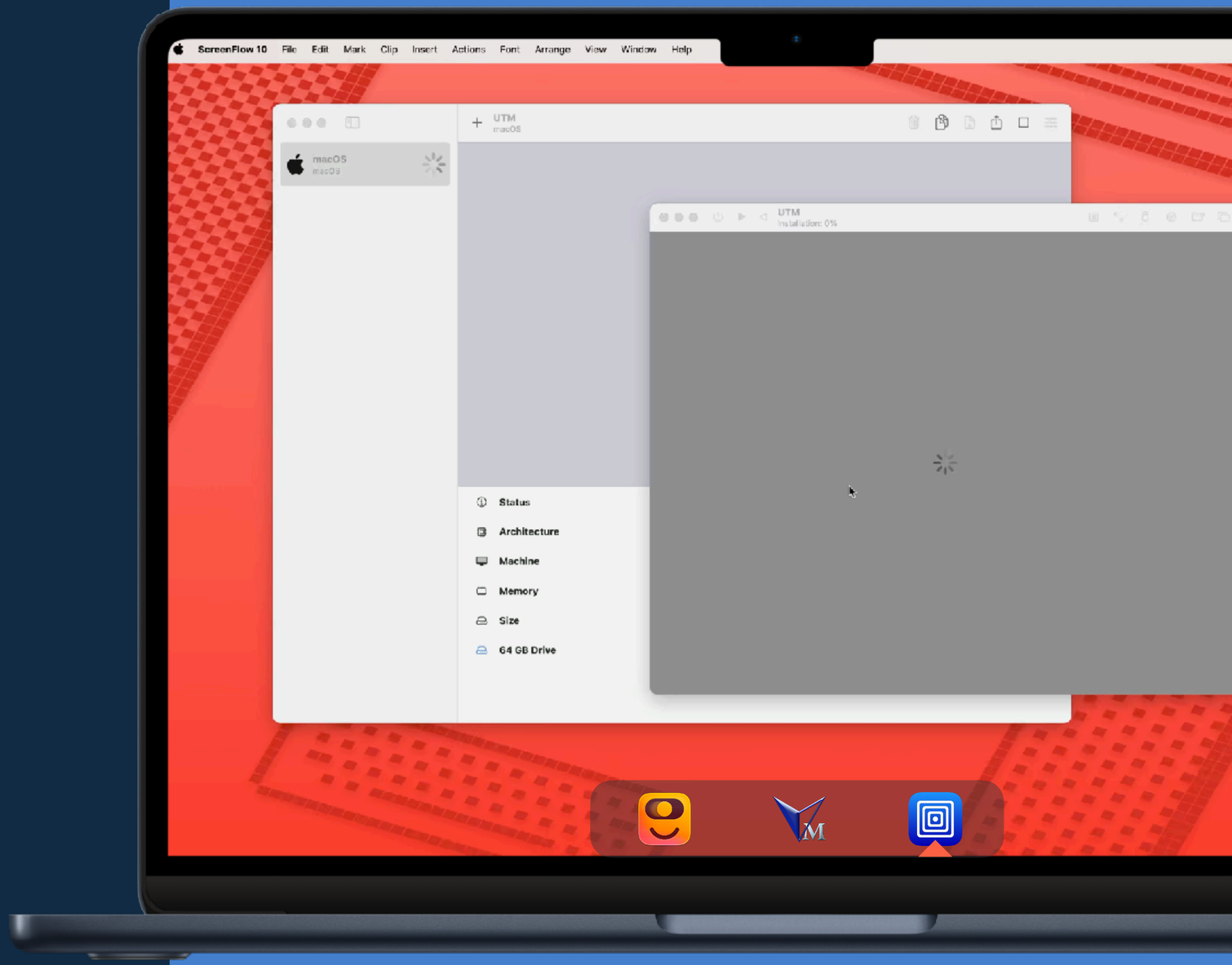
Building a VM

- Install from **IPSW**
- Run through **Setup Assistant**
- **Enroll** Device
- **Use** once and delete



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Traditional VM Managers

Where 'instant deployment' means 'grab a coffee first', click through the setup assistant. Many ingredients, many steps and then and only then will you be ready for enrollment.

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Restore

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Apple Setup Assistant

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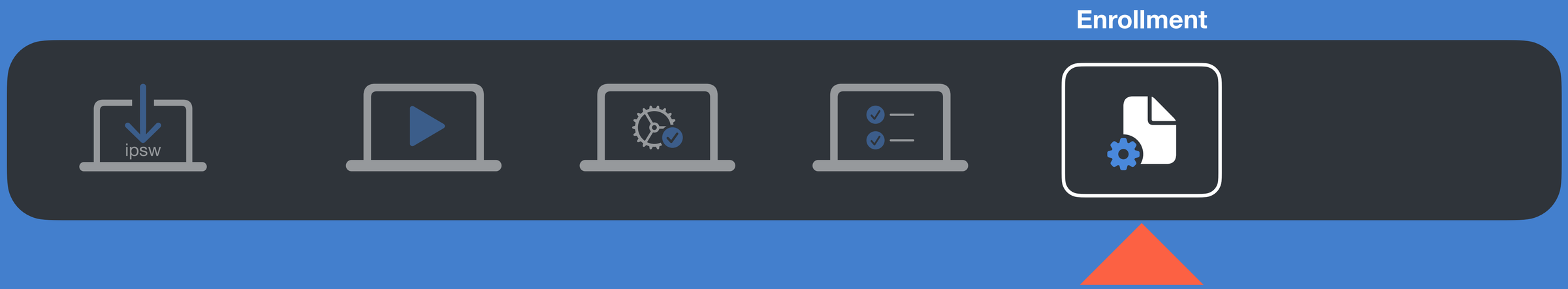

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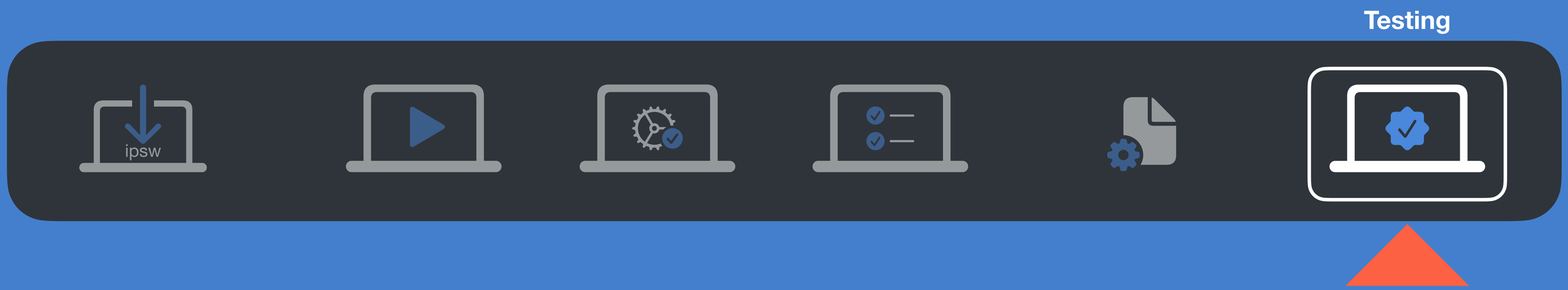

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tart

Tart is like your ingredients pre-mixed for virtualisation- think of it as your secret recipe for baking up quick, fresh, isolated macOS environments right from the command line.

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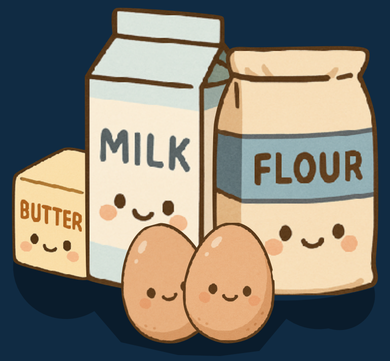

Measuring and Prepping:
Getting to Know Tart

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Tart Bake-Off
Pre-Mixed, Ready in Minutes

- Command Line Tool
- Tart.app for output
- Install via homebrew
  - `brew install cirruslabs/cli/tart`
- tart.run

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Tart Ingredients

Part cmd, part app

- Build from IPSW
- Easy Clone / Easy Import / Export
- Pull / Push VM images to / from OCI registry

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Measuring and Prepping

Getting to Know Tart

```
tart create --from-ipsw='/Users/rob.potvin/Downloads/Universal Mac 15.4.1
Restore.ipsw' 15.4.1
Installing OS...
24%
```

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Measuring and Prepping

Getting to Know Tart

```
tart create --from-ipsw='/Users/rob.potvin/Downloads/Universal Mac 15.4.1
Restore.ipsw' 15.4.1
Installing OS...
100%
```

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Measuring and Prepping
Getting to Know Tart

```
tart list
Source Name
             Disk Size SizeOnDisk State
local  15.4.1

             50   19   19         stopped
```

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Measuring and Prepping

Getting to Know Tart

```
tart clone 15.4.1 newtest
```

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Measuring and Prepping
Getting to Know Tart

```
tart list
Source Name
             Disk Size SizeOnDisk State
local  15.4.1

             50   19   19         stopped
local  newtest

             50   19   19         stopped
```

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Great but where is the **Instant Cake Mix?**

```
tart pull ghcr.io/cirruslabs/macos-sequoia-vanilla:latest
pulling ghcr.io/cirruslabs/macos-sequoia-vanilla:latest...
pulling manifest…
pulling disk (21.3 GB compressed)...
100%
```

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Great but where is the
Instant Cake Mix?

```
tart clone ghcr.io/cirruslabs/macos-sequoia-vanilla:latest newvmtest
```

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Great but where is the **Instant Cake Mix?**

```
tart list
Source Name
             Disk Size SizeOnDisk State
local  newvmtest

             50   19   19         stopped

OCI    ghcr.io/cirruslabs/macos-sequoia-vanilla:latest

             50   24   24         stopped
```

