

William SmithJamf@talkingmoose



Configure Jamf Pro SMTP for Microsoft Modern Auth and Google OAuth2

1 | What is Microsoft Modern Auth (aka modern authentication)?

A comparison to simple authentication

2 | Microsoft configuration walkthrough

Step-by-step configuration from Microsoft Entra ID to Exchange Online to Jamf Pro

3 | What is Identity and Access Management?

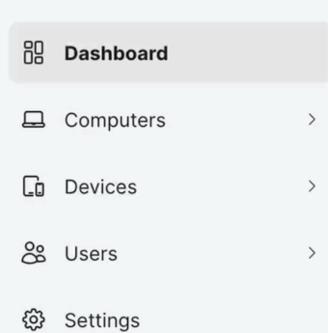
A comparison to simple authentication and Microsoft Modern Auth

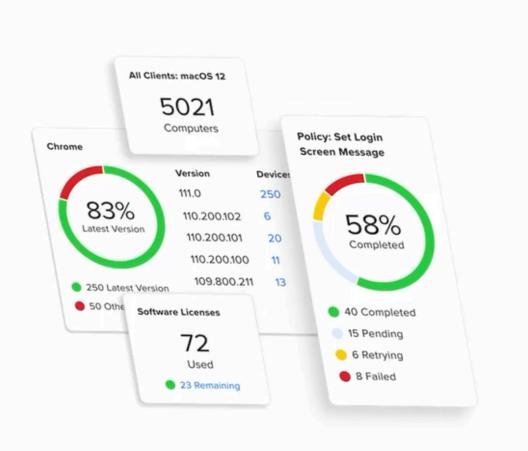
4 Google configuration walkthrough

Step-by-step configuration from Google Workspace to Jamf Pro

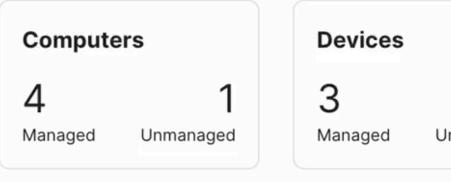
Sending administrators and end users email from Jamf Pro

- Pro





$\, \sim \,$ Inventory Information





Version 11.8.0-b.1.t1720621333

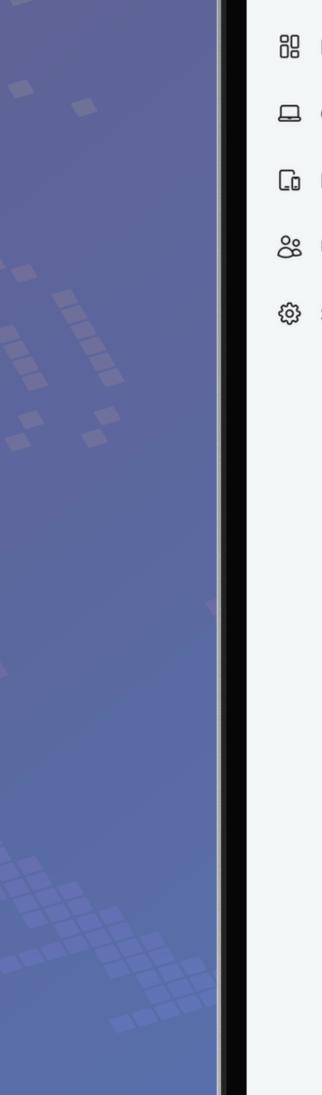
Jamf Pro Dashboard

The Jamf Pro Dashboard provides a visual overview of the things you care about most in your environment. Add important items to your Dashboard to quickly and easily monitor their statuses.









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Dashboard
Computers
Devices
Users
Settings

Account Settings

Notifications

EVENT TYPE

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A new Jamf Connect version is available for do

A new Jamf Protect version is available for down

An instance of the Jamf Pro web application in

An updated patch reporting software title is av

Computer is enrolled using PreStage

Database backup fails

Database backup succeeds

Error occurs when policy runs

Jamf Pro account is locked out because of exc

Jamf Pro fails to add file to cloud distribution

Jamf Pro is unable to communicate with your

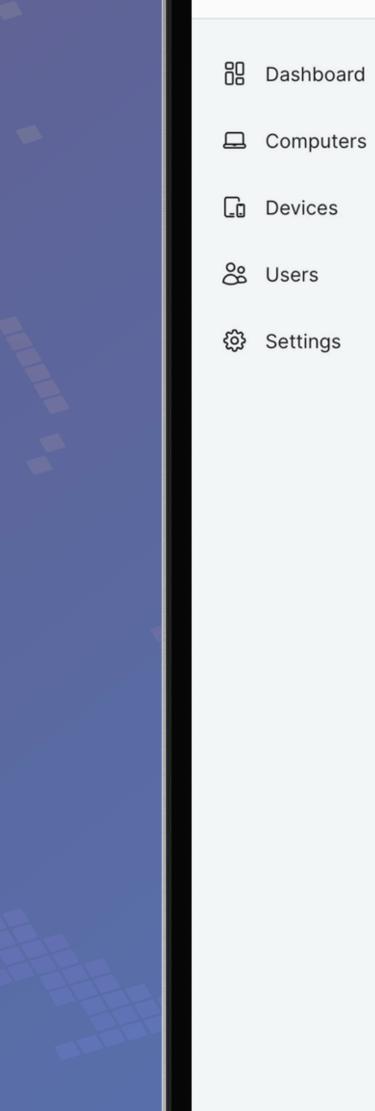
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Account Settings

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Account Settings

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Restricted software violation occurs

Smart computer group membership changes

Smart mobile device group membership chang

Smart user group membership changes

Tomcat is started or stopped

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	eBooks	
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	Smart Computer Groups	
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	Classes	



for 30 days

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for 30 days

Show in Jamf Pro Dashboard

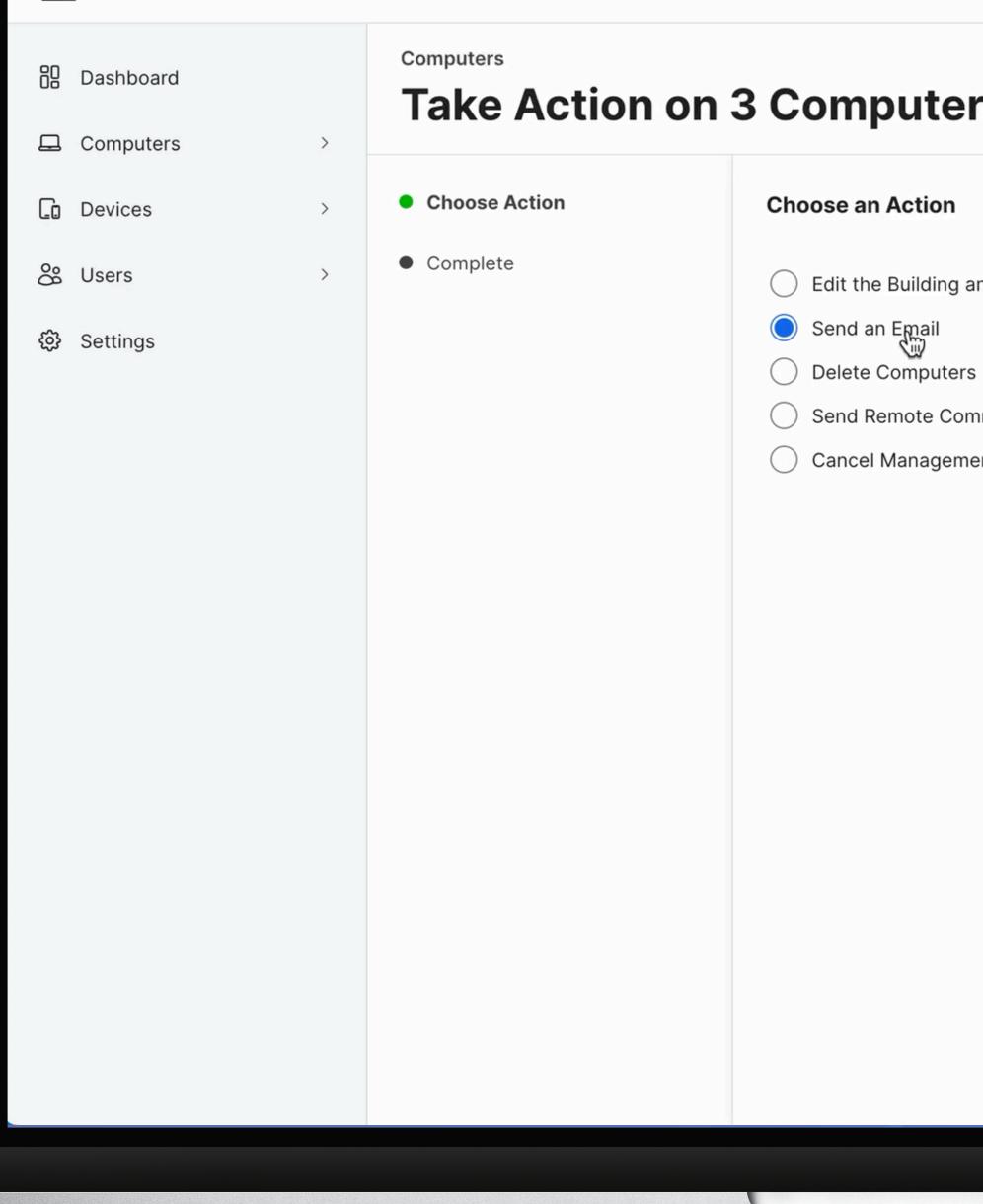
tification to Jamf Pro users with email notifications enabled. An SMTP server must be set up in Jamf Pro for this

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Take Action on 3 Computers in "Computers missig for 30 days"

Edit the Building and Department

Send Remote Commands

Cancel Management Commands

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What is Modern Auth?

What is Modern Auth?

Simple Authentication This is what Jamf Pro uses today Basic username + password aka Single-Factor Authentication Every time credentials are sent to the server is an opportunity for a bad actor to intercept those credentials Susceptible to social engineering attacks

Modern Authentication Continuous and adaptive authentication Multi-factor Authentication Biometrics Types of activity IP address and Geography Times of the day or week Risk assessment engine Tokens instead of username + password

Simple authentication

Jamf Pro

Microsoft

Name and password

Come on in!



Modern authentication

Jamf Pro

Token + App ID + Client secret



Name and password

Token

App Token





Walkthrough

Configure Jamf Pro SMTP to use Modern Auth

- 1. Create an app in Microsoft Entra ID for Jamf Pro to access (similar to a user account)
- 2. Create a mail-enabled security group in Microsoft Exchange Online
- 3. Use PowerShell to create a new service principal and new management role assignment
- 4. Configure SMTP server settings in Jamf Pro to use the Microsoft Graph API

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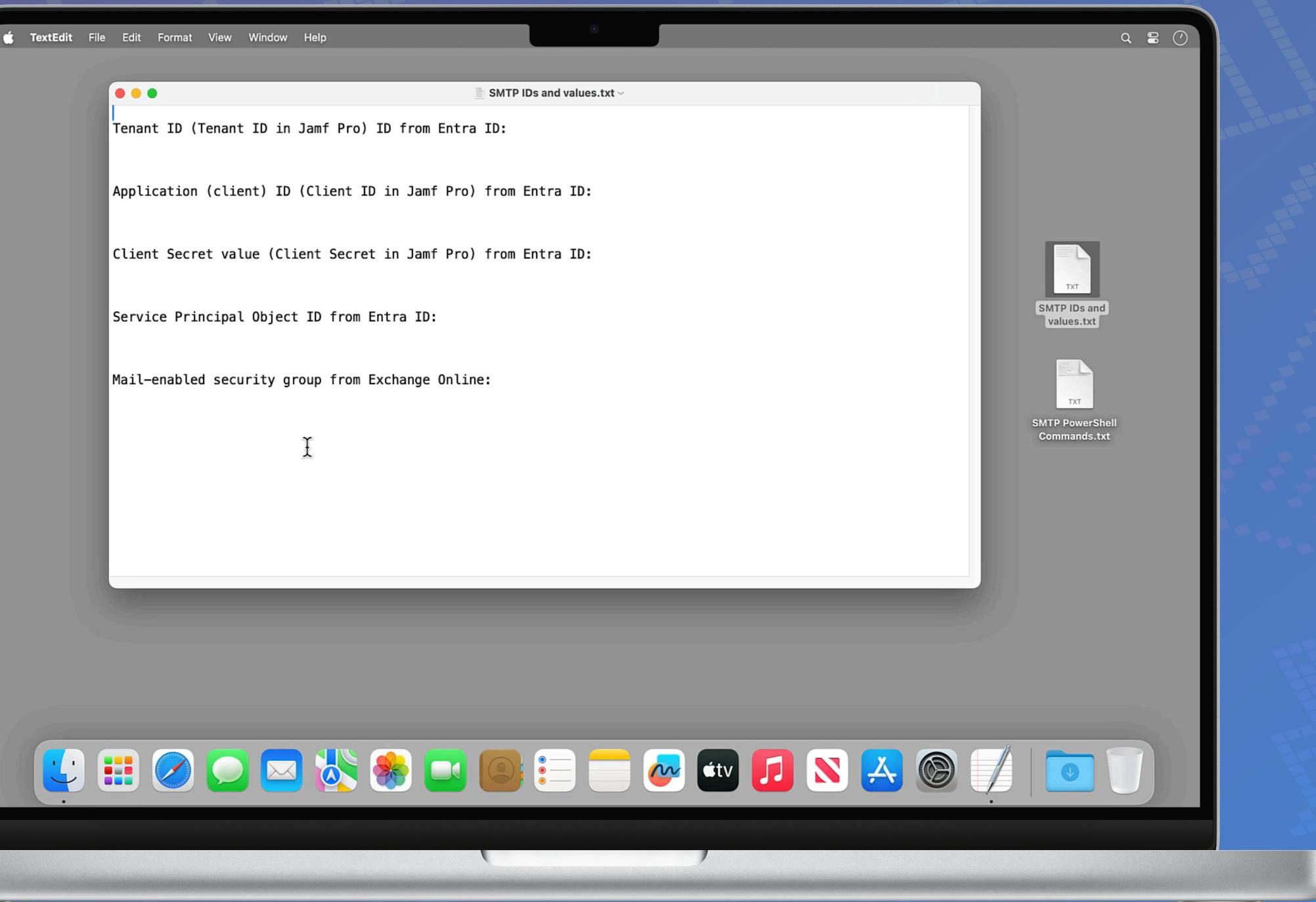
SMTP IDs and values.txt