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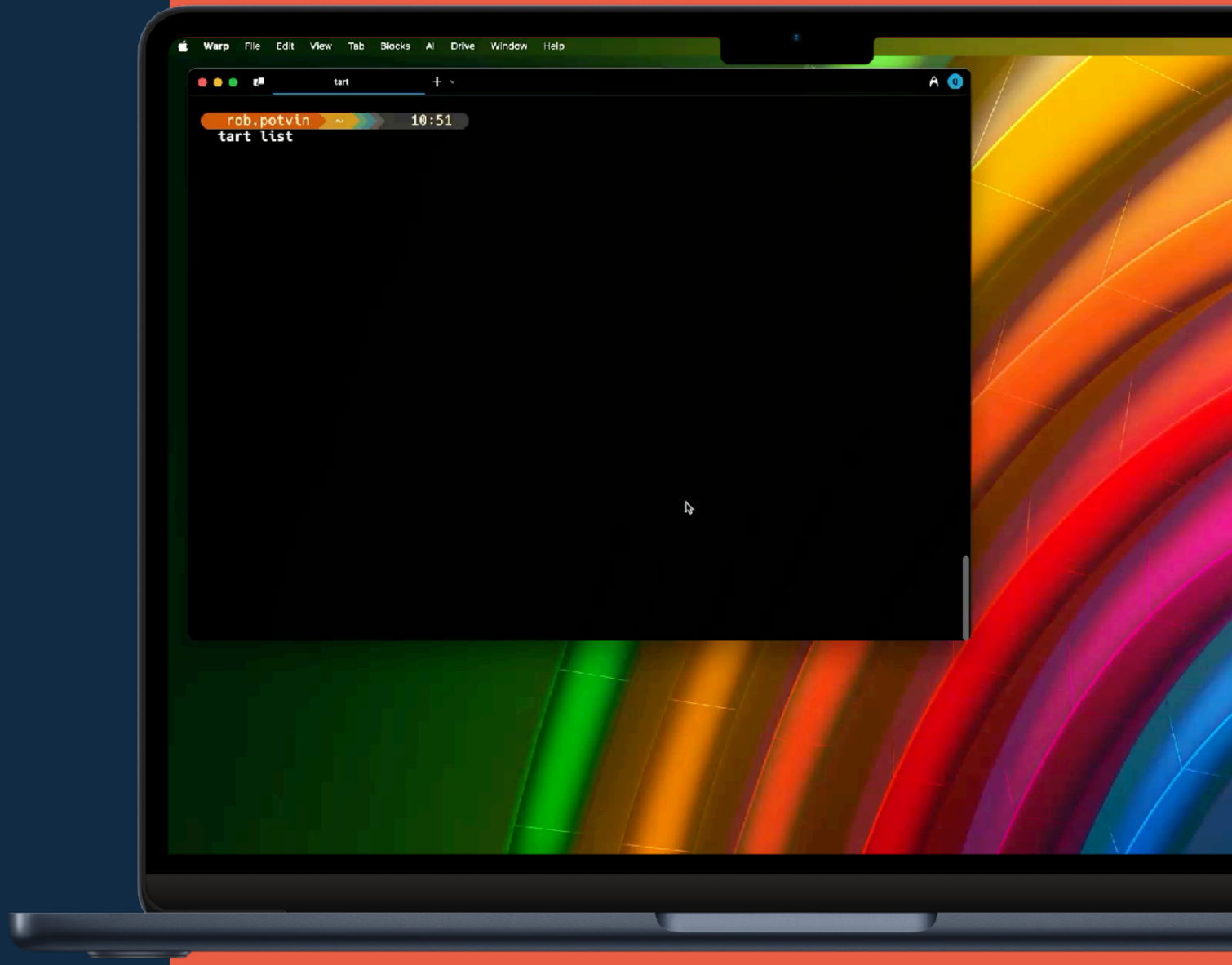
New Clone
Running in tart

- Instant cake mix is **instant**
- Using the **`tart set` command**
- `--display-refit`
- Launches in 20-30 seconds
- Simple clone from the image downloaded from the **OCI server**



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New Clone
Running in tart

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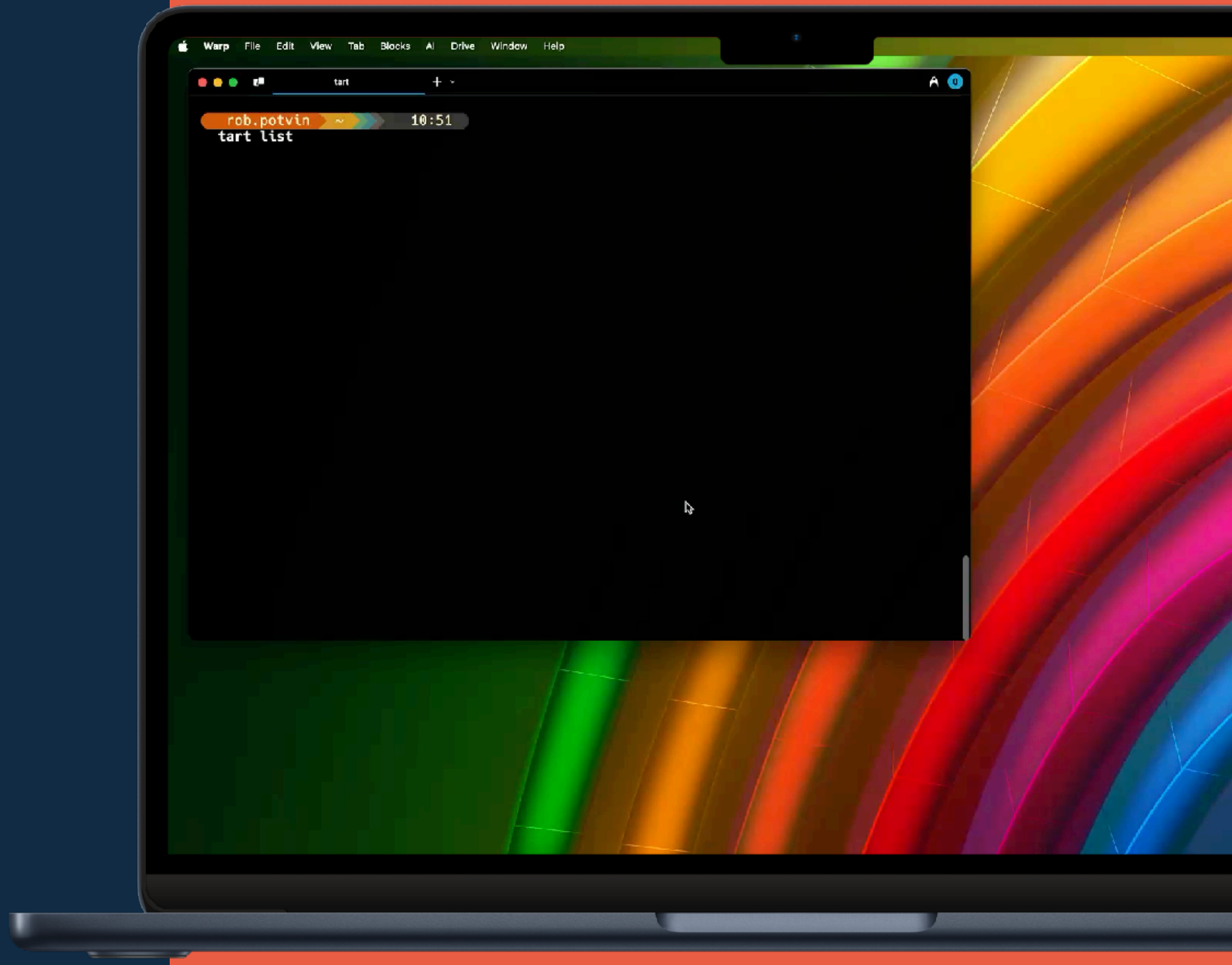

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What do you think about Our **Instant Cake Mix?**

- One OCI macOS image hosted
- Many clones, many enrollments
- Easy to create new serial numbers
  - `tart set --random-serial --random-mac`

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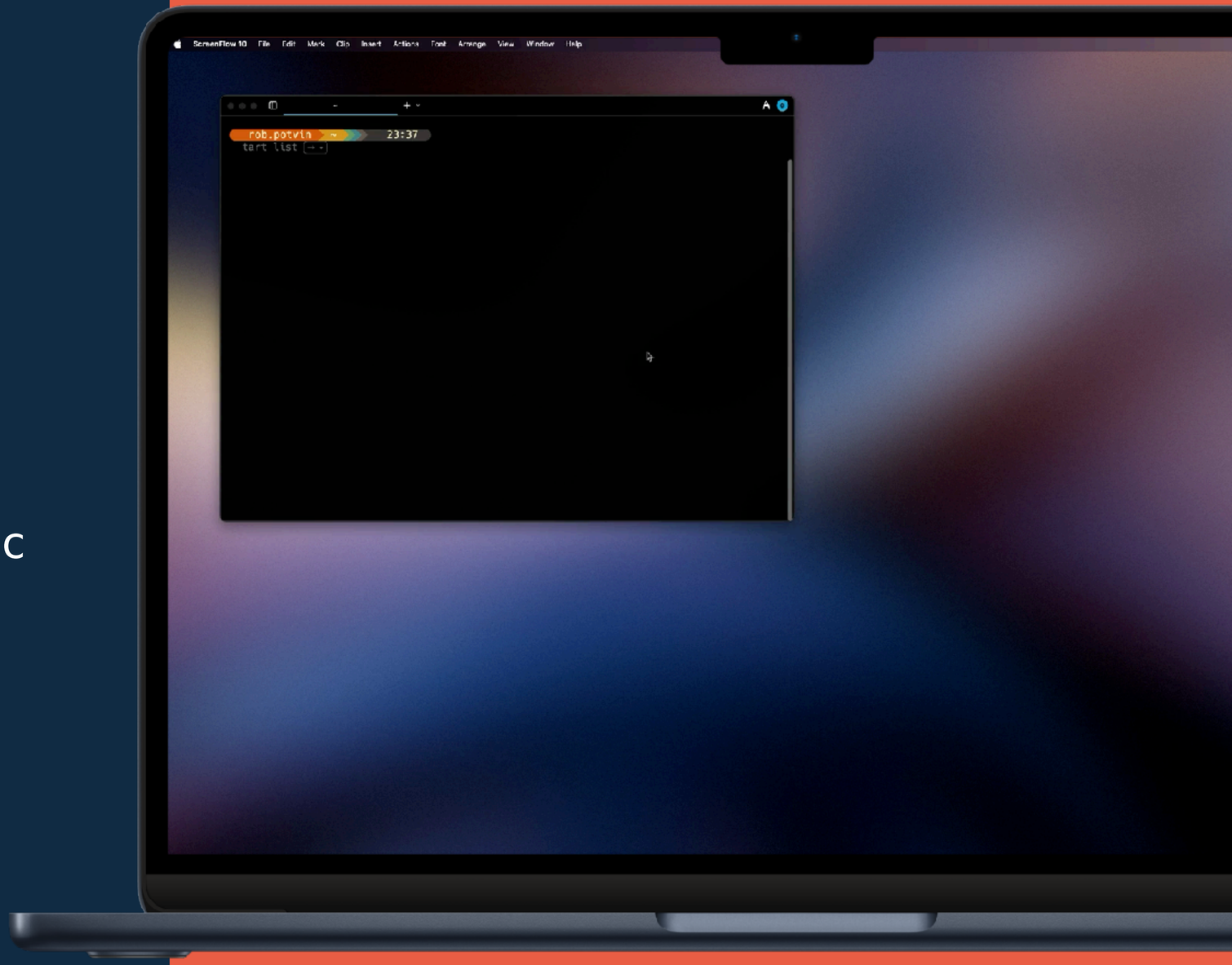
Enroll the VM
Up and running