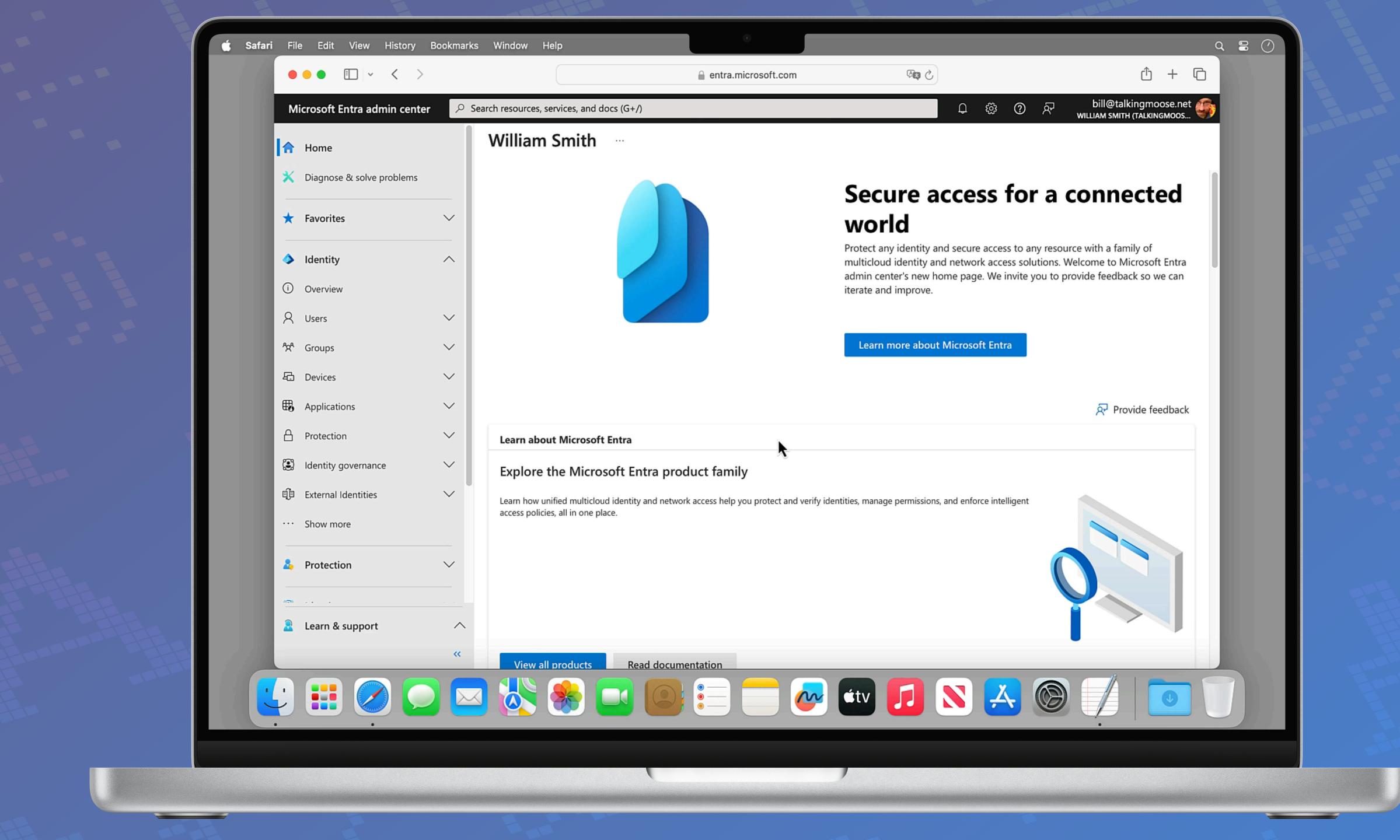
SMTP PowerShell Commands.txt







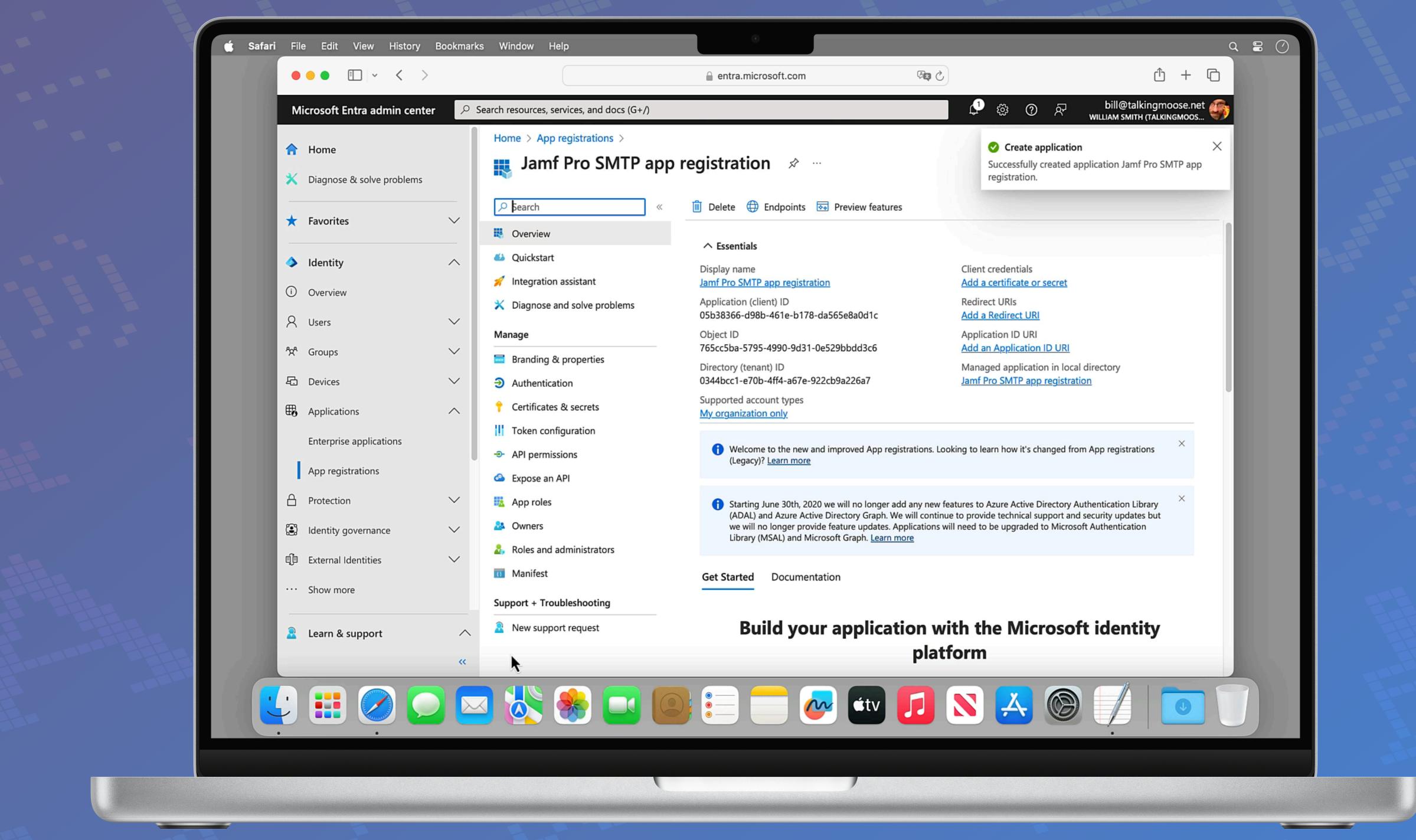




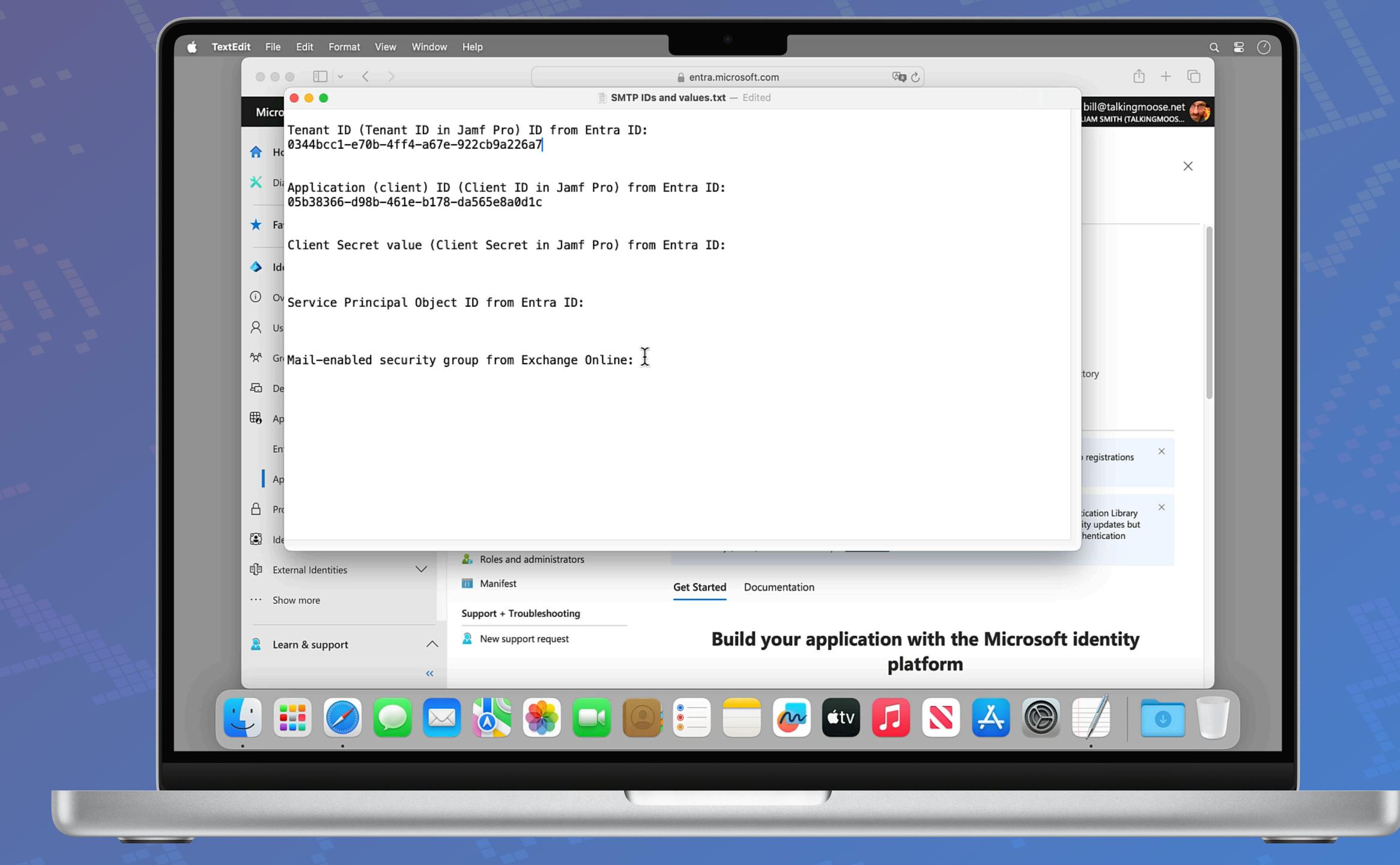


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Learn & support

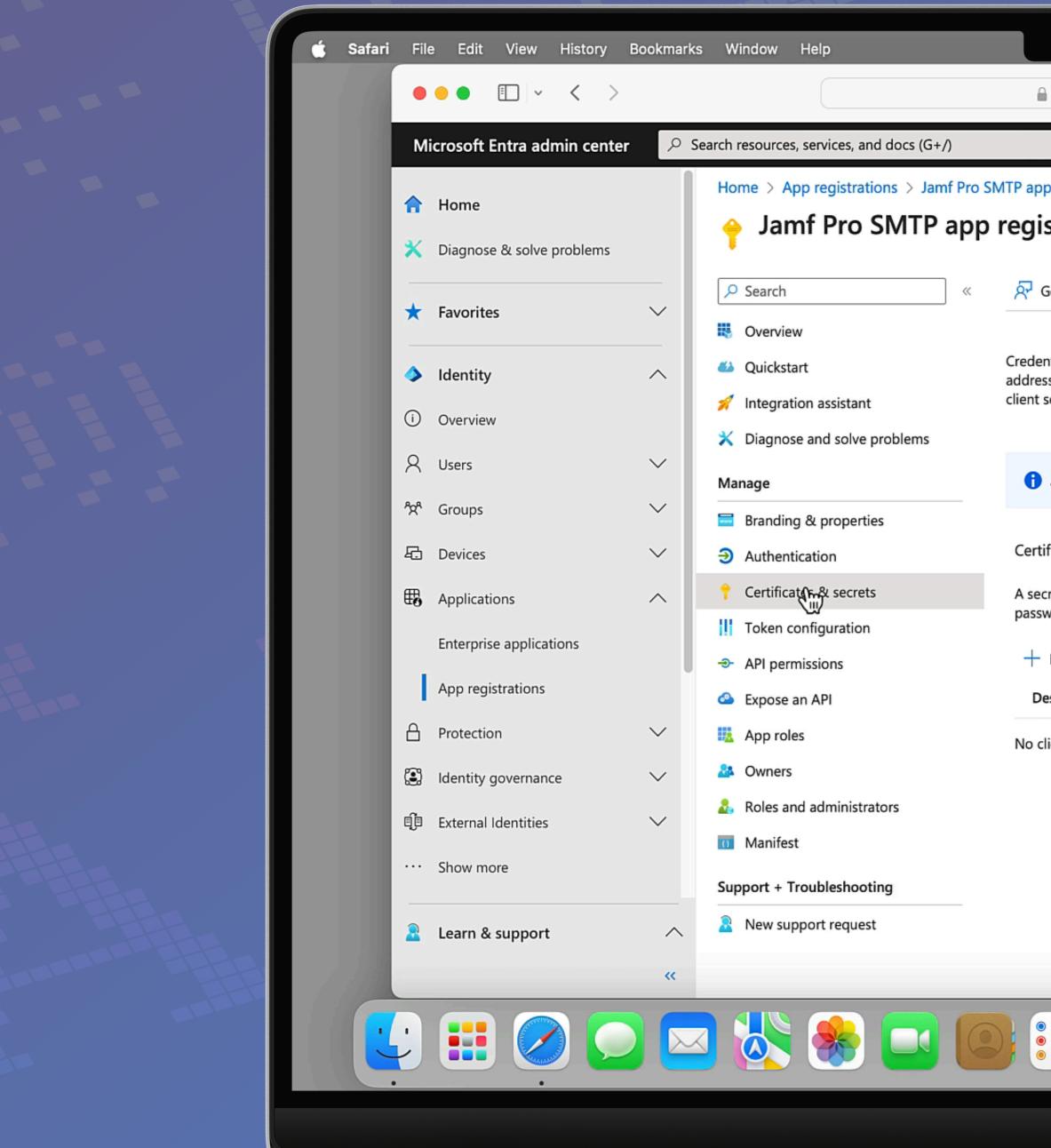






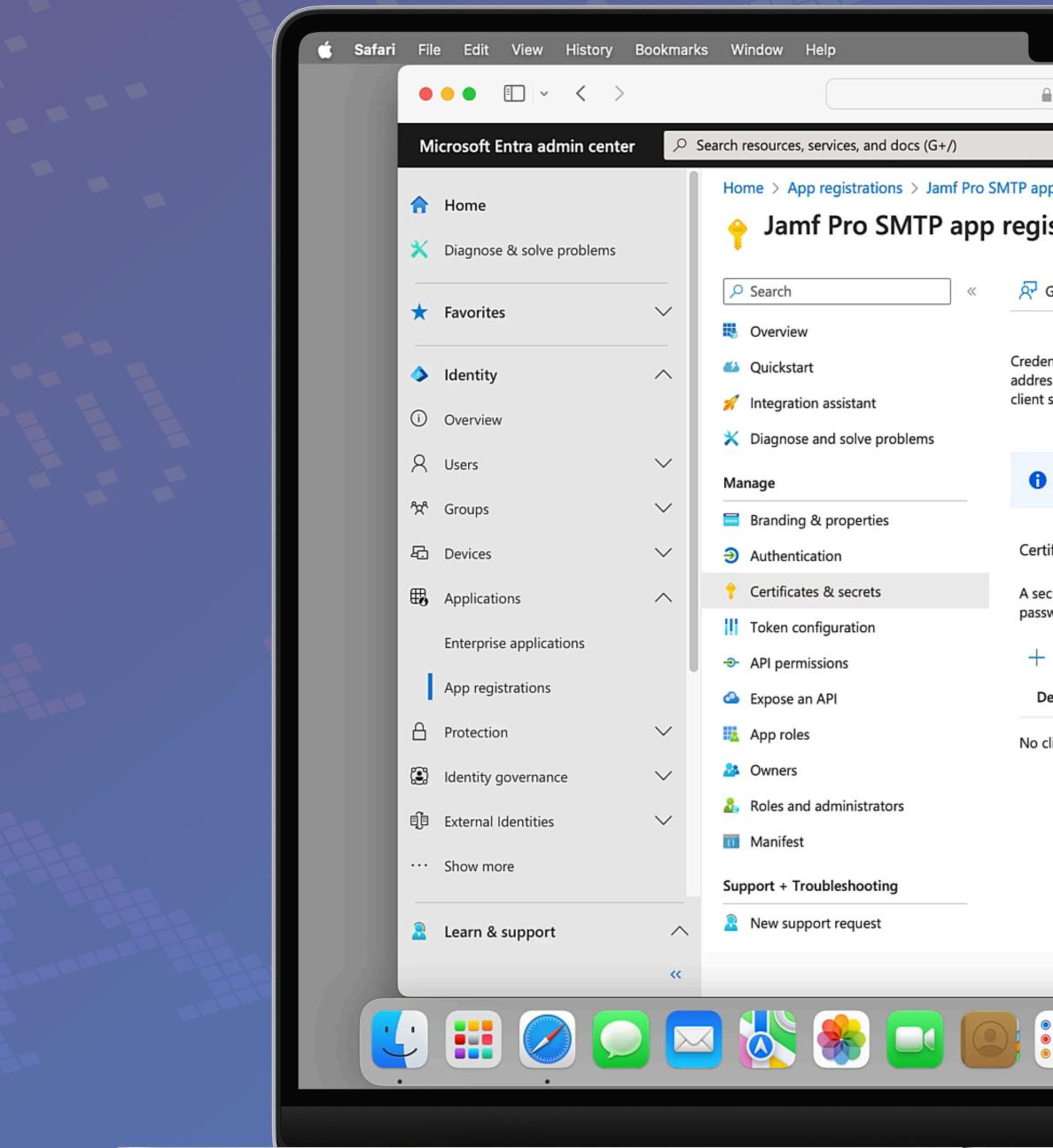






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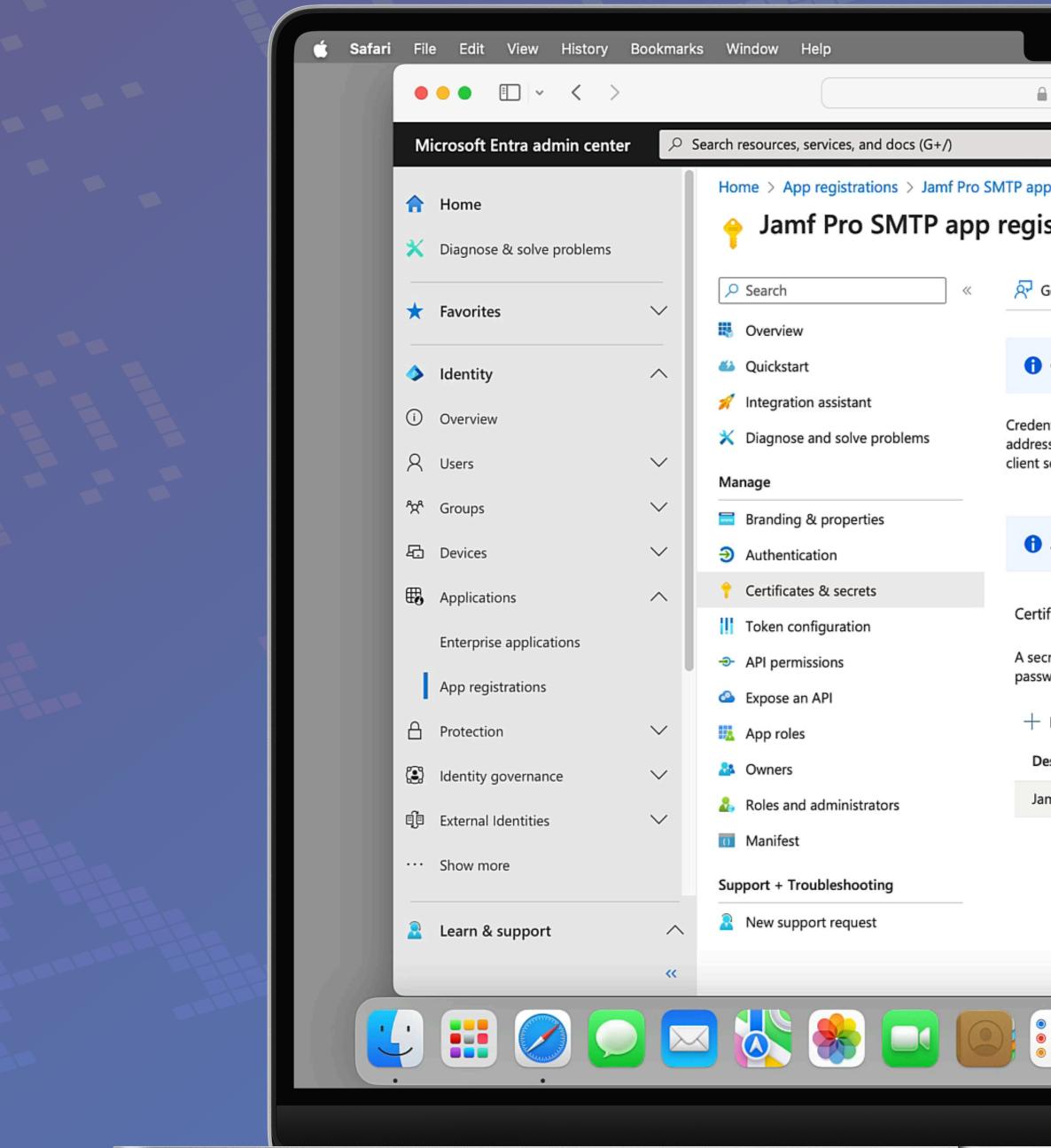




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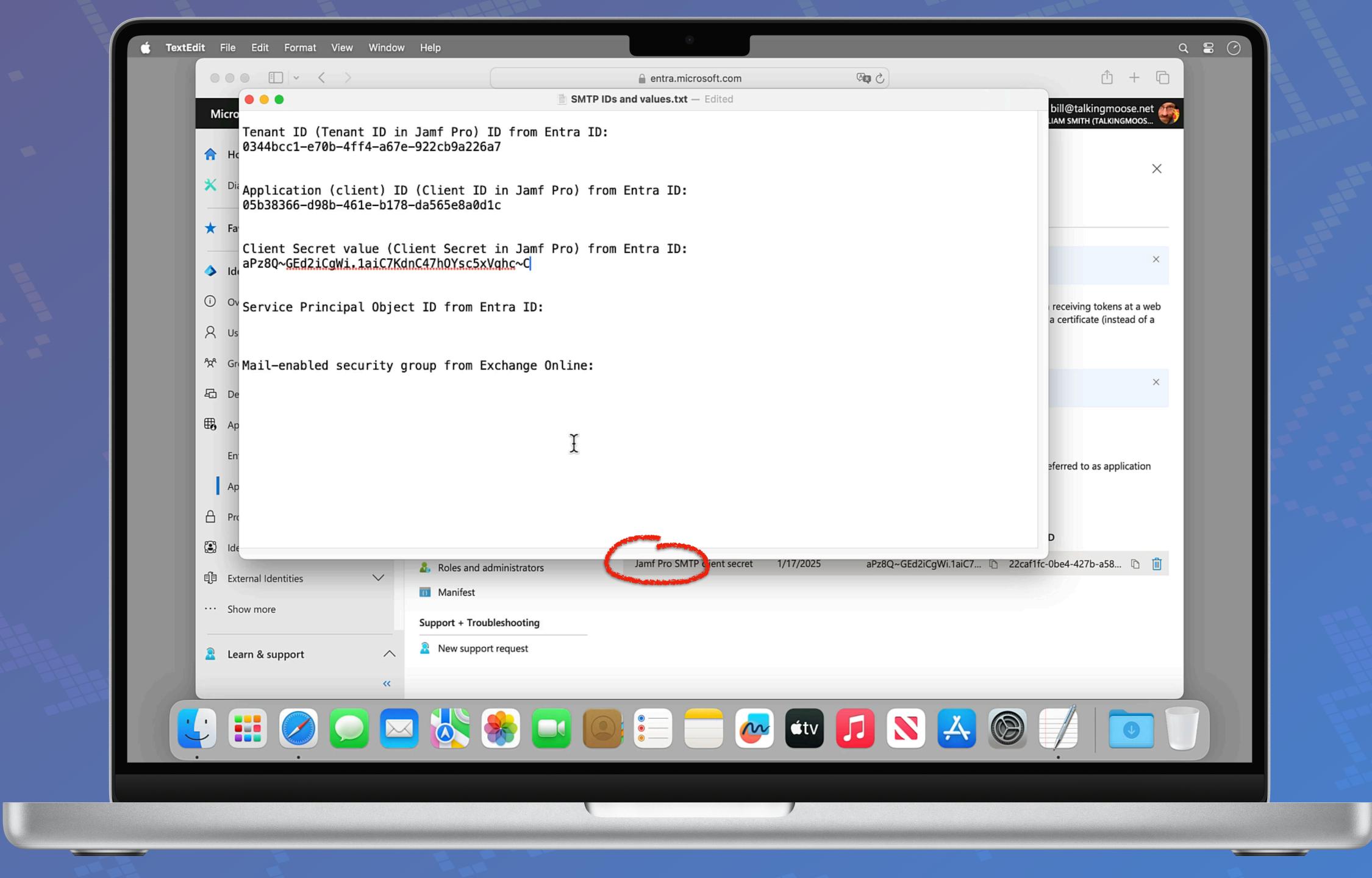
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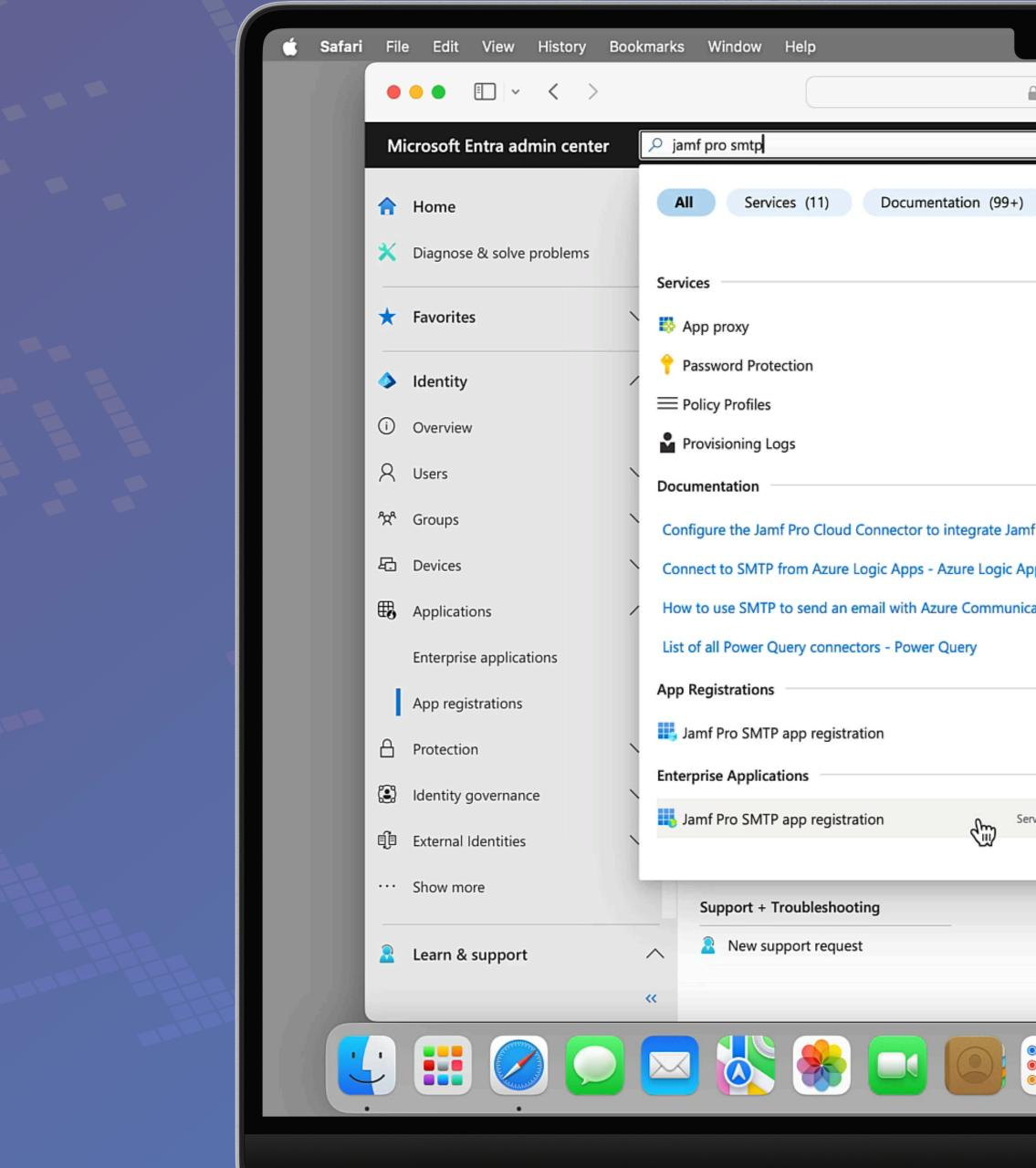


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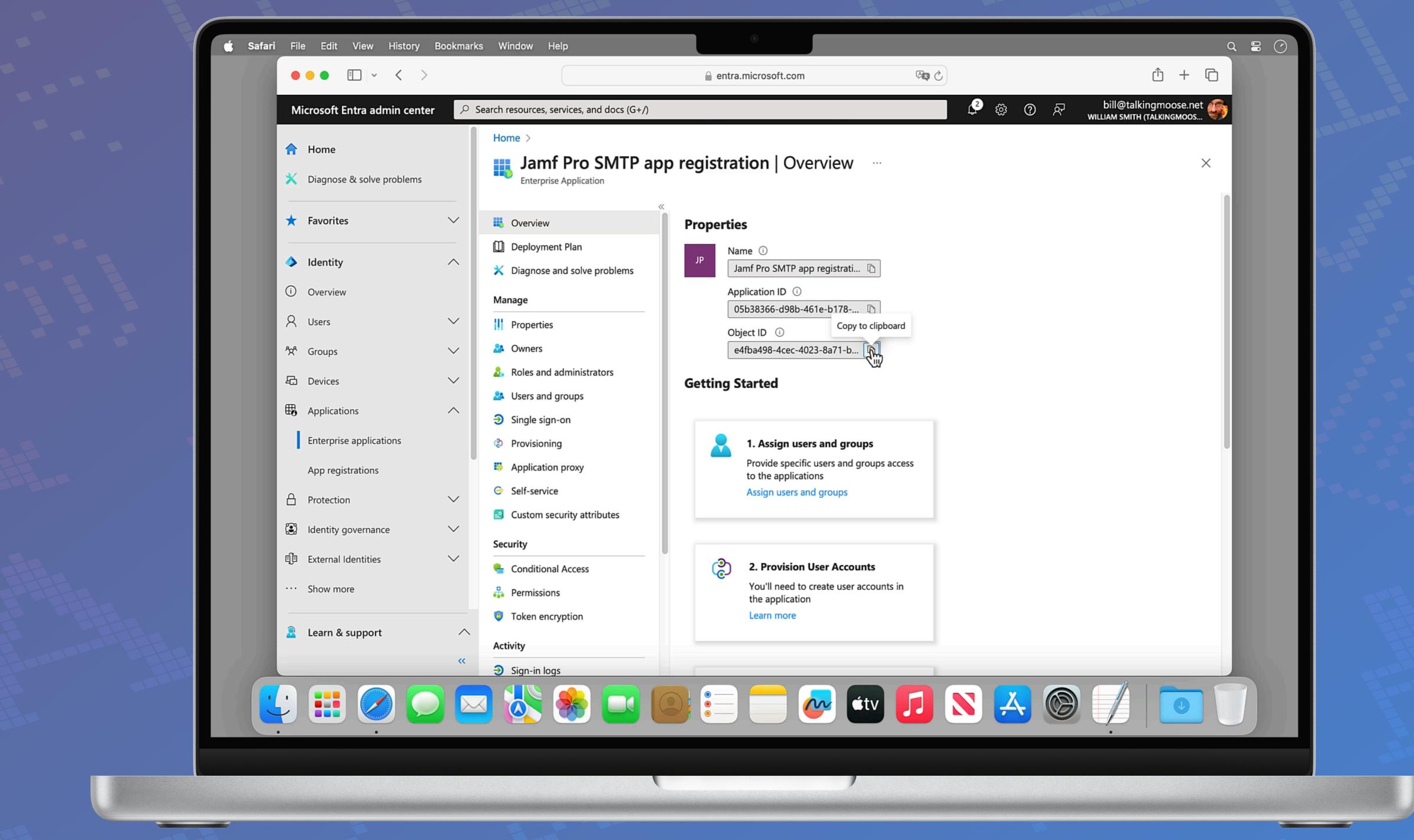