- Cloning a new VM
- Using the **`tart set command`**
- `--random-serial --random-mac`
- **Enrollment** with User Initiated Enrollment



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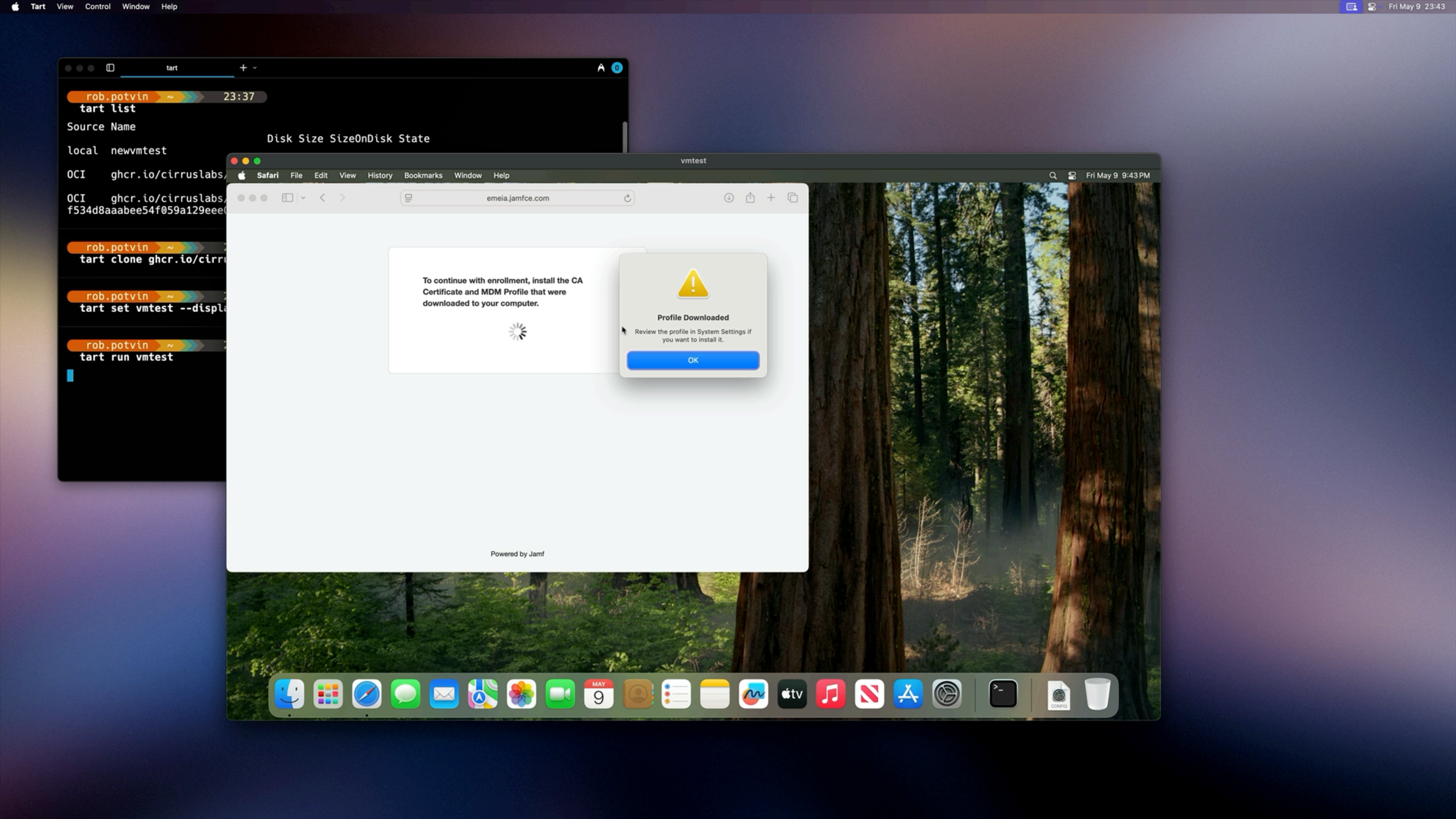
ScreenFlow 10 File Edit Mark Clip Insert Actions Font Arrange View Window Help

Fri May 9 23:42

~

rob.potvin ~ 23:37

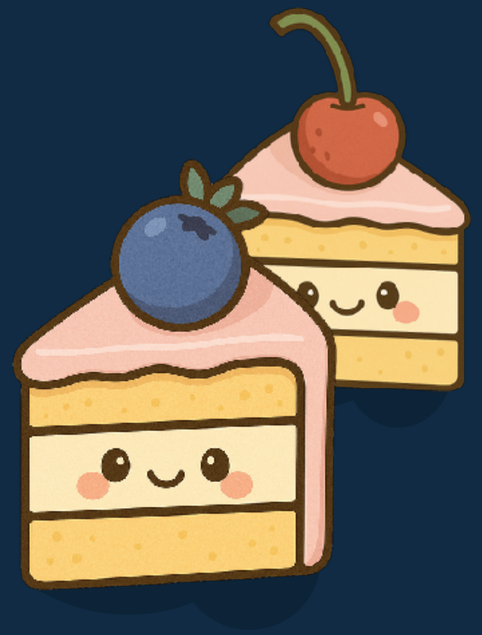
```
tart list
```


Tart View Control Window Help
Fri May 9 23:43
tart
rob.potvin ~ 23:37
tart list
Source Name
Disk Size SizeOnDisk State
local newvmtest
OCI ghcr.io/cirruslabs/
OCI ghcr.io/cirruslabs/
f534d8aaabee54f059a129eee
rob.potvin ~
tart clone ghcr.io/cirru
rob.potvin ~
tart set vmtest --displa
rob.potvin ~
tart run vmtest
vmtest
Safari File Edit View History Bookmarks Window Help
Fri May 9 9:43 PM
emeia.jamfce.com
To continue with enrollment, install the CA Certificate and MDM Profile that were downloaded to your computer.
Profile Downloaded
Review the profile in System Settings if you want to install it.
OK
Powered by Jamf

Enrolled the VM

Could it be faster?

- Clone from OCI
- Easy to create new unique VMs for enrollment
- `tart set --random-serial --random-mac`
- Enrollment is a bit slow
- Could it be custom?



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Mixing the Batter:
Crafting Custom Images with Packer

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Key Ingredient

Packer, just a tablespoon

- Packer lets you create identical machine images from a single source template.
- Used a lot in CI/CD
- Easy install with homebrew
  - `brew tap hashicorp/tap`
  - `brew install hashicorp/tap/packer`
- Simple template to create a macOS VM

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Enrollment Ingredient Prepping **Jamf Pro**

- Create an enrollment invitation in Jamf Pro
- Set the limits on that invitation
- Add to enrollment URL - right to MDM
  - `https://name.jamfcloud.com/enroll?invitation=[id]`
- Keep you ID safe

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Packer Build

apple-tart-dutch.pkr.hcl

```
packer {
  required_plugins {
    tart = {
      version = ">= 1.12.0"
      source  = "github.com/cirruslabs/tart"
    }
  }
}

variable "vm_name" {
  type        = string
  default     = "appletart"
  description = "Name of the virtual machine to create"
}

variable "jamf_url" {
  type        = string
  description = "Jamf Cloud URL"
  default     = "https://emeia.jamfcloud.com"
}

variable "jamf_invitation_id" {
  type        = string
  description = "Invitation ID"
  default     = "108474273940480869353084040808705628873"
}
```

Packer Build

apple-tart-enrollment-url.pkr.hcl

```
}

source "tart-cli" "tart" {
  from_ipsw    = var.ipsw_url
  vm_name      = var.vm_name
  cpu_count    = 4
  memory_gb    = 8
  disk_size_gb = 50
  ssh_password = "admin"
  ssh_username = "admin"
  ssh_timeout  = "300s"
  boot_command = [
    # hello, hola, bonjour, etc.
    "<wait60s><spacebar>",
    # Language: most of the times we have a list of "English"[1], "English (UK)", etc. with
    # "English" language already selected. If we type "english", it'll cause us to switch
    # to the "English (UK)", which is not what we want. To solve this, we switch to some other
    # language first, e.g. "Italiano" and then switch back to "English". We'll then jump to the
    # first entry in a list of "english"-prefixed items, which will be "English".
    #
    # [1]: should be named "English (US)", but oh well 🤷
    "<wait30s>italiano<esc>english<enter>",
    # Select Your Country or Region
    "<wait30s>united states<leftShiftOn><tab><leftShiftOff><spacebar>",
    # Transfer Your Data to This Mac
    "<wait10s><tab><tab><tab><spacebar><tab><tab><spacebar>",
    # Written and Spoken Languages
    "<wait10s><leftShiftOn><tab><leftShiftOff><spacebar>",
    # Accessibility
    "<wait10s><leftShiftOn><tab><leftShiftOff><spacebar>",
    # Data & Privacy
    "<wait10s><leftShiftOn><tab><leftShiftOff><spacebar>",
    # Create a Mac Account
    "<wait10s>Managed via Tart<tab>admin<tab>admin<tab>admin<tab><tab><spacebar><tab><tab><spa
    # Enable Voice Over
    "<wait120s><leftAltOn><f5><leftAltOff>",
    # Sign In with Your Apple ID
```

INSERT MODE, Line 1, Column 1 main Spaces: 2 HCL

Packer Build

apple-tart-enrollment-url.pkr.hcl

```
  // A (hopefully) temporary workaround for Virtualization.Framework's
  // installation process not fully finishing in a timely manner
  create_grace_time = "30s"

  // Keep the recovery partition, otherwise it's not possible to "softwareupdate"
  recovery_partition = "keep"
}

build {
  sources = ["source.tart-cli.tart"]

  # Enable passwordless sudo, auto-login, disable screensaver, prevent sleep, enable safari au
  provisioner "shell" {
    inline = [
      "set -euxo pipefail",
      // Enable passwordless sudo
      "echo admin | sudo -S sh -c \"mkdir -p /etc/sudoers.d/; echo 'admin ALL=(ALL) NOPASSWD: /
      // Enable auto-login
      //
      // See https://github.com/xfreebird/kcpassword for details.
      "echo '00000000: 1ced 3f4a bcbc ba2c caca 4e82' | sudo xxd -r - /etc/kcpassword",
      "sudo defaults write /Library/Preferences/com.apple.loginwindow autoLoginUser admin",
      // Disable screensaver at login screen
      "sudo defaults write /Library/Preferences/com.apple.screensaver loginWindowIdleTime 0",
      // Disable screensaver for admin user
      "defaults -currentHost write com.apple.screensaver idleTime 0",
      // Prevent the VM from sleeping
      "sudo systemsetup -setsleep Off 2>/dev/null",
      // Launch Safari to populate the defaults
      "/Applications/Safari.app/Contents/MacOS/Safari &",
      "SAFARI_PID=$!",
      "disown",
      "sleep 30",
      "kill -9 $SAFARI_PID",
      // Enable Safari's remote automation
      "sudo safaridriver --enable",
```

Packer Build

apple-tart-enrollment-url.pkr.hcl

```
      "sudo safaridriver --enable",
      // Disable screen lock
      //
      // Note that this only works if the user is logged-in,
      // i.e. not on login screen.
      "sysadminctl -screenLock off -password admin",
    ]
  }

  # Disable spotlight
  provisioner "shell" {
    inline = [
      "set -euxo pipefail",
      "echo 'Disabling spotlight...'",
      "sudo mdutil -a -i off",
    ]
  }

  # Create a webloc file on the desktop for Jamf Pro enrollment
  provisioner "shell" {
    inline = [
      "set -euxo pipefail",
      "cat << EOF > ~/Desktop/Enroll_Your_Mac.webloc",
      "<?xml version=\"1.0\" encoding=\"UTF-8\"?>",
      "<plist version=\"1.0\">",
      "<dict>",
      "    <key>URL</key>",
      "    <string>${var.jamf_url}/enroll?invitation=${var.jamf_invitation_id}</string>",
      "</dict>",
      "</plist>",
      "EOF",
    ]
  }

}
```

INSERT MODE, Line 1, Column 1 main Spaces: 2

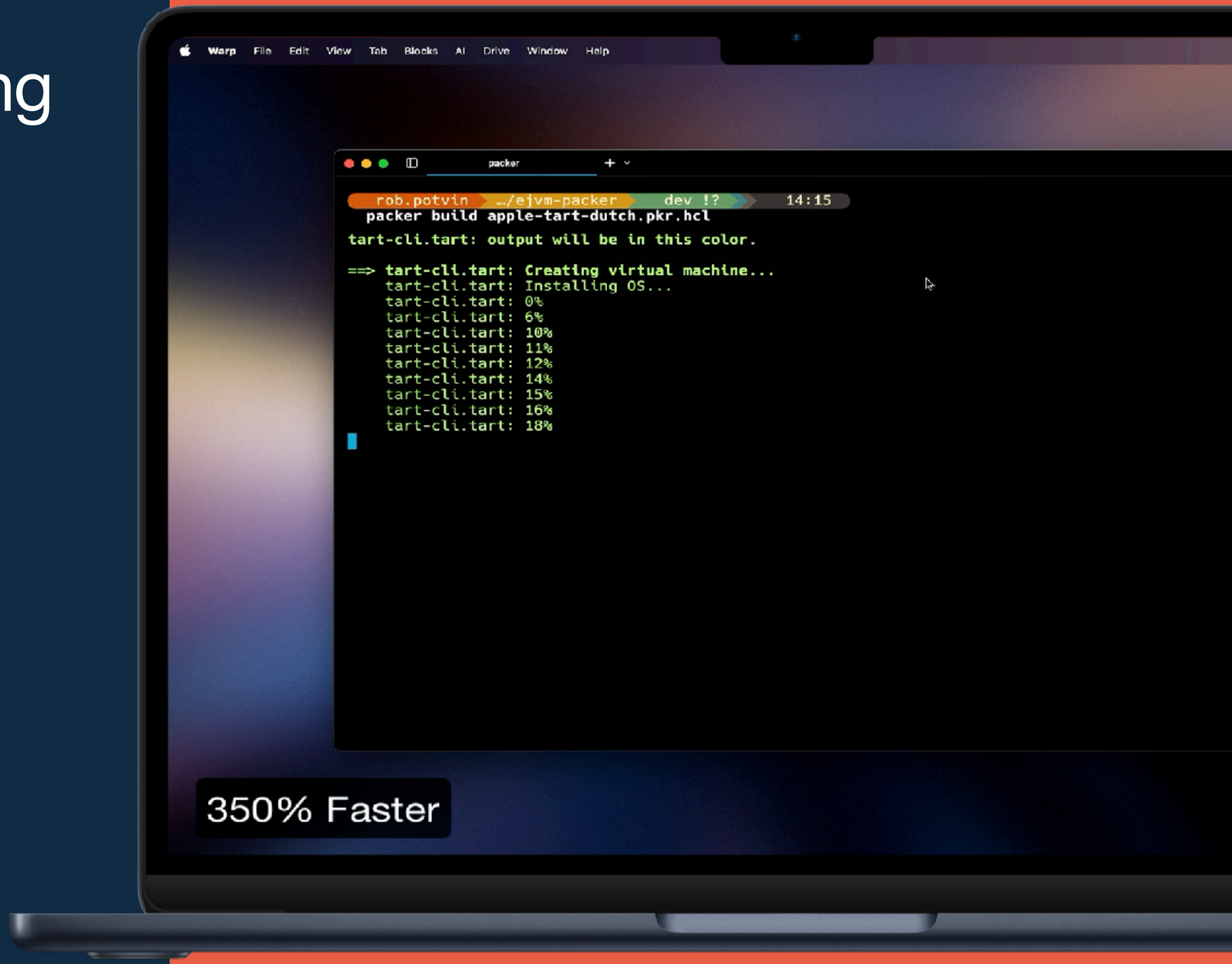
Packer Build

apple-tart-enrollment-profile.pkr.hcl

```
provisioner "shell" {
  inline = [
    // Create MDM enrollment profile
    "cat << EOF > ~/Desktop/mdm_enroll.mobileconfig",
    "<?xml version=\"1.0\" encoding=\"UTF-8\"?>",
    "<!DOCTYPE plist PUBLIC \"-//Apple//DTD PLIST 1.0//EN\" \"http://www.apple.com/DTDs/P
    "<plist version=\"1.0\">",
    "    <dict>",
    "        <key>PayloadUUID</key>",
    "        <string>${local.uuid}</string>",
    "        <key>PayloadOrganization</key>",
    "        <string>JAMF Software</string>",
    "        <key>PayloadVersion</key>",
    "        <integer>1</integer>",
    "        <key>PayloadIdentifier</key>",
    "        <string>${local.uuid}</string>",
    "        <key>PayloadDescription</key>",
    "        <string>MDM Profile for mobile device management</string>",
    "        <key>PayloadType</key>",
    "        <string>Profile Service</string>",
    "        <key>PayloadDisplayName</key>",
    "        <string>MDM Profile</string>",
    "        <key>PayloadContent</key>",
    "        <dict>",
    "            <key>Challenge</key>",
    "            <string>${var.mdm_invitation_id}</string>",
    "            <key>URL</key>",
    "            <string>${var.jamf_url}/enroll/profile</string>",
    "            <key>DeviceAttributes</key>",
    "            <array>",
    "                <string>UDID</string>",
    "                <string>PRODUCT</string>",
    "                <string>SERIAL</string>",
    "                <string>VERSION</string>",
    "                <string>DEVICE_NAME</string>",
    "                <string>COMPROMISED</string>",
    "            </array>",
    "        </dict>",
    "    </dict>",
```

Not-Live Cooking: Baking the Packer Template

- packer / tart installed
- `packer init` command
- `packer fmt` command
- `packer validate` command
- `packer build` command



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Tart View Control Window Help Sat May 10 14:20

packer

```
    tart-cli.tart: 40%
    tart-cli.tart: 42%
    tart-cli.tart: 43%
    tart-cli.tart: 44%
    tart-cli.tart: 46%
    tart-cli.tart: 48%
    tart-cli.tart: 49%
    tart-cli.tart: 51%
    tart-cli.tart: 53%
    tart-cli.tart: 55%
    tart-cli.tart: 57%
    tart-cli.tart: 61%
    tart-cli.tart: 64%
    tart-cli.tart: 67%
    tart-cli.tart: 70%
    tart-cli.tart: 73%
    tart-cli.tart: 76%
    tart-cli.tart: 79%
    tart-cli.tart: 82%
    tart-cli.tart: 84%
    tart-cli.tart: 87%
    tart-cli.tart: 90%
    tart-cli.tart: 100%
==> tart-cli.tart: Waiting 3
==> tart-cli.tart: Updating
==> tart-cli.tart: Inspectin
==> tart-cli.tart: Starting
==> tart-cli.tart: Successfu
==> tart-cli.tart: Typing bo
==> tart-cli.tart: Waiting f
==> tart-cli.tart: Retrieved
    tart-cli.tart: If you wa
-next" to
    tart-cli.tart: vnc://127
==> tart-cli.tart: Connected
==> tart-cli.tart: Typing co
```

appletart

Taal

Nederlands
English (UK)
English
Deutsch
Français
English (Australia)
English (India)
简体中文
繁體中文
繁體中文（香港）
日本語
Español

Door gebruik te maken van deze software ga je akkoord met de voorwaarden van de licentieovereenkomst voor de software. Je kunt deze voorwaarden ook lezen op https://www.apple.com/legal/sla/ (Engelstalig)

350% Faster

Warp File Edit View Tab Blocks AI Drive Window Help Sat May 10 14:32

~/Git/ejvm-packer

```
    tart-cli.tart:
    tart-cli.tart: System shutdown time has arrived
==> tart-cli.tart: Waiting for the tart process to exit...
Build 'tart-cli.tart' finished after 16 minutes 642 milliseconds.

==> Wait completed after 16 minutes 643 milliseconds

==> Builds finished. The artifacts of successful builds are:
--> tart-cli.tart: appletart

rob.potvin  …/ejvm-packer  dev !?  14:31
  tart clone appletart dutchapple

rob.potvin  …/ejvm-packer  dev !?  14:32
  tart list
Source Name
   Disk Size SizeOnDisk State
local  appletart
   50   22   22         stopped
local  dutchapple
   50   22   22         stopped
local  newvmtest
   50   24   24         stopped
local  vmtest
   50   25   25         stopped
OCI    ghcr.io/cirruslabs/macos-sequoia-vanilla:latest
   50   24   24         stopped
OCI    ghcr.io/cirruslabs/macos-sequoia-vanilla@sha256:01123a82f0507f3d005dfe8a0abf8f3d6f534d8aaabee54f059a129eee0706
13 50   24   24         stopped

rob.potvin  …/ejvm-packer  dev !?  14:32
  tart set experiencejamf --display-refit --random-mac --random-serial
```