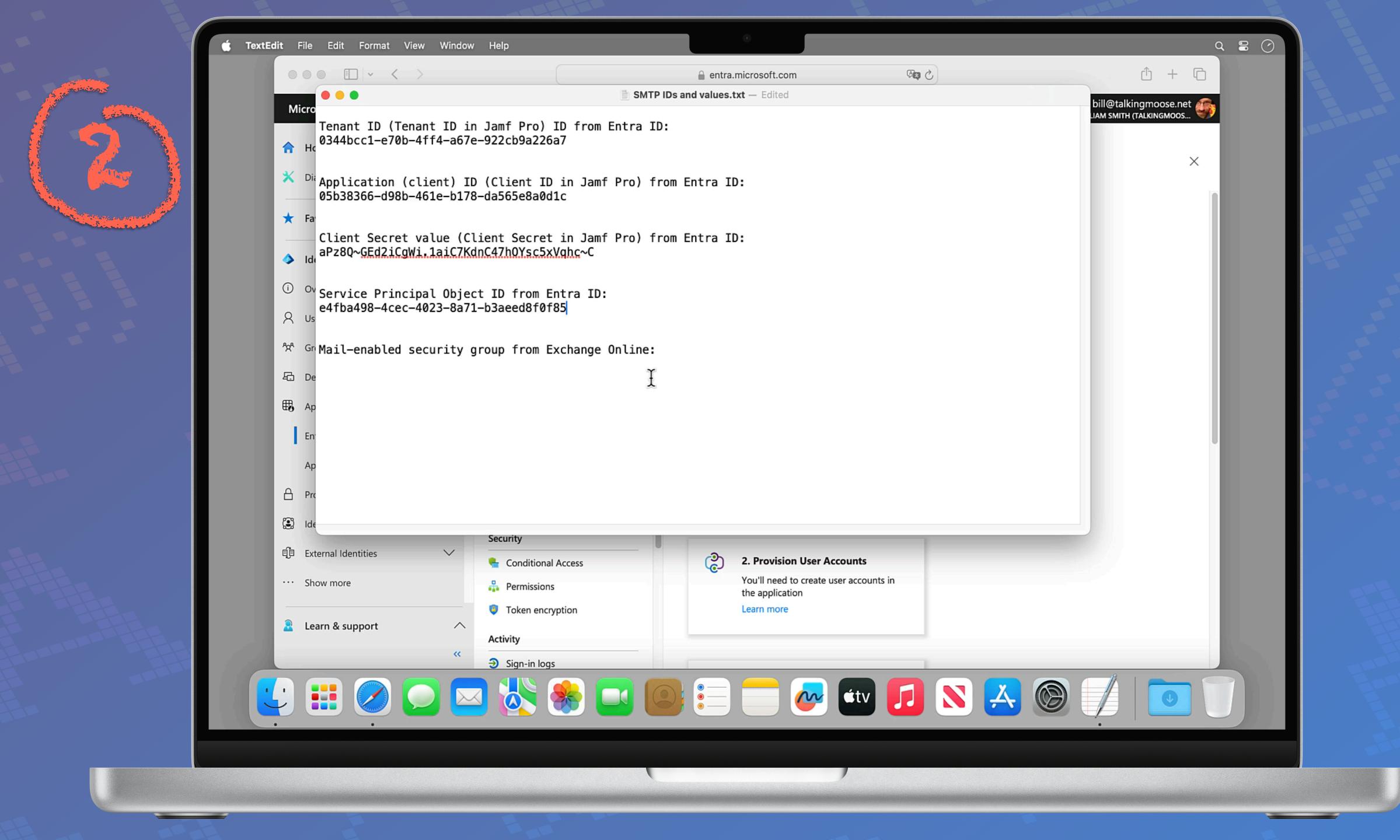


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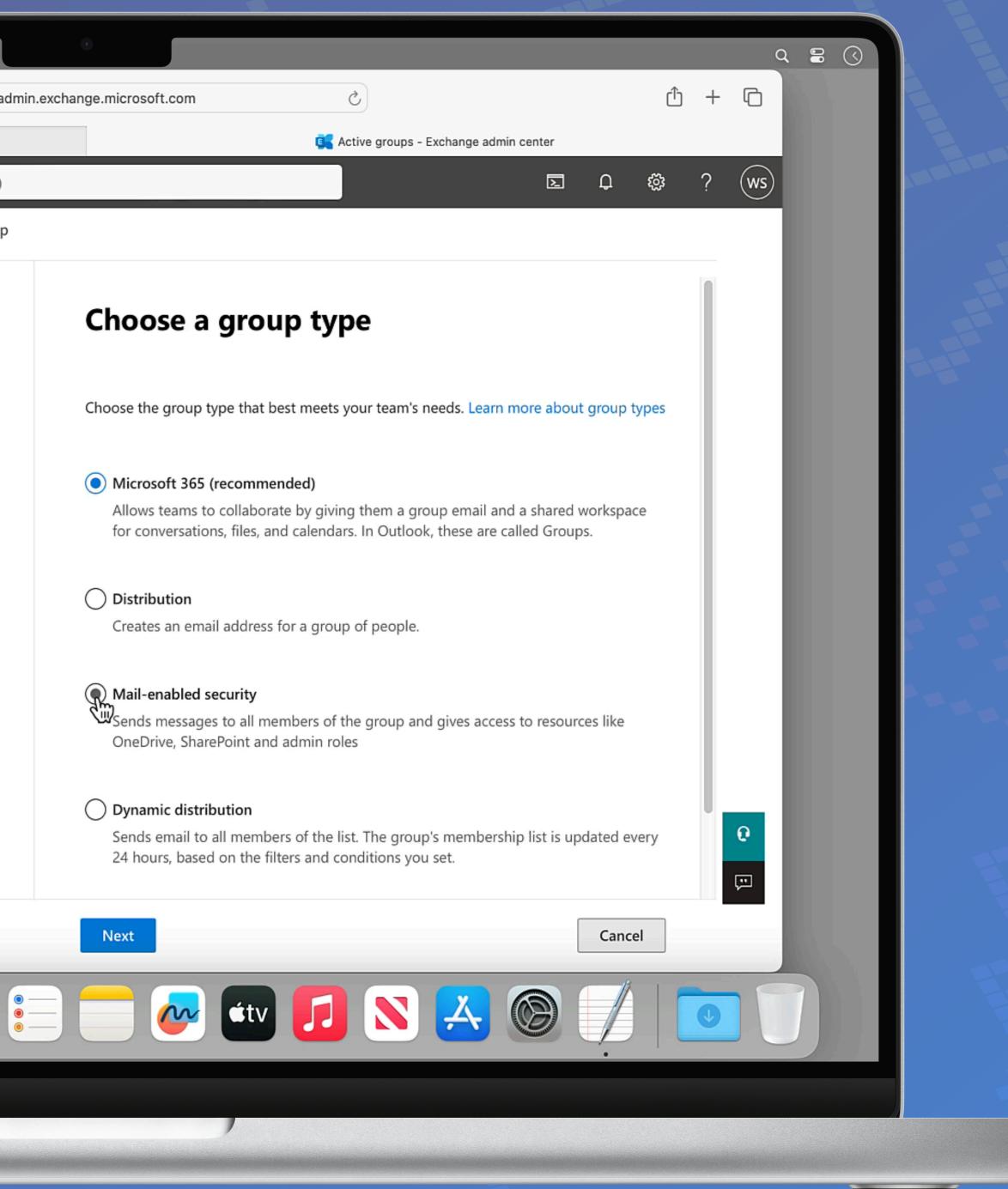
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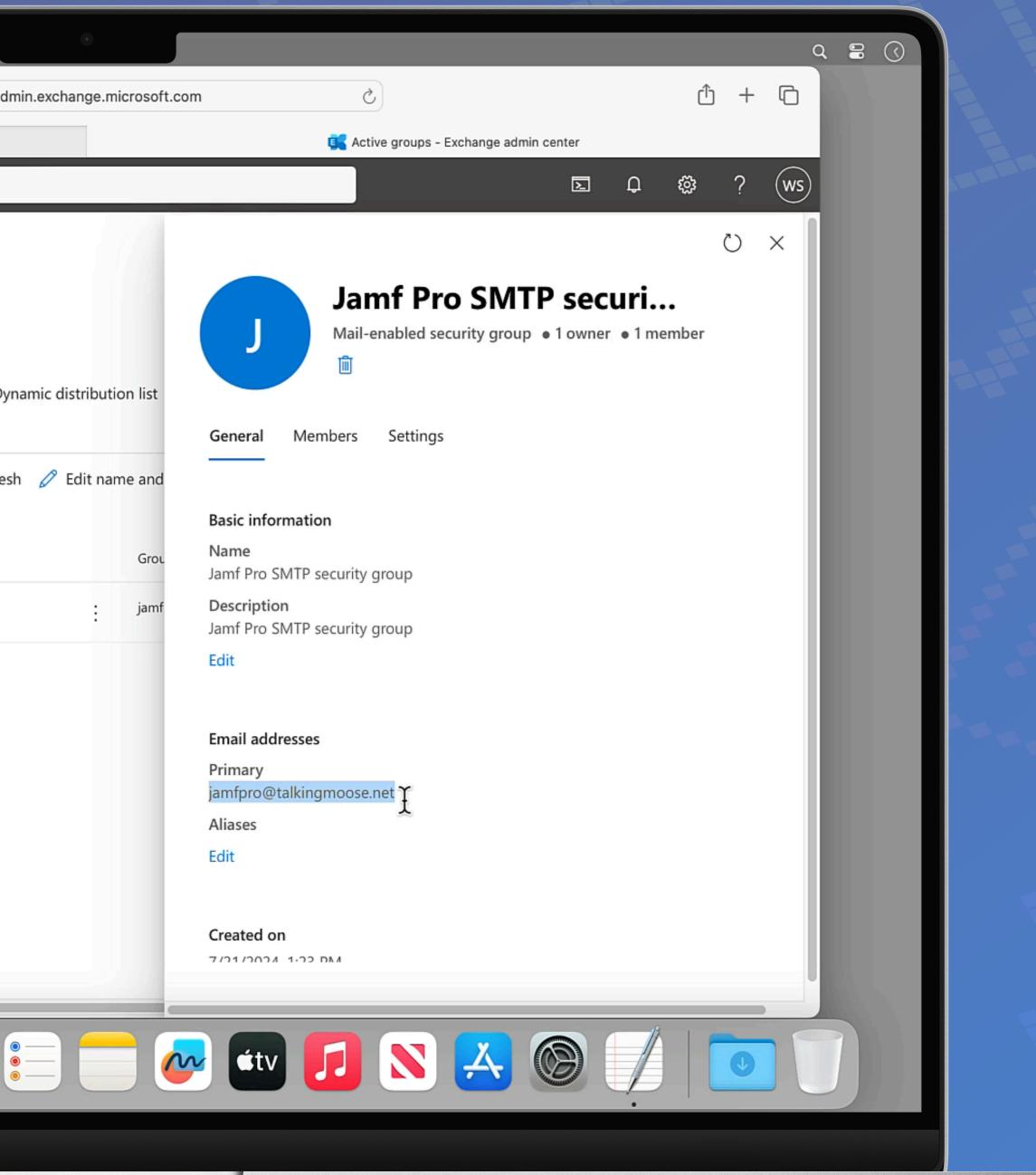
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Groups	Dasies	Mail-enabled security group
Resources Contacts	Owners	Has all the functionality of a distribution list and additionally can be used to control access to OneDrive and SharePoint.
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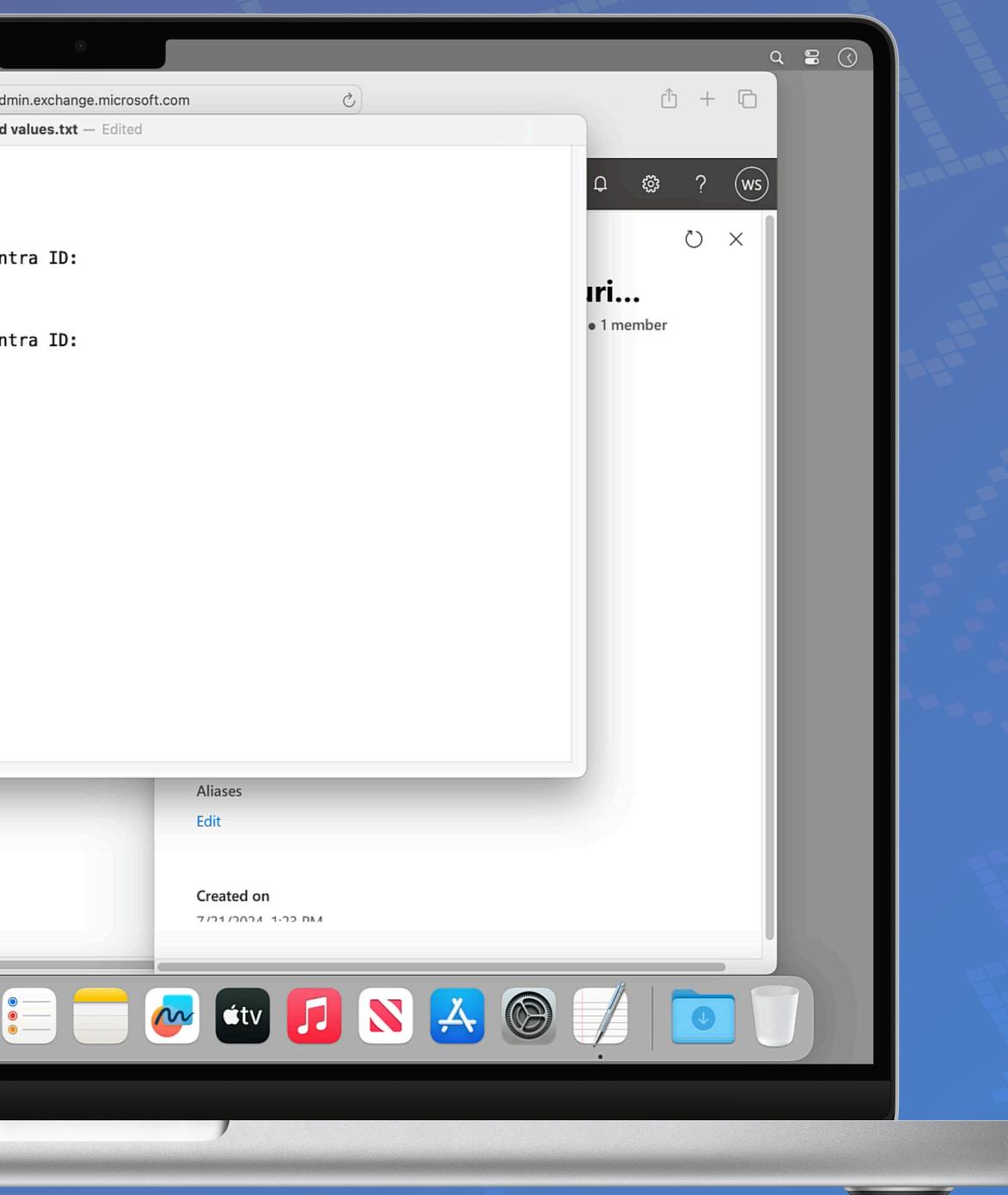