350% Faster

Tart View Control Window Help Sat May 10 14:32

tart

```
==> Wait completed after 16 minutes 643 milliseconds

==> Builds finished. The artifacts of successful builds are:
--> tart-cli.tart: appletart
```

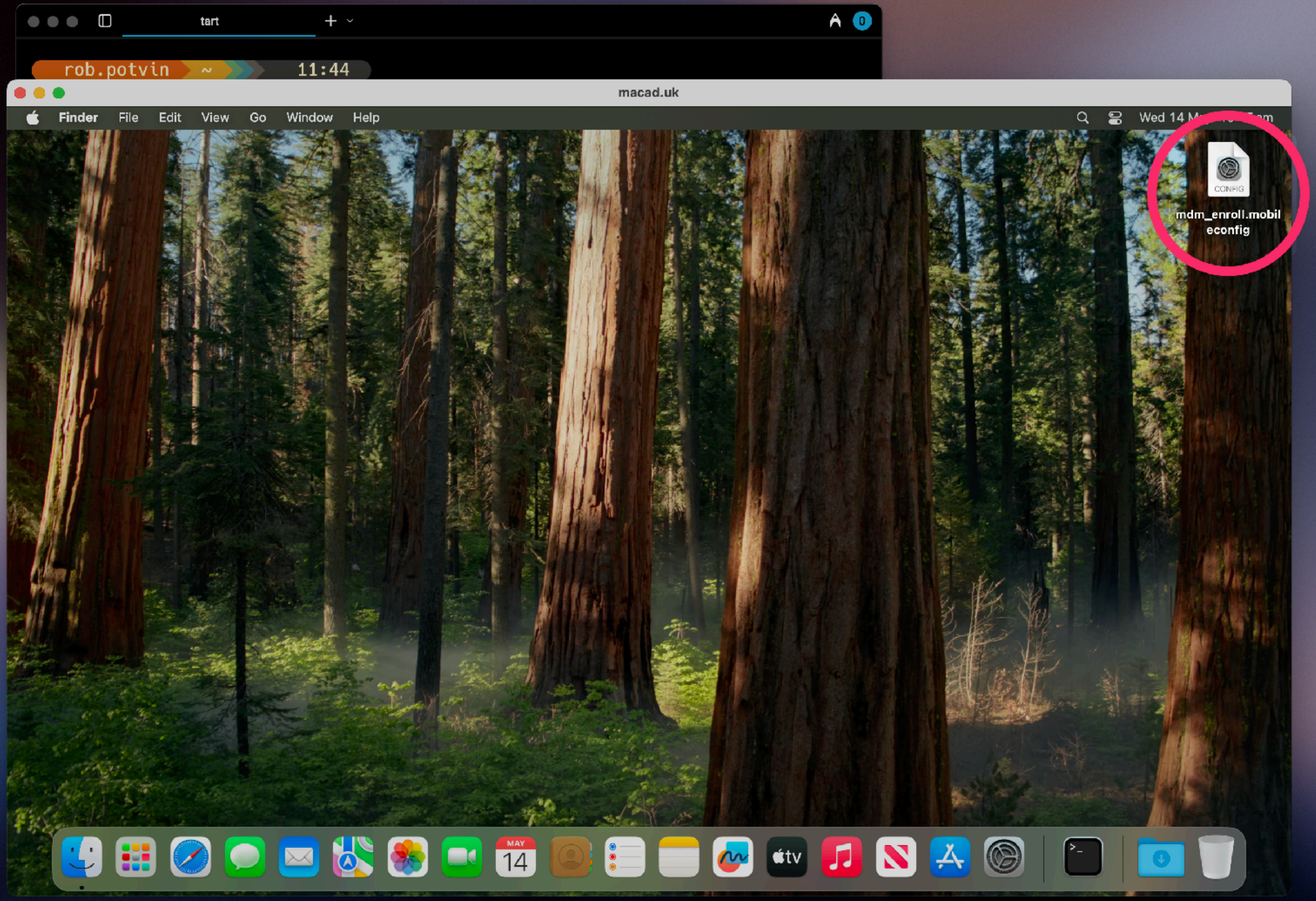
```
rob.potvin  …/ejvm-packer  dev !2  14:31
  tart clone appletart dutch

rob.potvin  …/ejvm-packe
  tart list
Source Name
   Disk Size SizeOnDisk Stat
local  appletart
   50   22   22         stop
local  dutchapple
   50   22   22         stop
local  newvmtest
   50   24   24         stop
local  vmtest
   50   25   25         stop
OCI    ghcr.io/cirruslabs/ma
   50   24   24         stop
OCI    ghcr.io/cirruslabs/ma
13 50   24   24         stop

rob.potvin  …/ejvm-packe
  tart set dutchapple --disp

rob.potvin  …/ejvm-packe
  tart run dutchapple
```

dutchapple

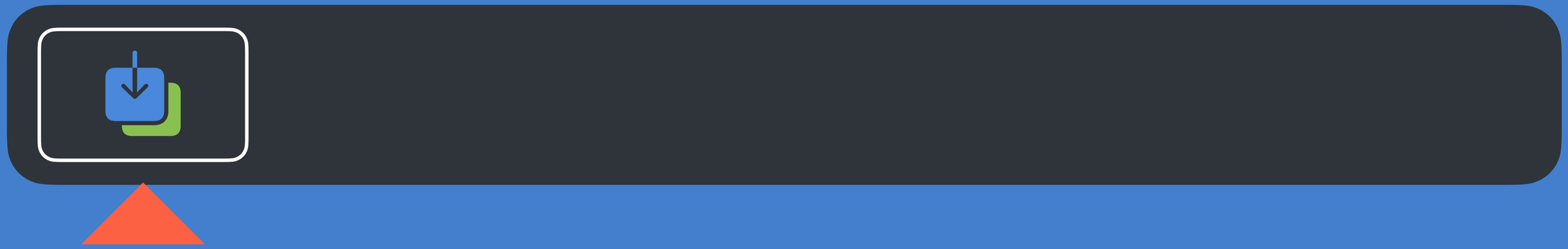
Finder File Edit View Go Window Help Sat 10 May 12:32 pm

Enroll_Your_Mac.webloc

350% Faster


tart
rob.potvin ~ 11:44
macad.uk
Finder File Edit View Go Window Help
Wed 14
CONFIG
mdm_enroll.mobileconfig
MAY
14

Clone



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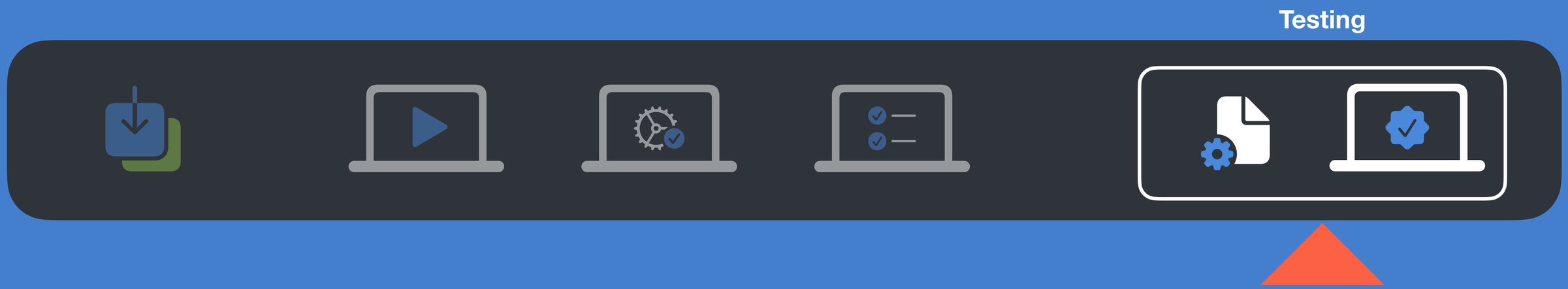


jamf

Baking and Sharing:
Serving Up VMs with OCI Registries

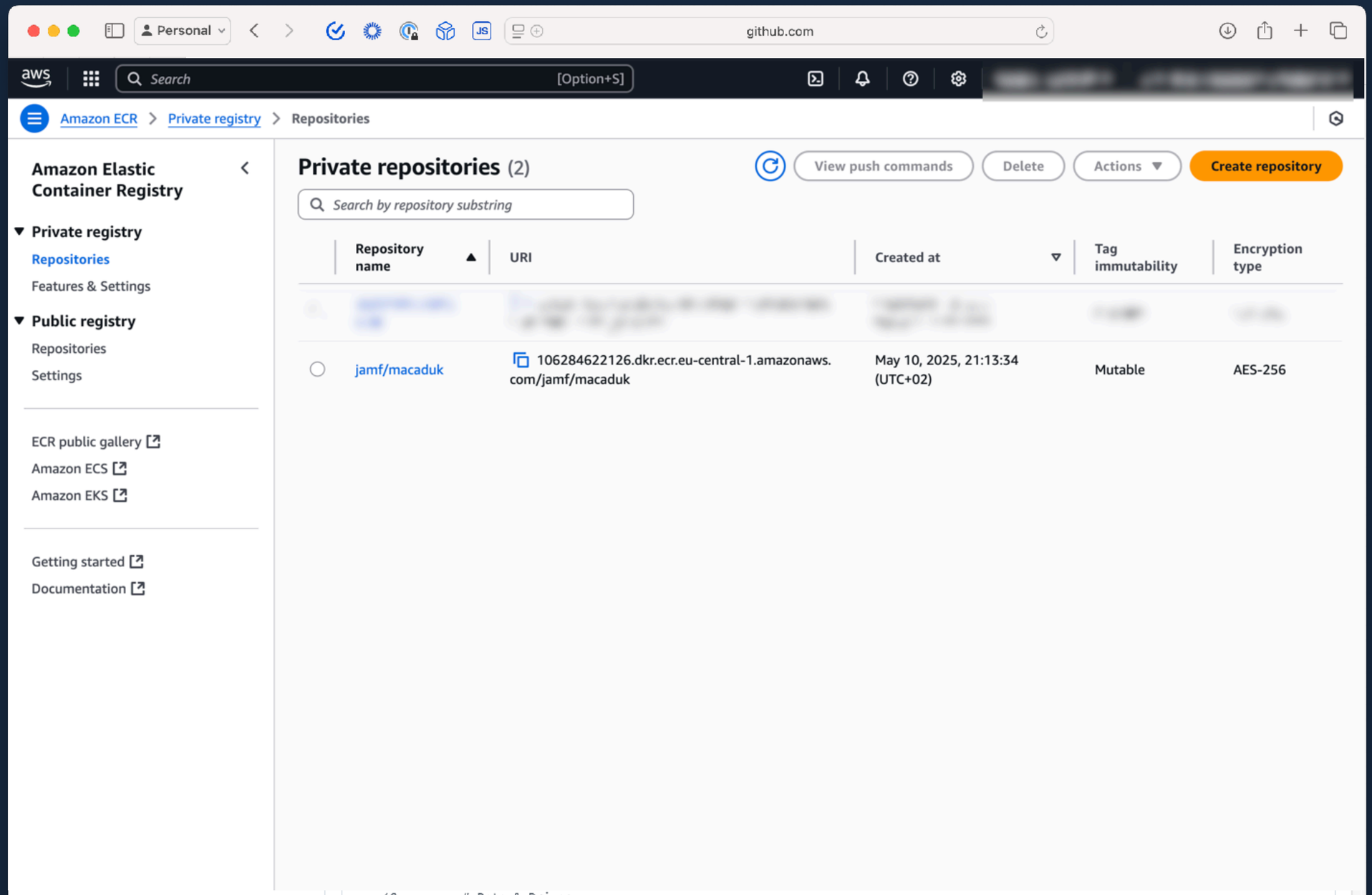
jamf

Sharing is caring

Upload the image

- Use custom-baked images for rapid Jamf Pro workflow testing.
- Amazon ECR to host images
- Minimize manual steps
- Tag each image

jamf


Personal
github.com
aws
Search
[Option+S]
Amazon ECR > Private registry > Repositories
Amazon Elastic Container Registry
Private registry
Repositories
Features & Settings
Public registry
Repositories
Settings
ECR public gallery
Amazon ECS
Amazon EKS
Getting started
Documentation
Private repositories (2)
View push commands
Delete
Actions
Create repository
Search by repository substring
Repository name
URI
Created at
Tag immutability
Encryption type
jamf/macaduk
106284622126.dkr.ecr.eu-central-1.amazonaws.com/jamf/macaduk
May 10, 2025, 21:13:34 (UTC+02)
Mutable
AES-256

Amazon ECR

Personal

github.com

aws

Search [Option+S]

Amazon ECR > Private registry > Repositories > jamf/macaduk

Amazon Elastic Container Registry

- **Private registry**
  - Repositories
    - Summary
    - Images
    - Permissions
    - Lifecycle Policy
    - Repository tags
  - Features & Settings
- **Public registry**
  - Repositories
  - Settings

ECR public gallery

Amazon ECS

Amazon EKS

Getting started

Documentation

Images (1)

Delete | Details | Scan | View push commands

Search artifacts

1

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest	Last recorded pull time
latest	Image	May 10, 2025, 21:26:17 (UTC+02)	19699.96	Copy URI	sha256:f0fc1ce6a85aa38...	-

Amazon ECR

Quick Whip, Fast Bake:
Deploying with Tart

```
tart push dutchapple 106284622126.dkr.ecr.eu-central-1.amazonaws.com/jamf/
macaduk:latest
pushing dutchapple to 106284622126.dkr.ecr.eu-central-1.amazonaws.com/jamf/
macaduk:latest...
pushing config...
pushing disk... this will take a while...
100%
pushing NVRAM...
pushing manifest for latest...
```

jamf

Quick Whip, Fast Bake:
Deploying with Tart

```
tart pull 106284622126.dkr.ecr.eu-central-1.amazonaws.com/jamf/
macaduk:latest
```

jamf

The Taste Test:
Rapid MDM Enrollment & Workflow Testing

jamf

macad.uk
Personal

Pro

Full Jamf Pro

Computers : Smart Computer Groups

All Managed Clients

Computer Group | Criteria | Reports

AND/OR		CRITERIA	OPERATOR	VALUE			
		Operating System	not like	server			Delete
and		Application Title	is not	Server.app			Delete
and		Model	is not	VirtualMac2,1			Delete

+ Add

macad.uk
Personal

1 match | Begins with | vm | Done

Pro

Full Jamf Pro

Computers : Smart Computer Groups

Apple Silicon - VMs

Computer Group | Criteria | Reports

AND/OR	CRITERIA	OPERATOR	VALUE	
	Model	like	VirtualMac2,1	Delete

+ Add

macad.uk
Personal

Pro

Full Jamf Pro

Computers

Inventory

- Search Inventory
- Search Volume Content
- Licensed Software

Content Management

- Policies
- Configuration Profiles
- Software Updates
- Restricted Software
- Mac Apps
- Patch Management
- eBooks

Groups

- **Smart Computer Groups**
- Static Computer Groups

Computers : Smart Computer Groups

Apple Silicon - VMs

Computer Group | Criteria | Reports

Show in Jamf Pro Dashboard

Display Name

Display name for the smart computer group

Apple Silicon - VMs

Send email notification on membership change

When group membership changes, send an email notification to Jamf Pro users with email notifications enabled. An SMTP server must be set up in Jamf Pro for this to work

Site

Site to add the smart computer group to

None

History | View | Clone | Delete | Edit

The Cake’s Baked,
But the Sprinkles May Slide Off

- Attestation
- Certificates
- Package deployment for VPP
- Anything USB (no mappings to hardware)
- Video (no cameras)
- And all that other stuff

jamf

Screen Sharing: Because Every Recipe Needs a Little Copy-Paste

- Packer template enabled
- Easy access VM via VNC
- Run VM headless
- Clipboard works flawlessly

jamf

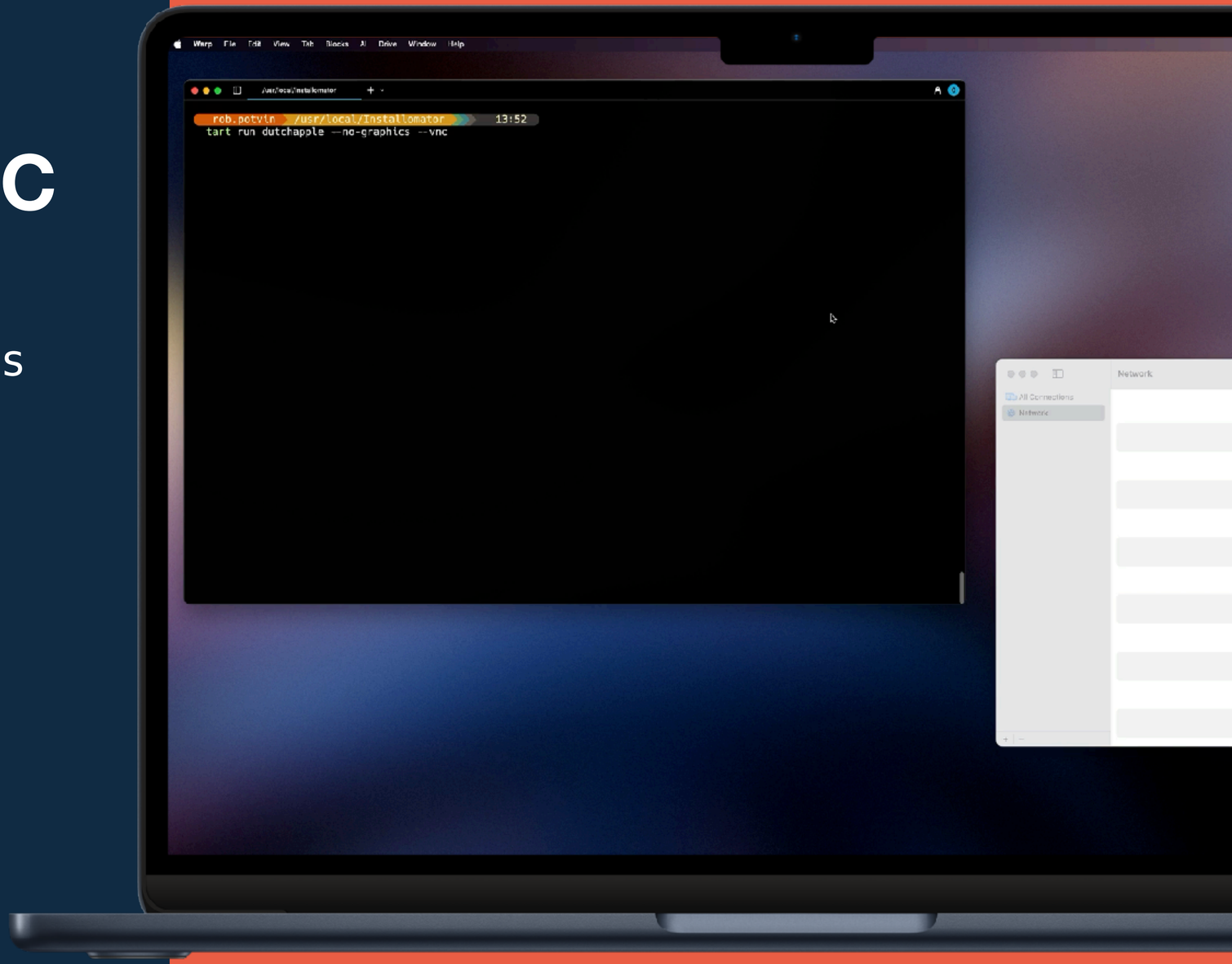
We Knead That Clipboard — **Enter VNC**

- `tart run --vnc --no-graphics`

  Starts headless with vnc

- `tart run --vnc-experimental`

  Tool for recovery partition



jamf

Warp File Edit View Tab Blocks AI Drive Window Help

Mon May 12 13:52

/usr/local/Installomator

```
rob.potvin  /usr/local/Installomator  13:52
tart run dutchapple --no-graphics --vnc
```