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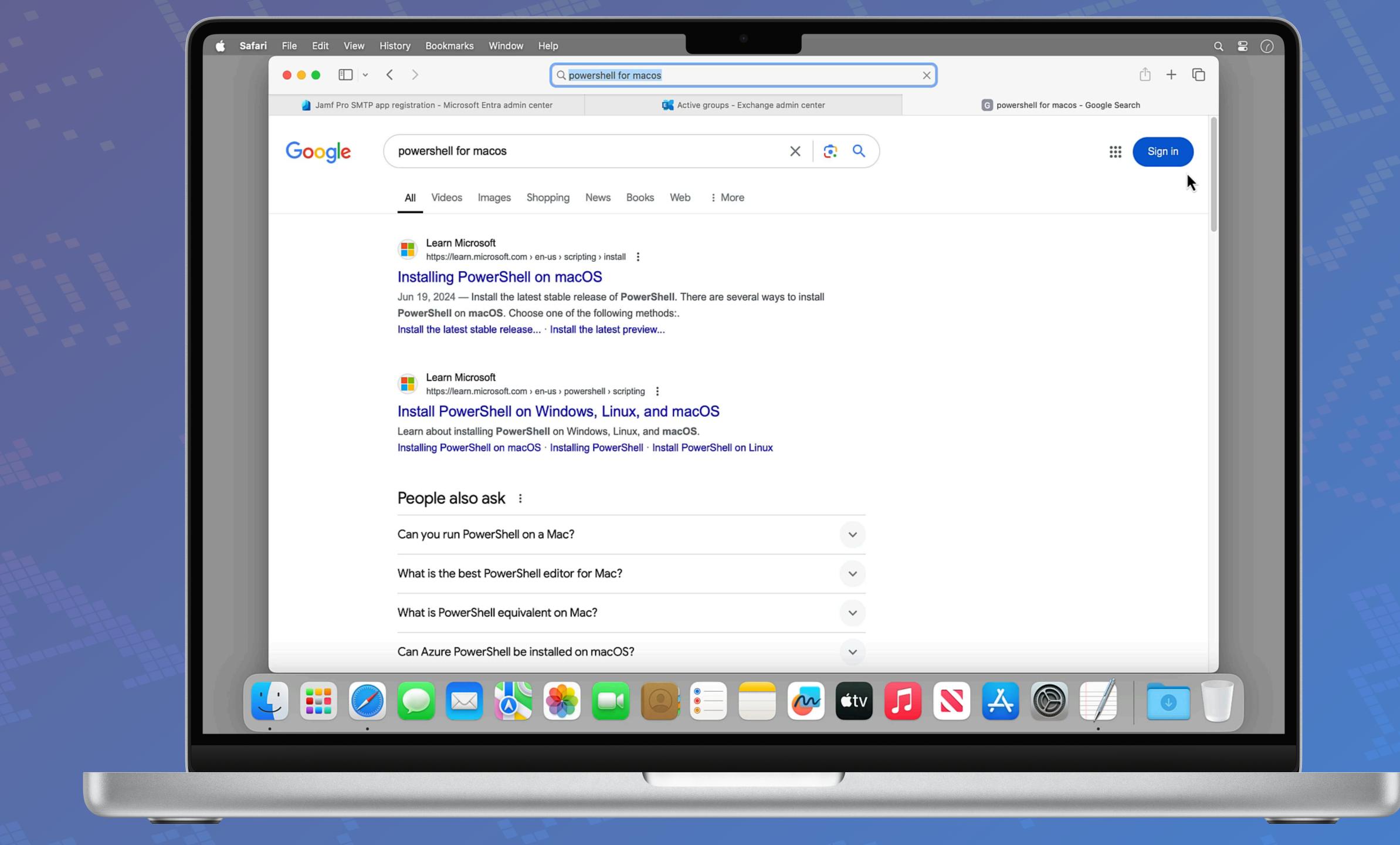
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 ✓ Install ✓ Overview Installing PowerShell on Windows > Installing PowerShell on Linux Installing PowerShell on Arm Using PowerShell on Doker Microsoft Update FAQ for PowerShell ✓ Undows PowerShell ✓ What's New in PowerShell ✓ Whon new versions of PowerShell are released, update Homebrew's formulae and upgrade PowerShell: ✓ Scripting and development ✓ Scripting and development ✓ Scripting and development ✓ The following command installs the latest stable release of PowerShell. ✓ Installing PowerShell ✓ Installing PowerShell ✓ What's New in PowerShell ✓ When new versions of PowerShell are released, update Homebrew's formulae and upgrade PowerShell. ✓ Scripting and development ✓ Scripting and development ✓ Scripting and development ✓ Scripting and development 		Once brew is installed you can install PowerShell.	Automate administra
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Additional resources

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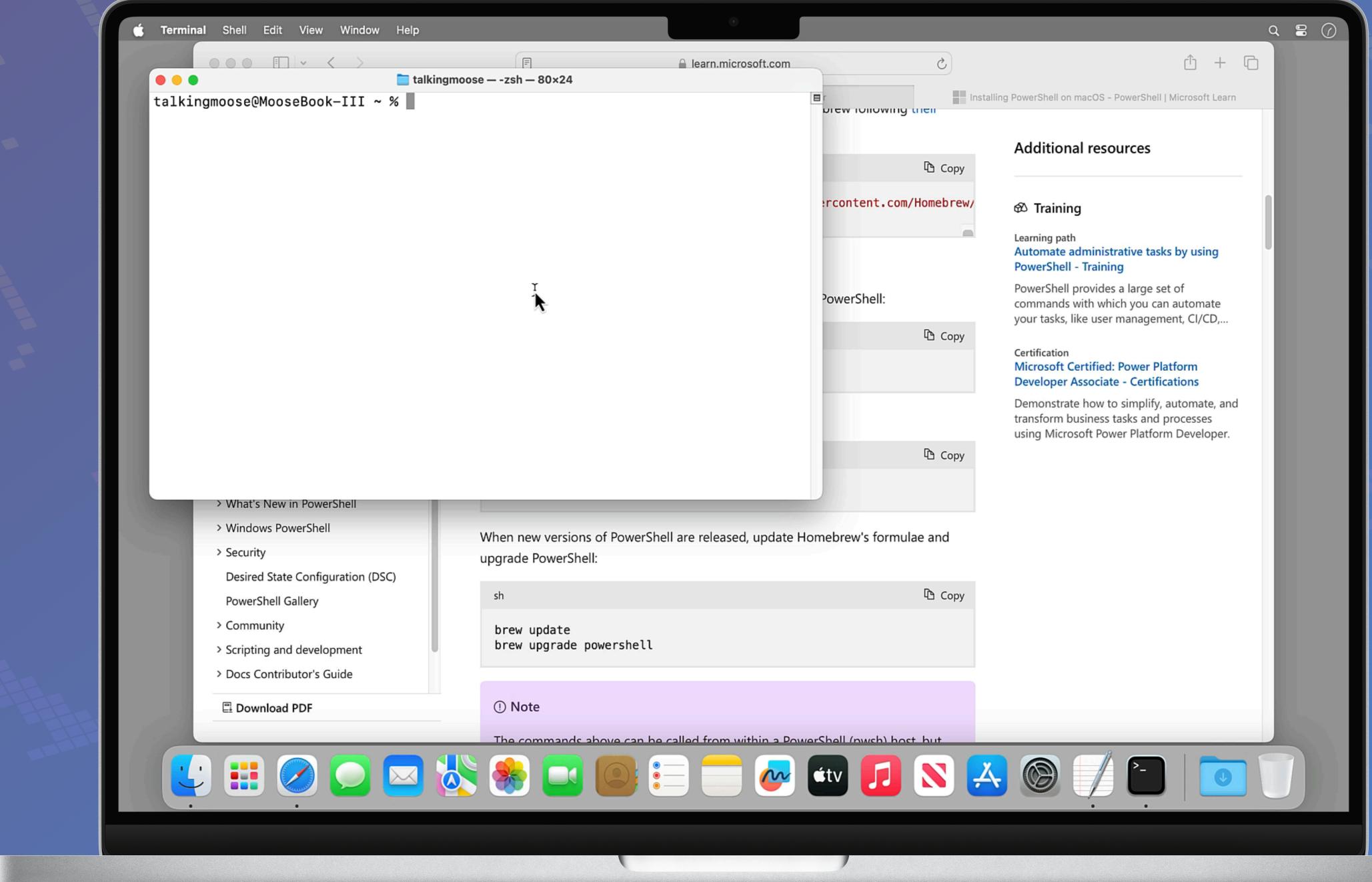
Learning path Automate administrative tasks by using PowerShell - Training

PowerShell provides a large set of commands with which you can automate your tasks, like user management, CI/CD,...

Certification Microsoft Certified: Power Platform **Developer Associate - Certifications**

Demonstrate how to simplify, automate, and transform business tasks and processes using Microsoft Power Platform Developer.







F taikingmoose@MooseBook-III ~ % /bin/bash -c "\$(curl -rsCL https://raw.githubuser 💻 content.com/Homebrew/install/HEAD/install.sh)" ==> Checking for `sudo` access (which may request your pass ord)... Password:

> What's New in PowerShell

- > Windows PowerShell
- > Security

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- Desired State Configuration (DSC)
- PowerShell Gallery
- > Community
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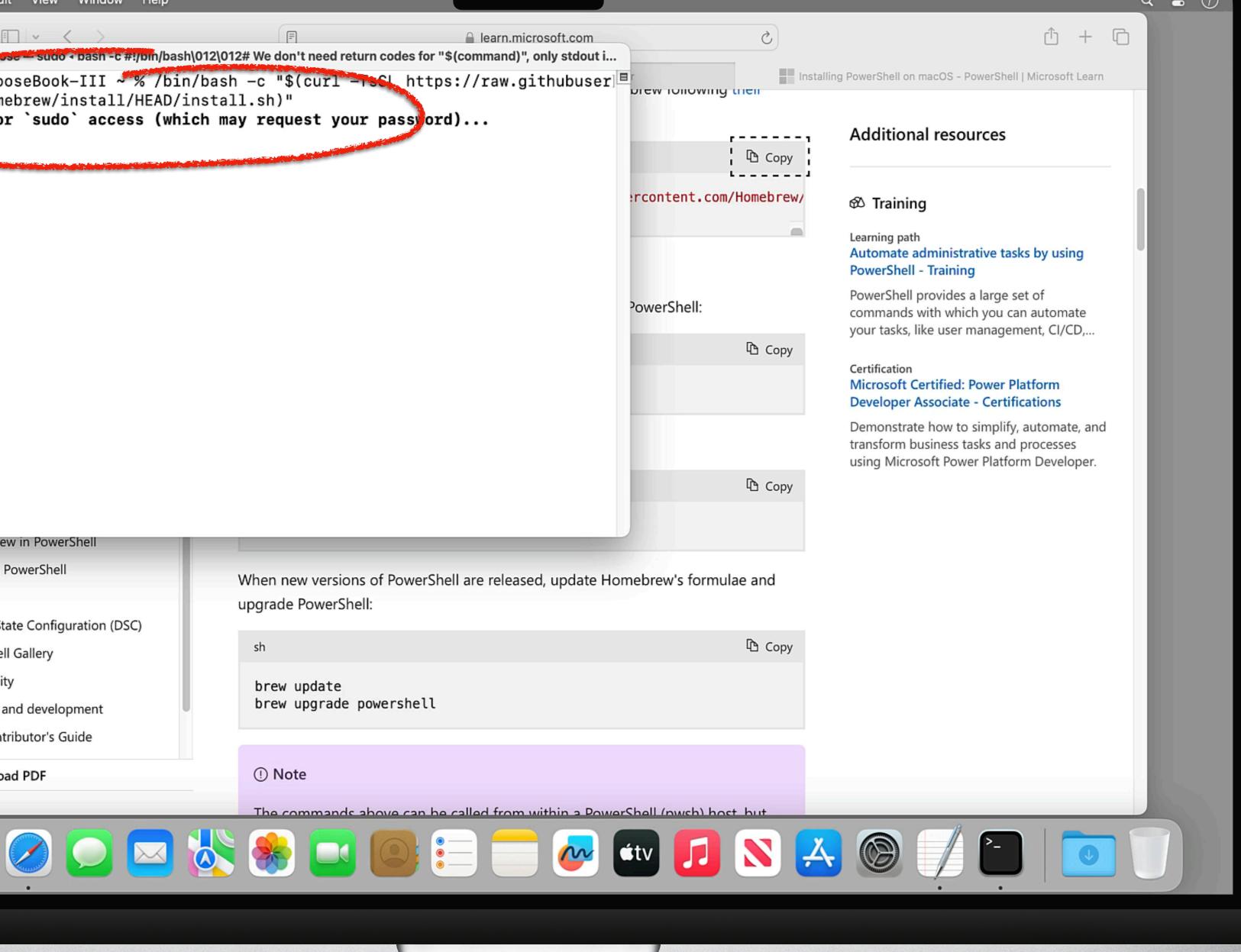
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brew update brew upgrade powershell

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=> Pouring portable-ruby-3.3.3.arm64_big_sur.bottle.tar.gz
Warning: /opt/homebrew/bin is not in your PATH.
Instructions on how to configure your shell for Homebrew
can be found in the 'Next steps' section below.
==> Installation successful!

==> Homebrew has enabled anonymous aggregate formulae and cask analytics. Read the analytics documentation (and how to opt-out) here: <u>https://docs.brew.sh/Analytics</u>

No analytics data has been sent yet (nor will any be during this install run).