Network

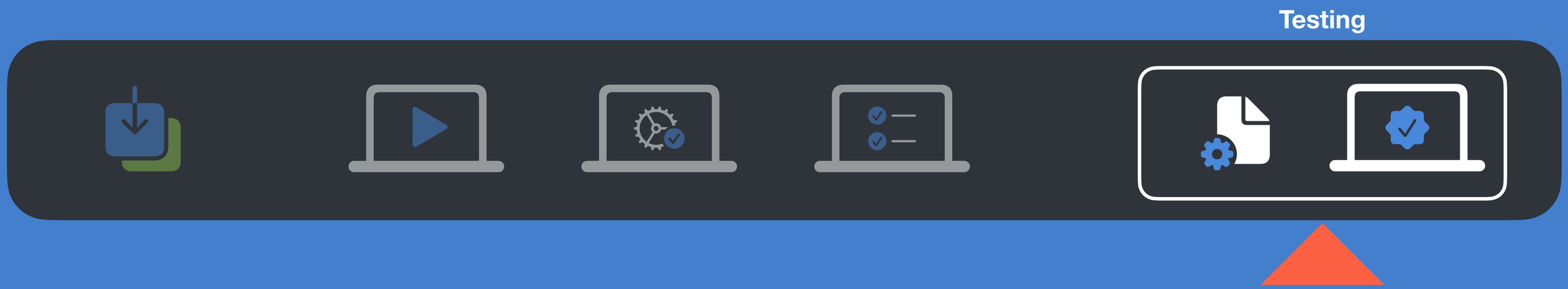
Search

All Connections

Network

Serving Suggestions:
Takeaways for the Modern Mac Admin Baker

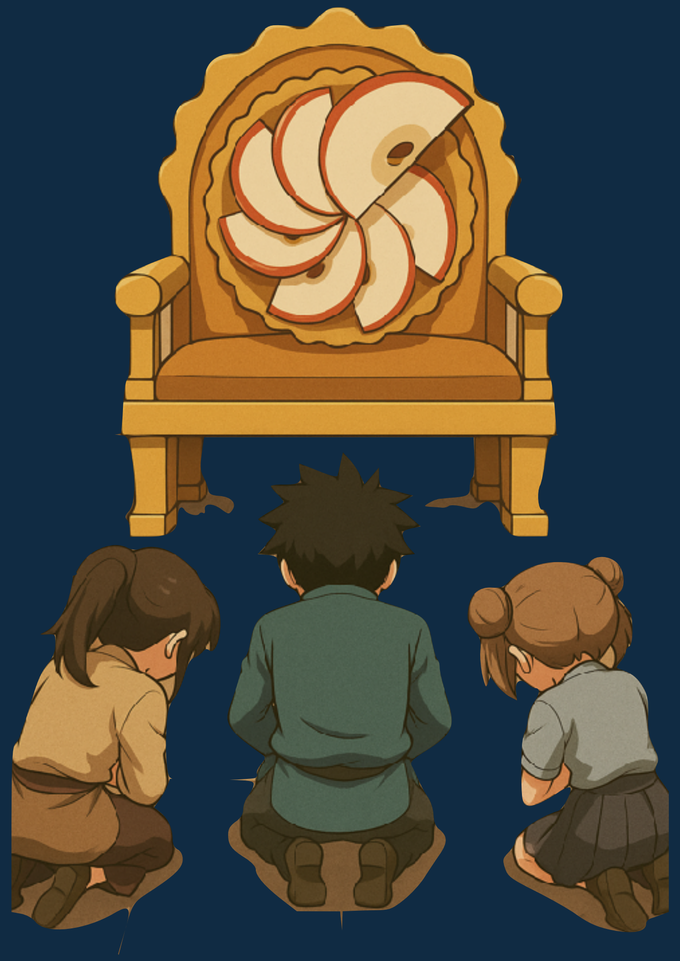
jamf



jamf

Cooling on the Rack: Your Workflow in a Nutshell

- tart is awesome
- CI/CD - but for macadmins
- VMs are disposable
- Test workflows
- Use Self Service Onboarding or Setup Manager
- This is just the start with tart

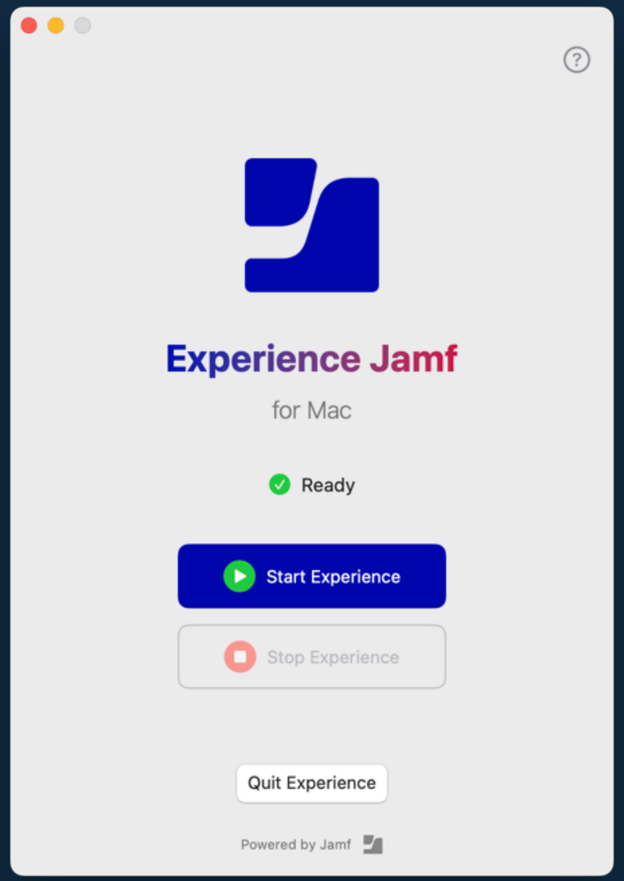


jamf

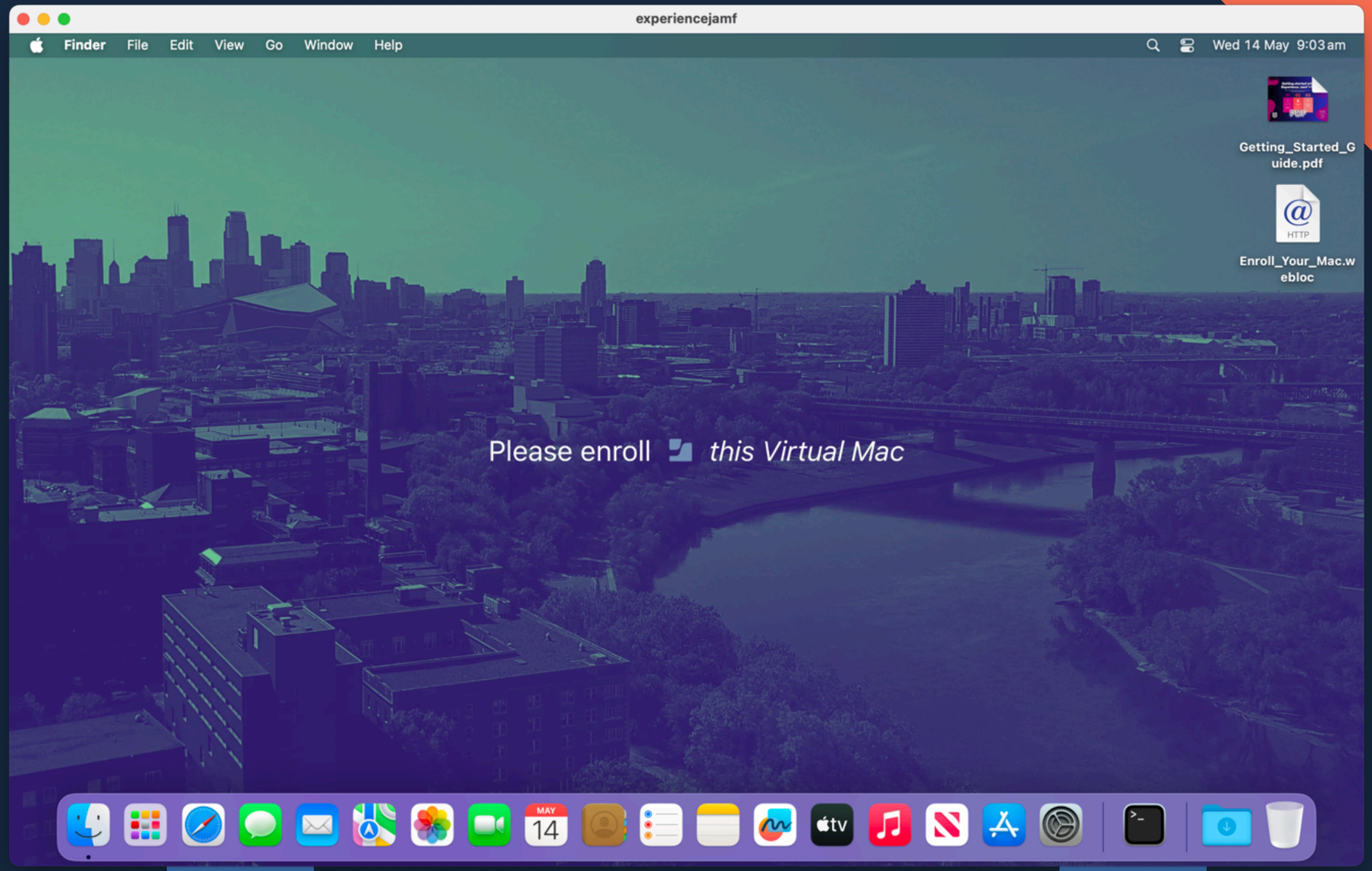
Tart: Peeling Back the Layers to the Good Bits