==> Homebrew is run entirely by unpaid volunteers. Please consider donating: https://github.com/Homebrew/brew#donations

==> Next steps:

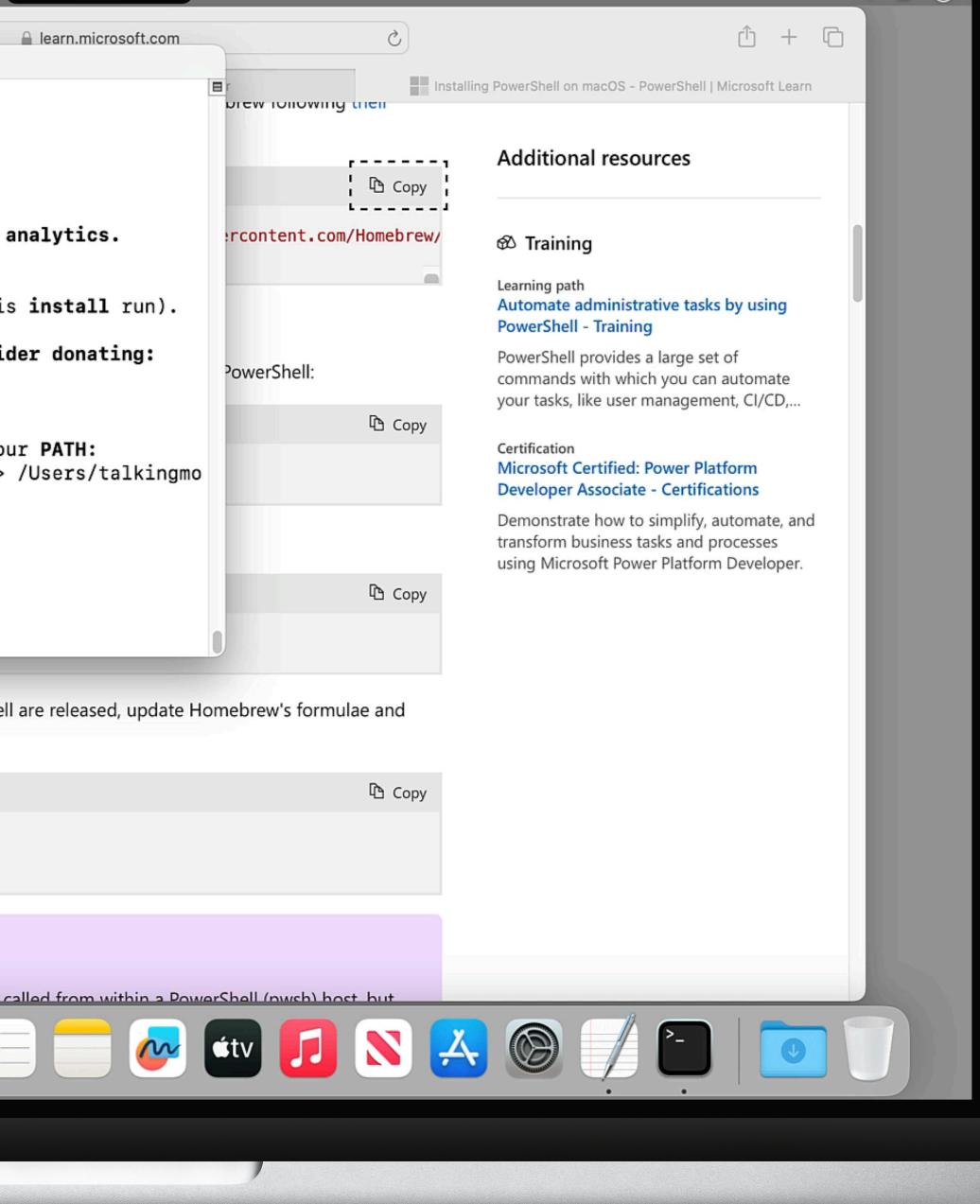
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- Run these two commands in your terminal to add Homebrew to your PATH: (echo; echo 'eval "\$(/opt/homebrew/bin/brew shellenv)"') >> /Users/talkingmo ose/.zprofile
- eval "\$(/opt/homebrew/bin/brew shellenv)"
- Run brew help to get started
- Further documentation:
 - <u>https://docs.brew.sh</u>

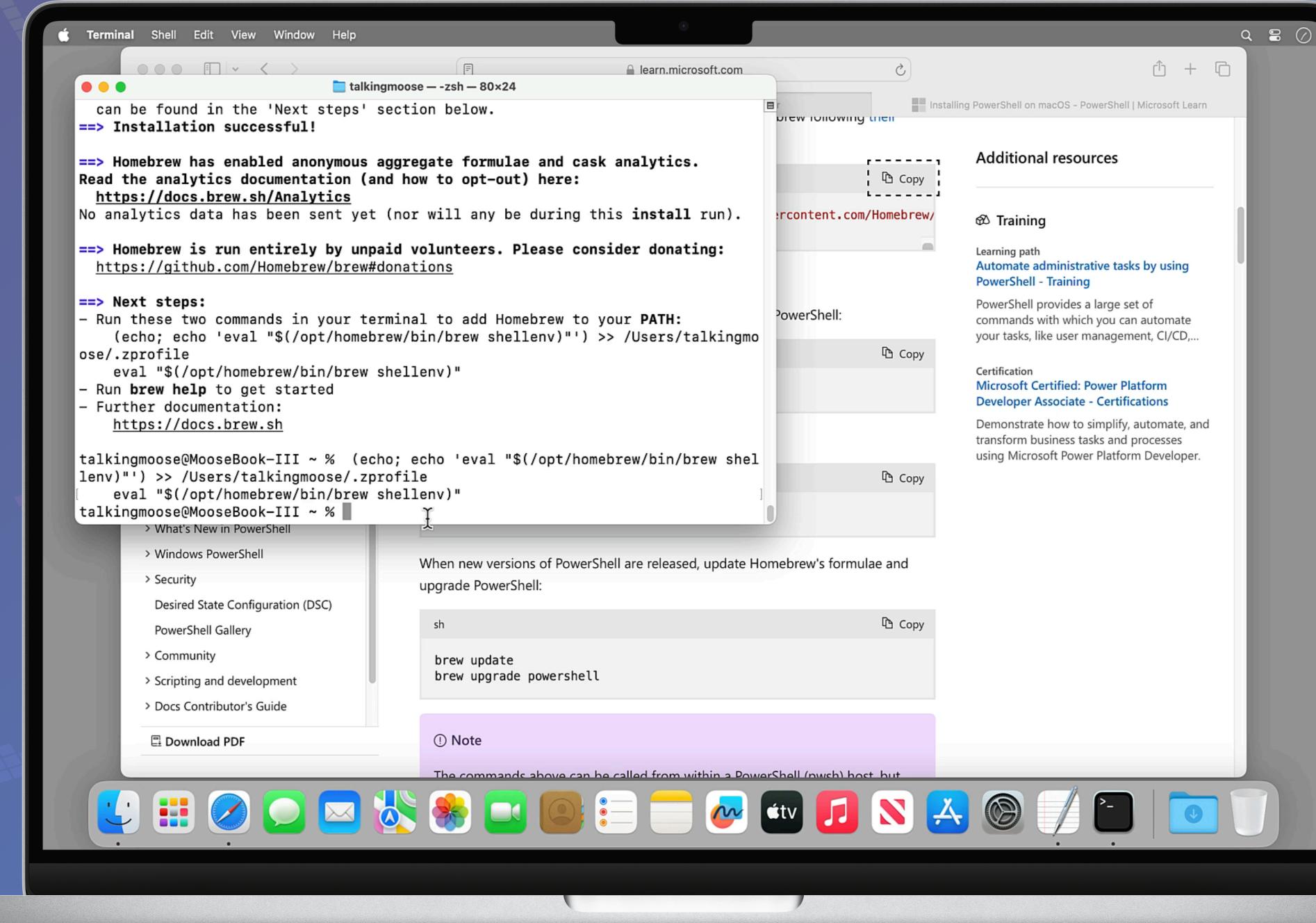
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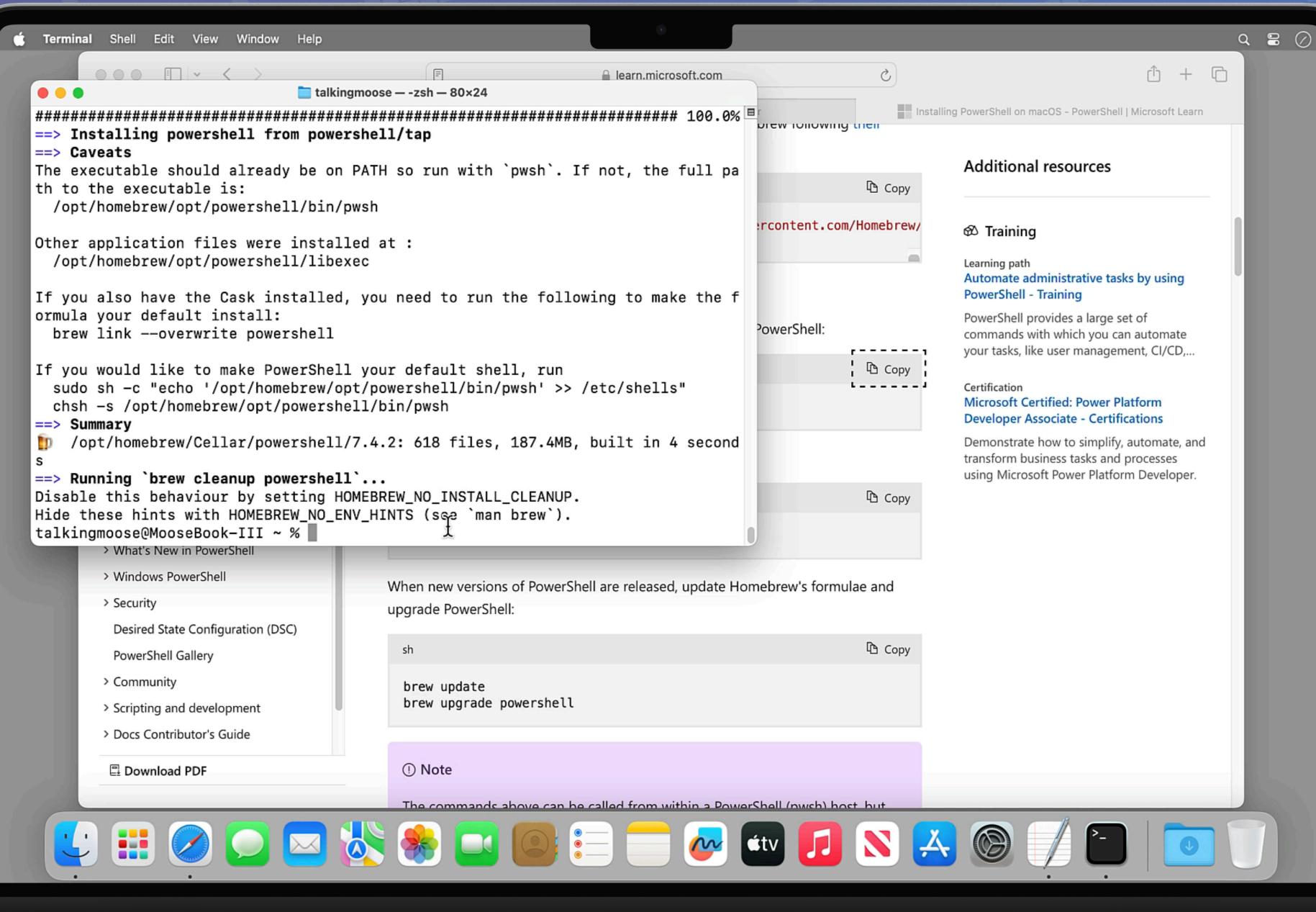
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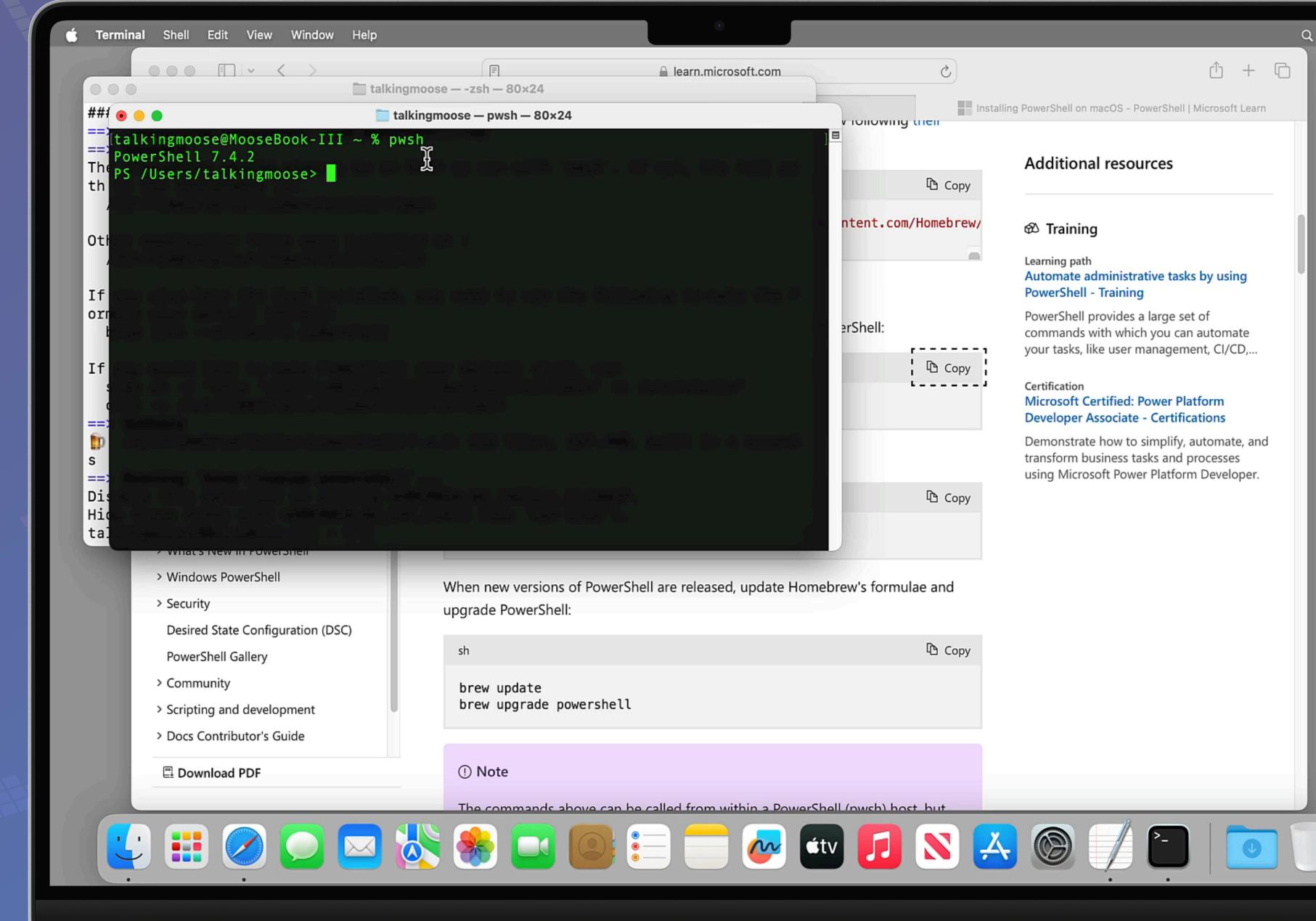










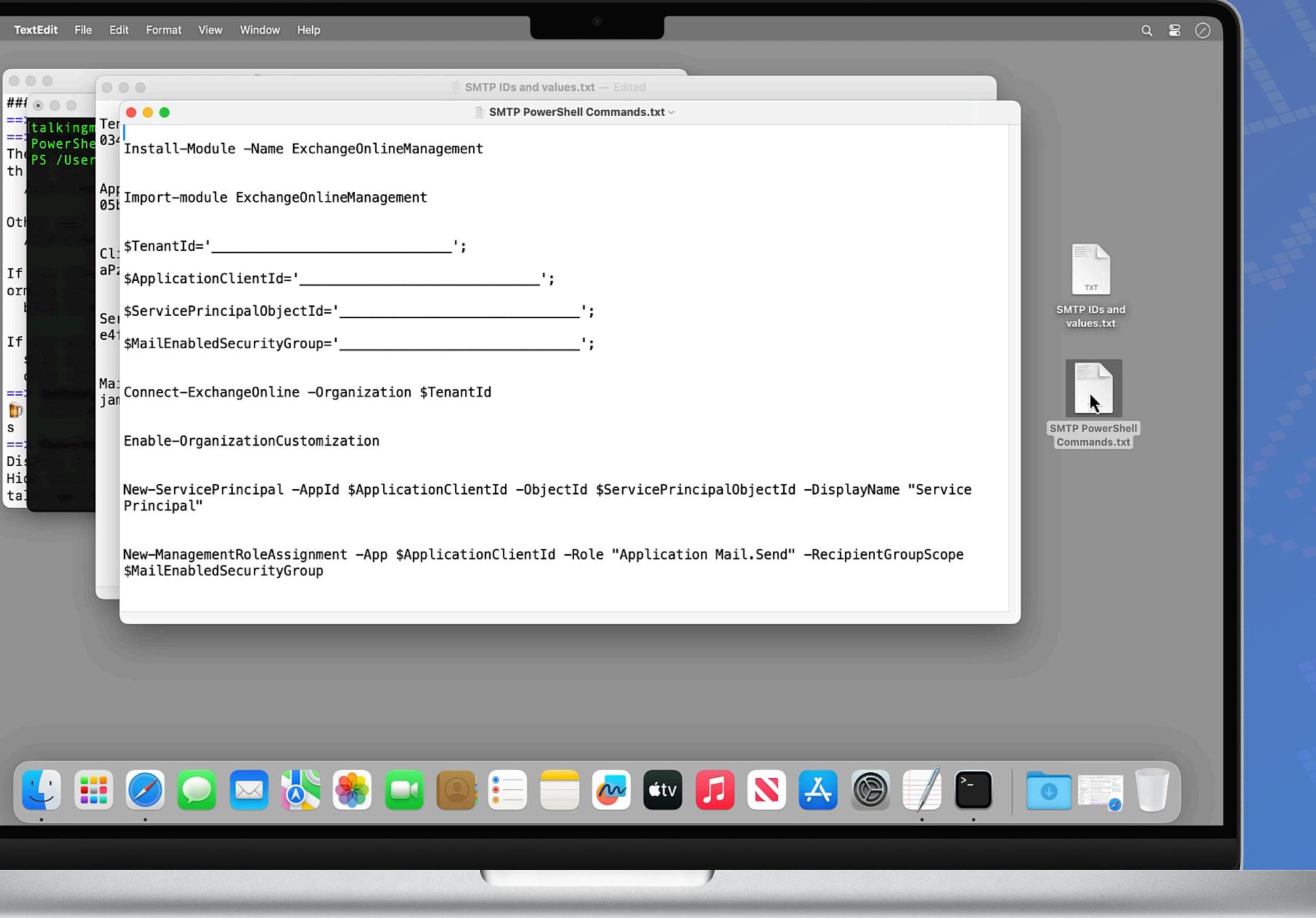


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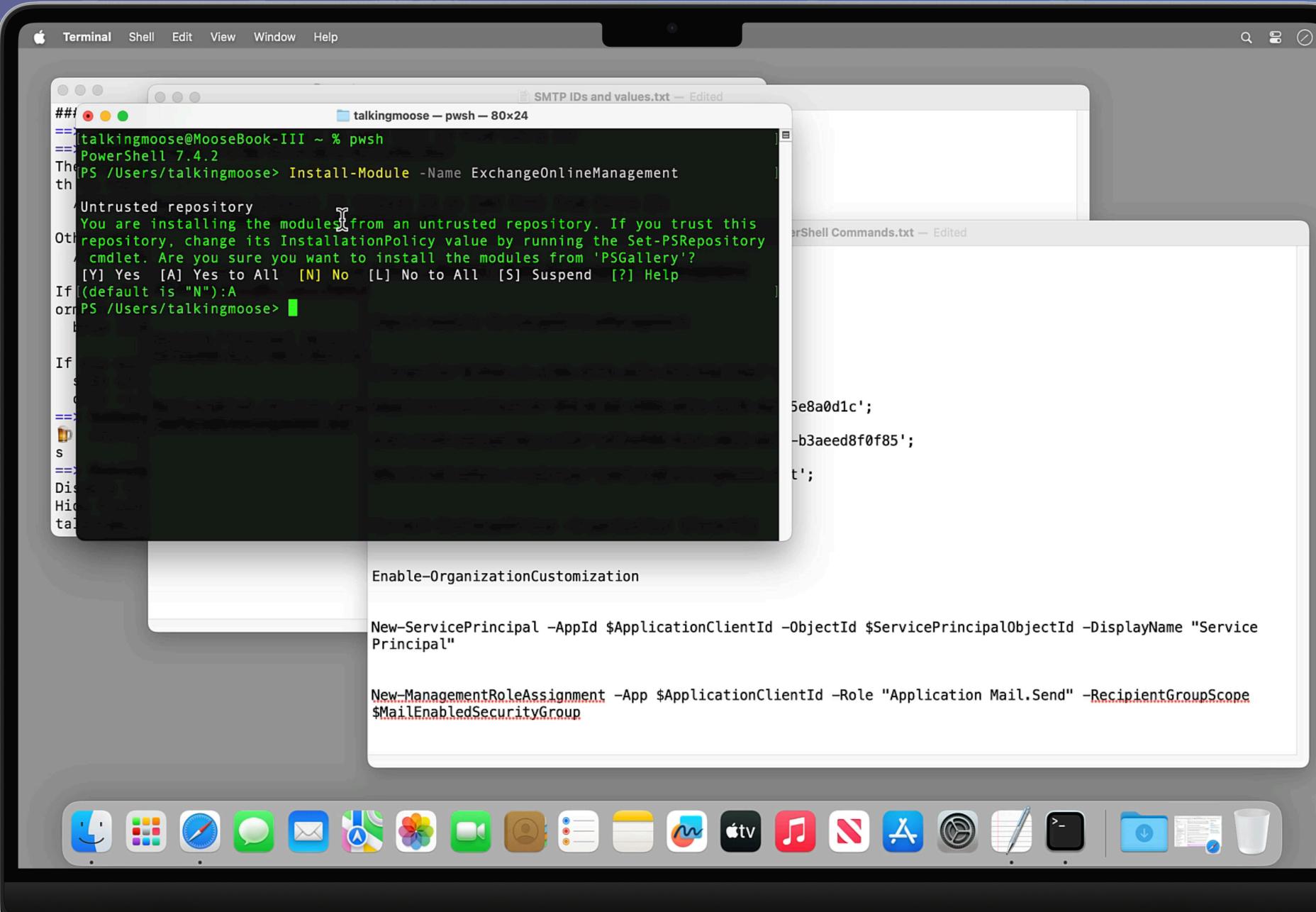




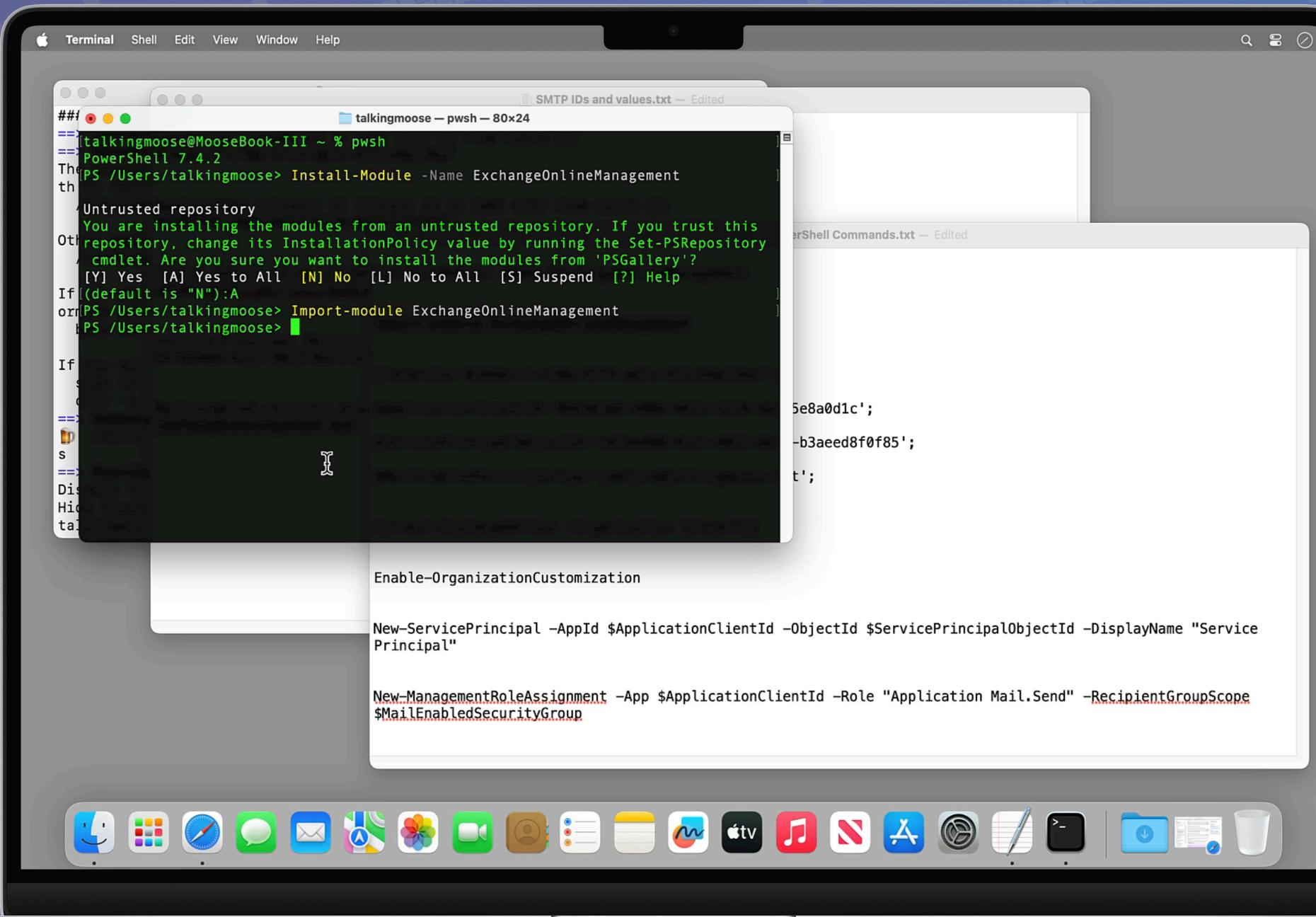
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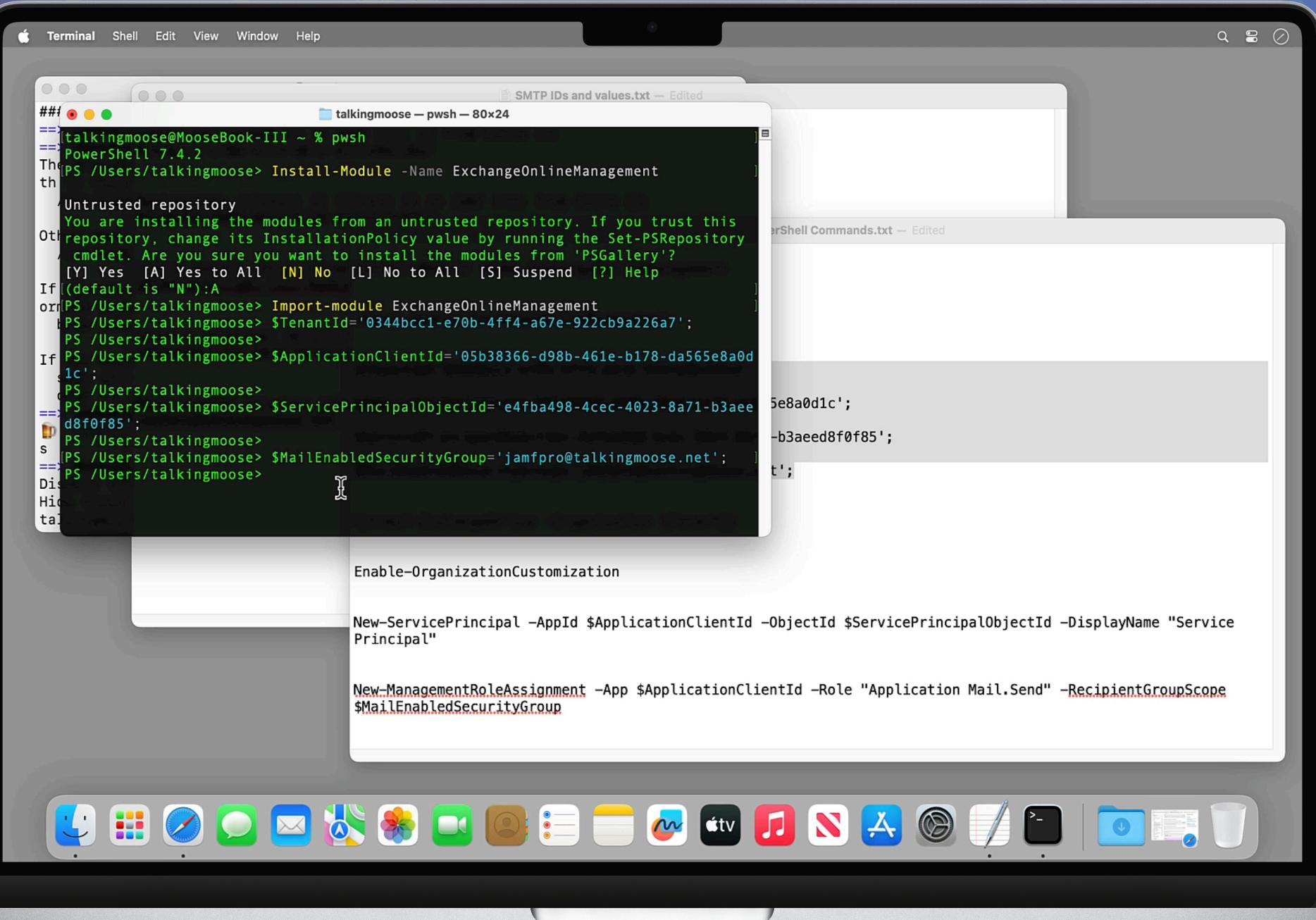