- Using Xcode and SwiftUI with tart
- Using Python flask with tart

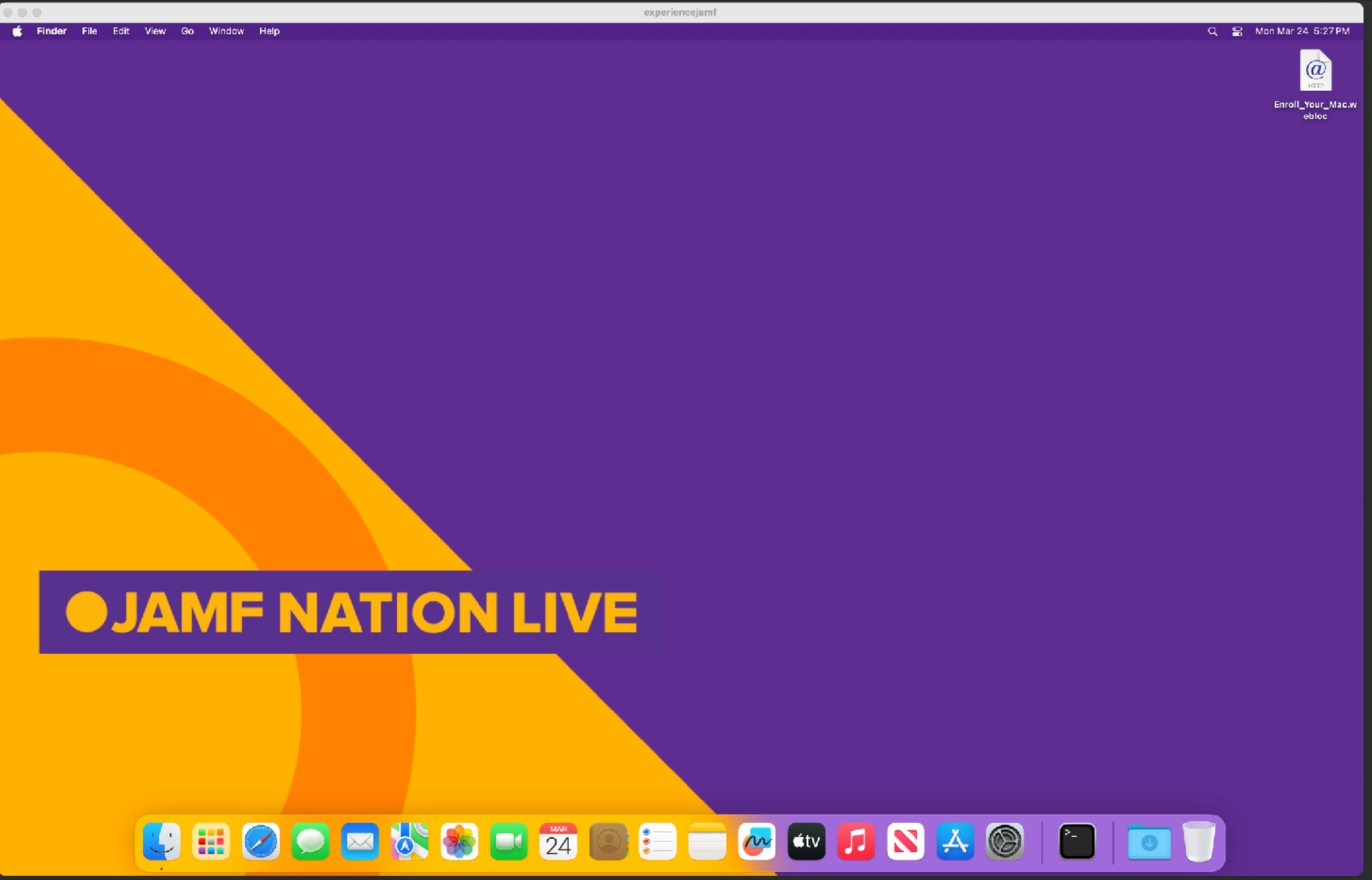
jamf

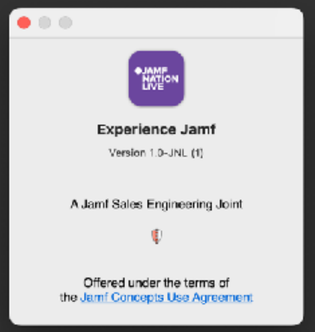

Experience Jamf
for Mac
Ready
Start Experience
Stop Experience
Quit Experience
Powered by Jamf

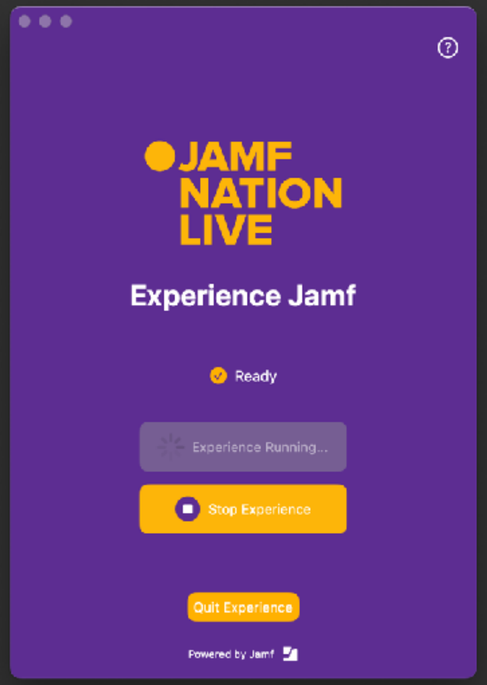
jamf

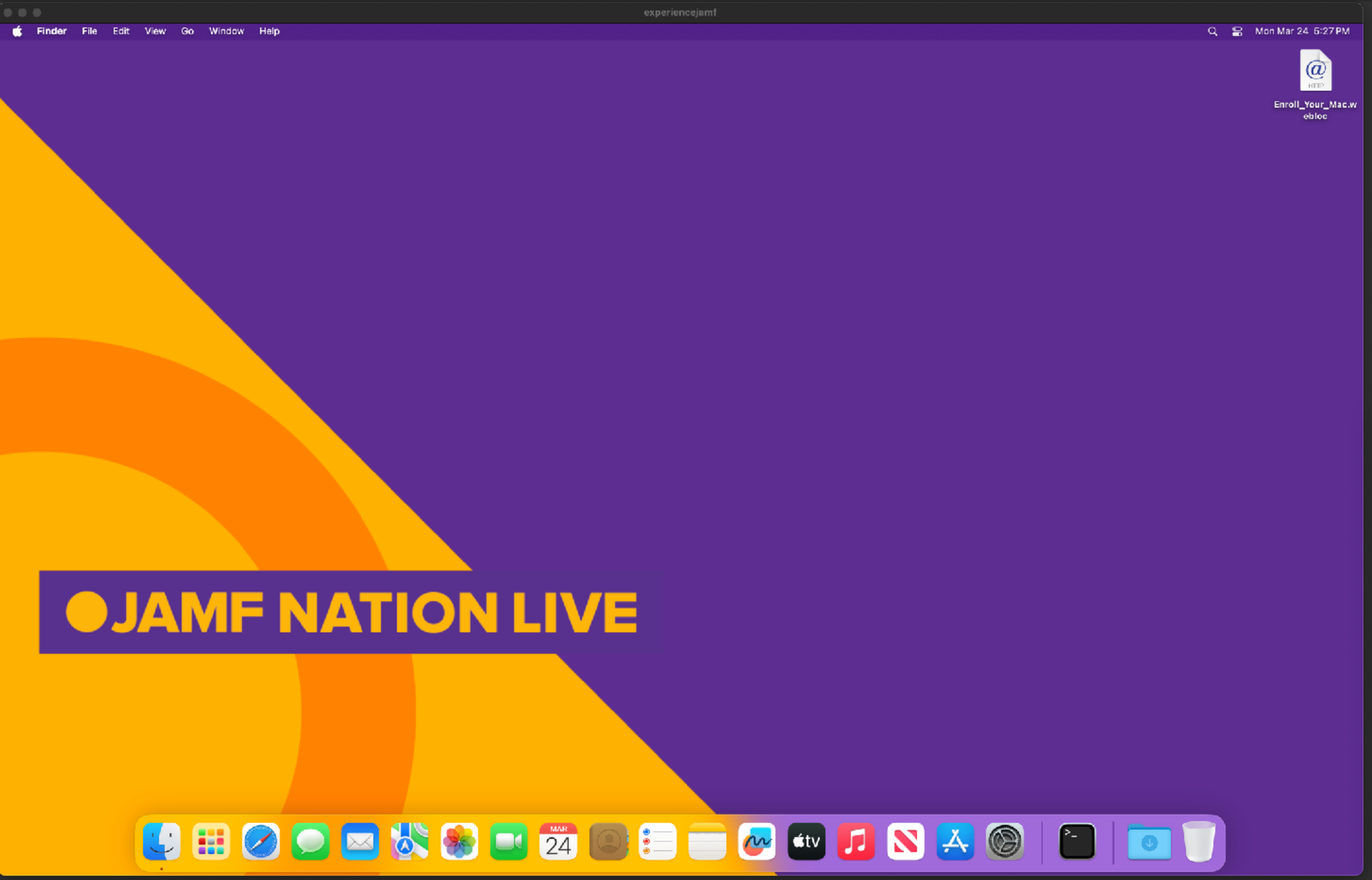

experiencejamf
Finder File Edit View Go Window Help
Wed 14 May 9:03 am
Getting_Started_Guide.pdf
Enroll_Your_Mac.webloc
Please enroll this Virtual Mac

jamf


experiencejamf
Finder File Edit View Go Window Help
Mon Mar 24 5:27 PM
Enroll_Your_Mac.webloc
JAMF NATION LIVE


Experience Jamf
Version 1.0-JNL (1)
A Jamf Sales Engineering Joint
Offered under the terms of
the Jamf Concepts Use Agreement


JAMF NATION LIVE
Experience Jamf
Ready
Experience Running...
Stop Experience
Quit Experience
Powered by Jamf


experiencejamf
Finder File Edit View Go Window Help
Mon Mar 24 5:27 PM
Enroll_Your_Mac.webloc
JAMF NATION LIVE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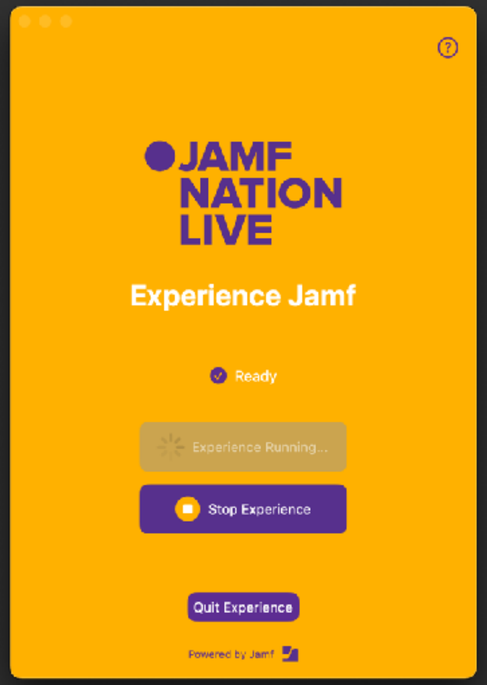
JAMF NATION LIVE
Experience Jamf
Ready
Experience Running...
Stop Experience
Quit Experience
Powered by Jamf

Jamf 127.0.0.1 Open in Work - Jamf ⌘O

macOS VM Manager

Virtual Machines

Manage your macOS Virtualization Framework VMs

+ New VM

Grid List

experiencejamf Stopped
macOS Unknown

4	8	30
CPUs	GB RAM	GB Disk

Start Details

Test Stopped
macOS Unknown

4	8	50
CPUs	GB RAM	GB Disk

Start Details

jamf

Leftovers You'll Love: Blog Preview & Handy Resources

- Cook Book online
  - `motionbug.com`
- Recipes for what you need
- My daughter hopes that I win this bakeoff

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Q&A

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Thank You

jamf