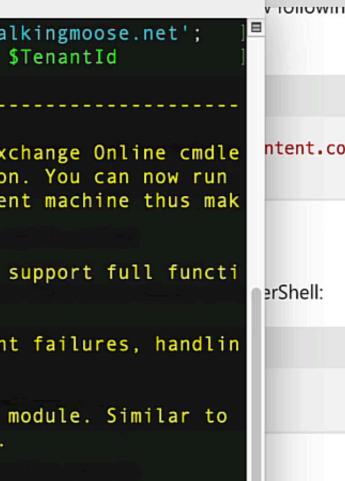


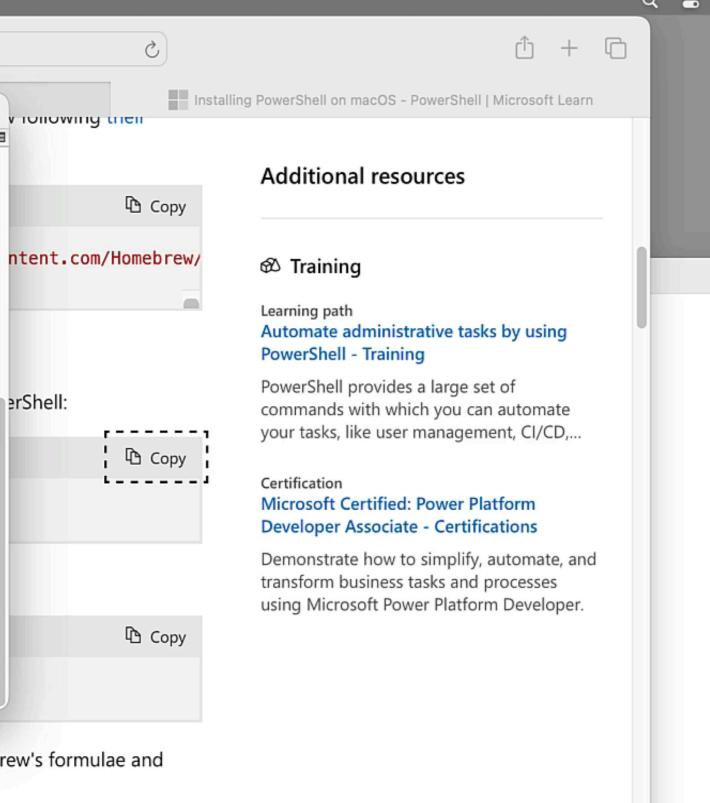


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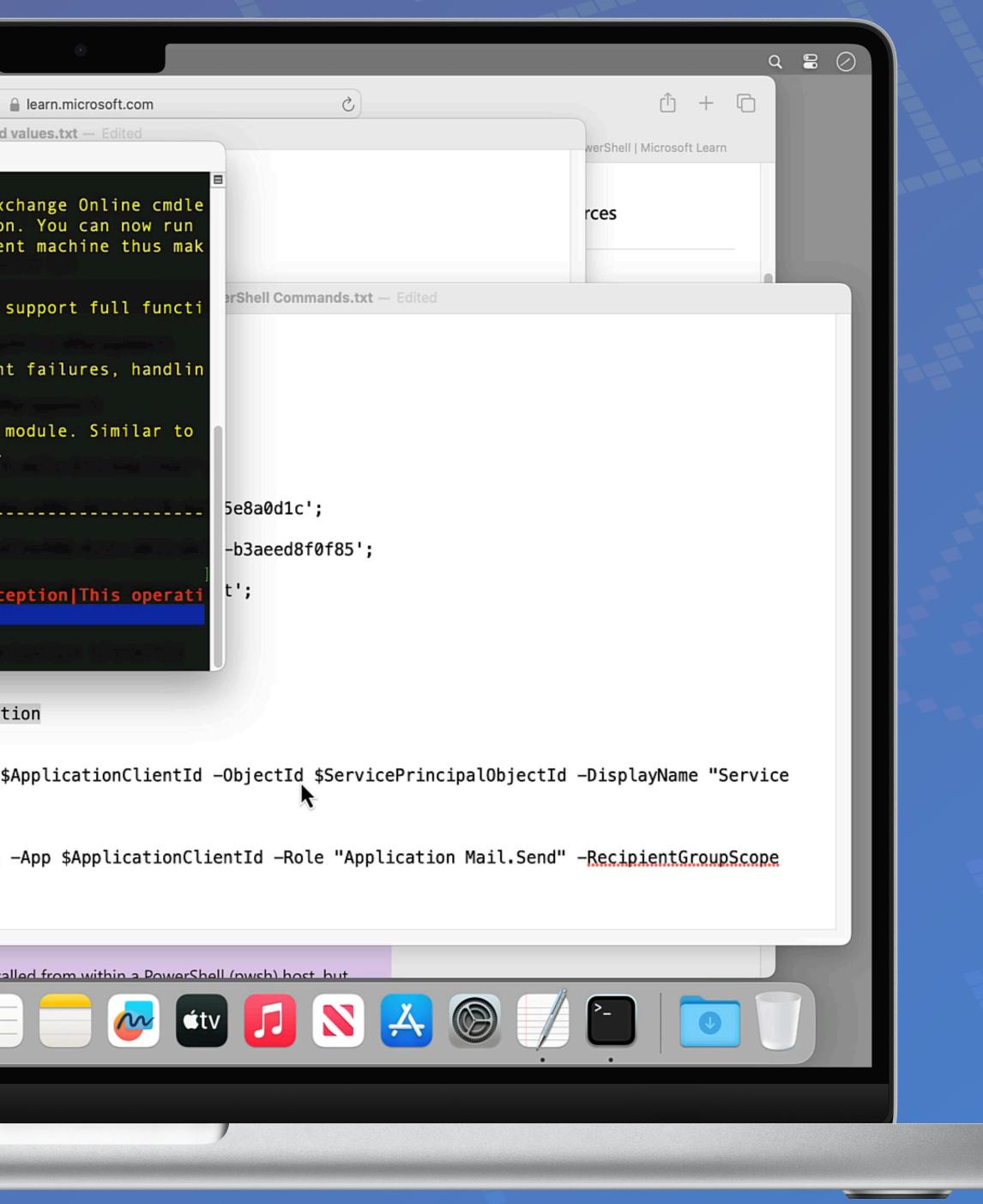
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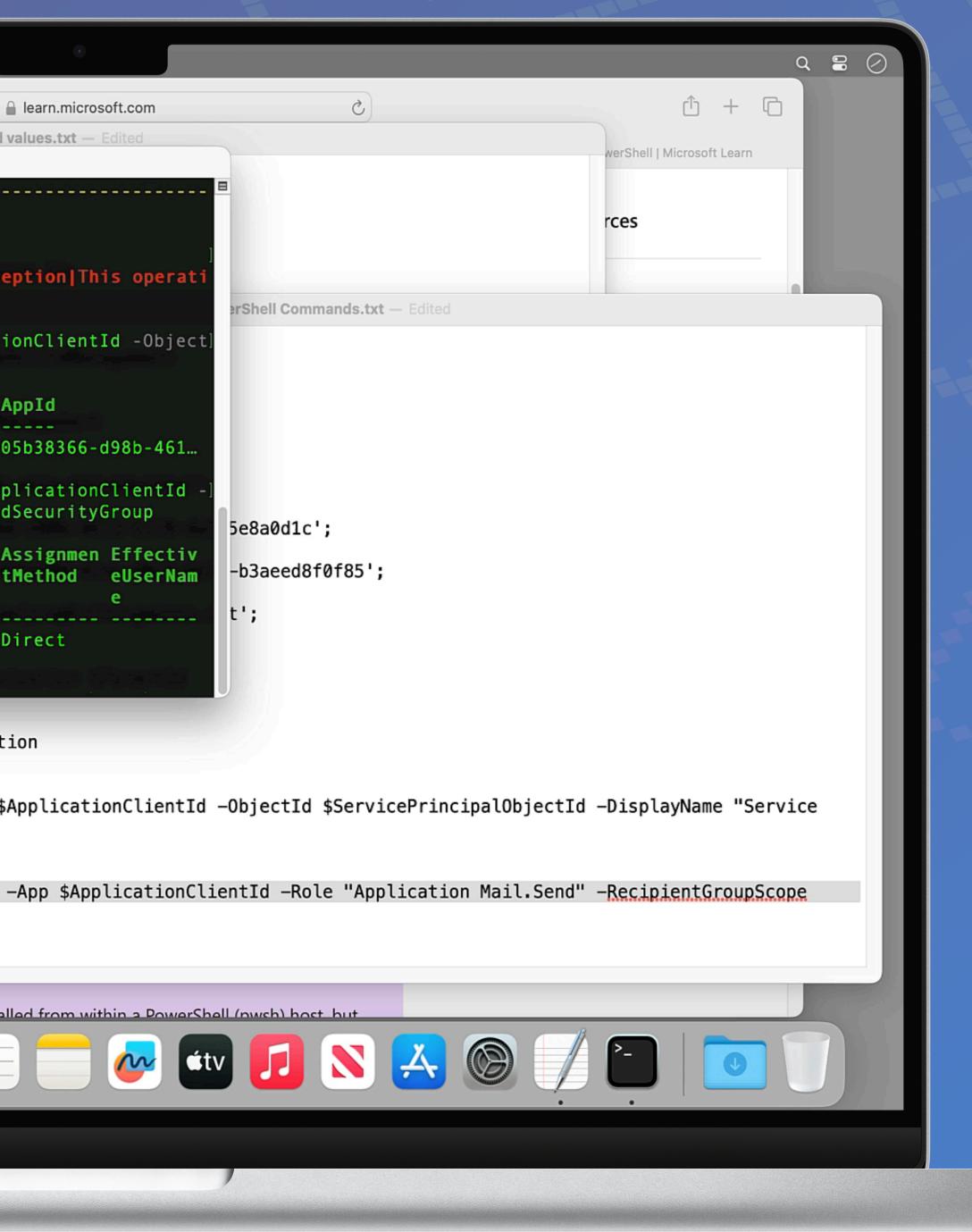




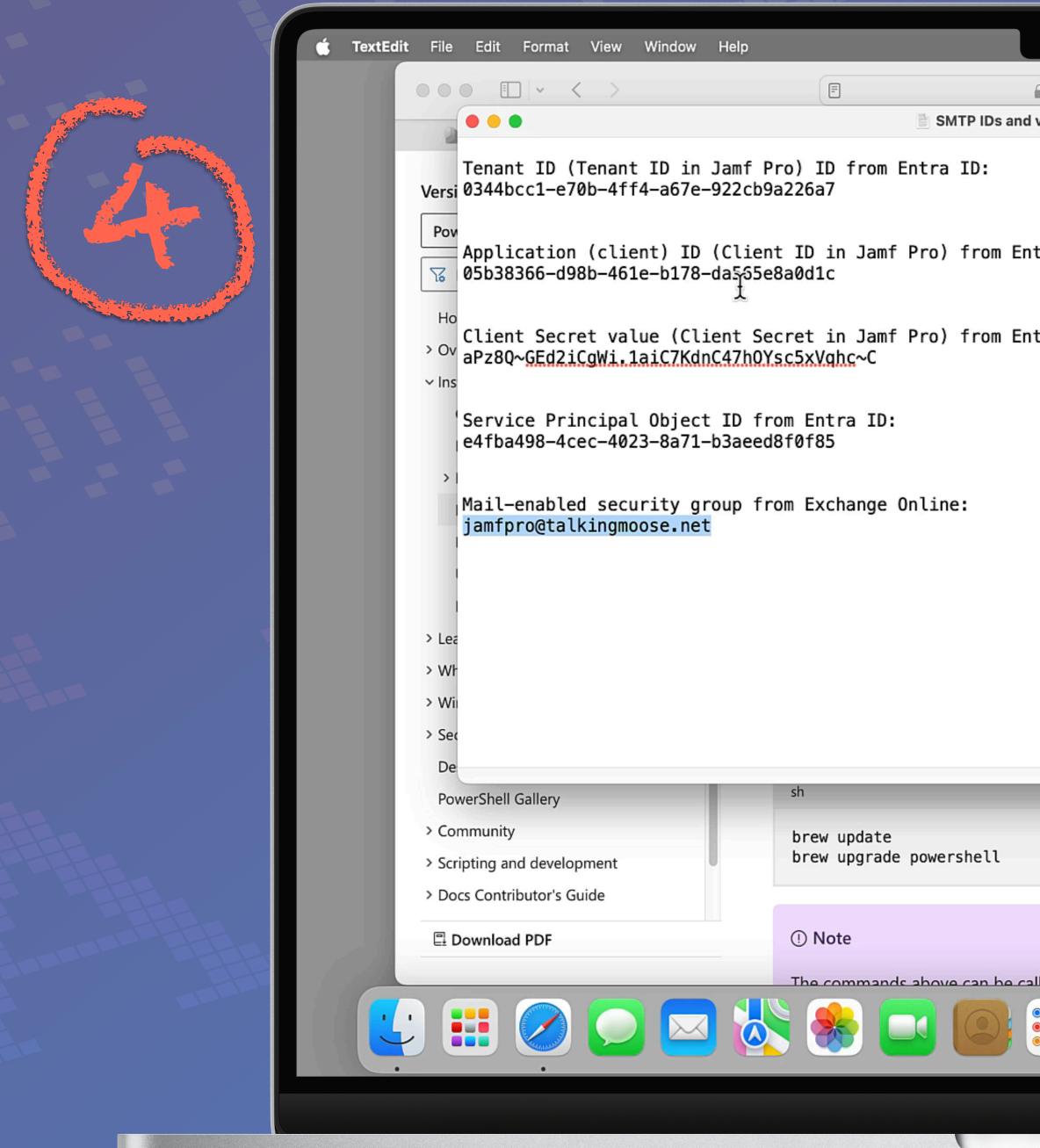
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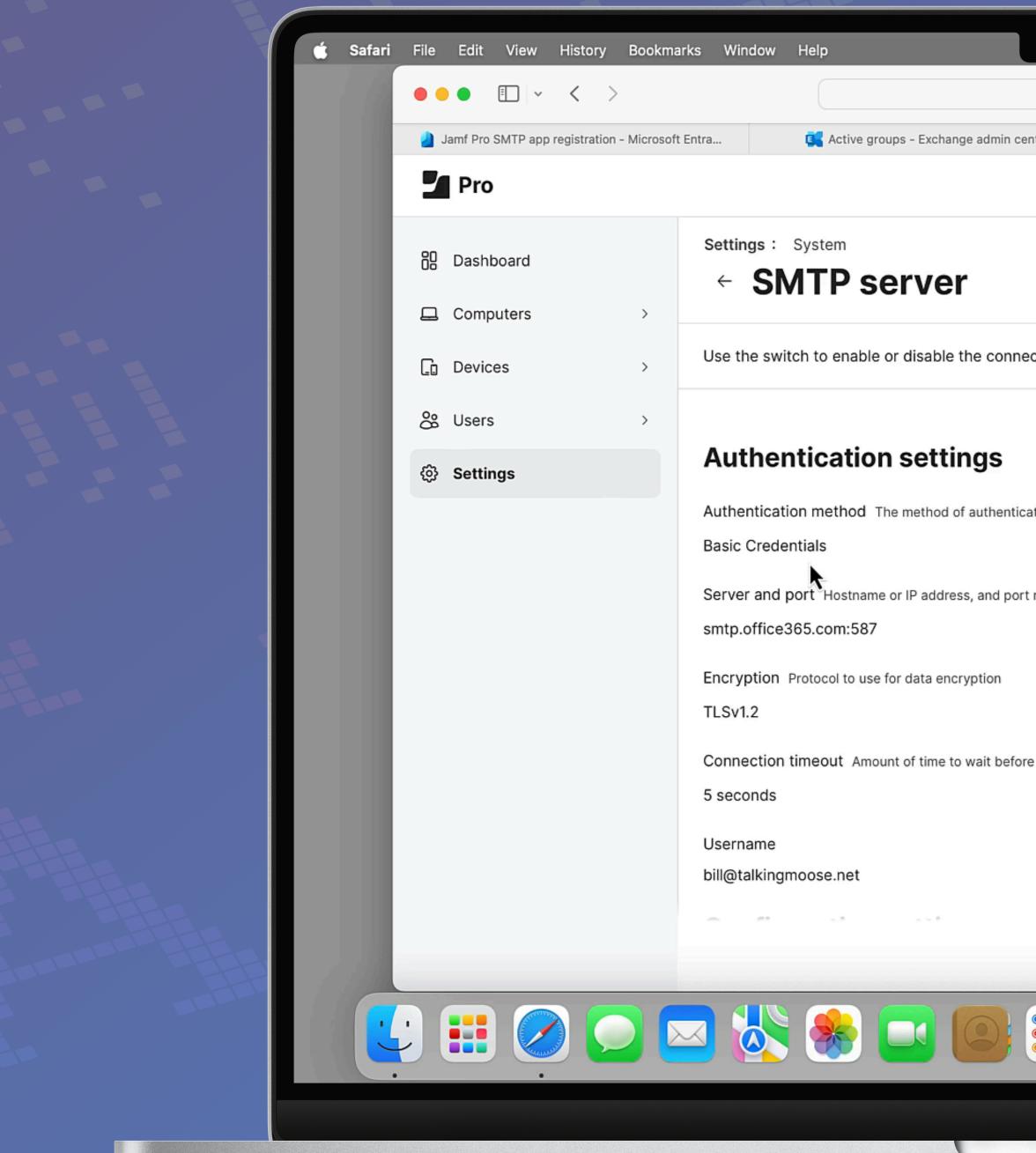






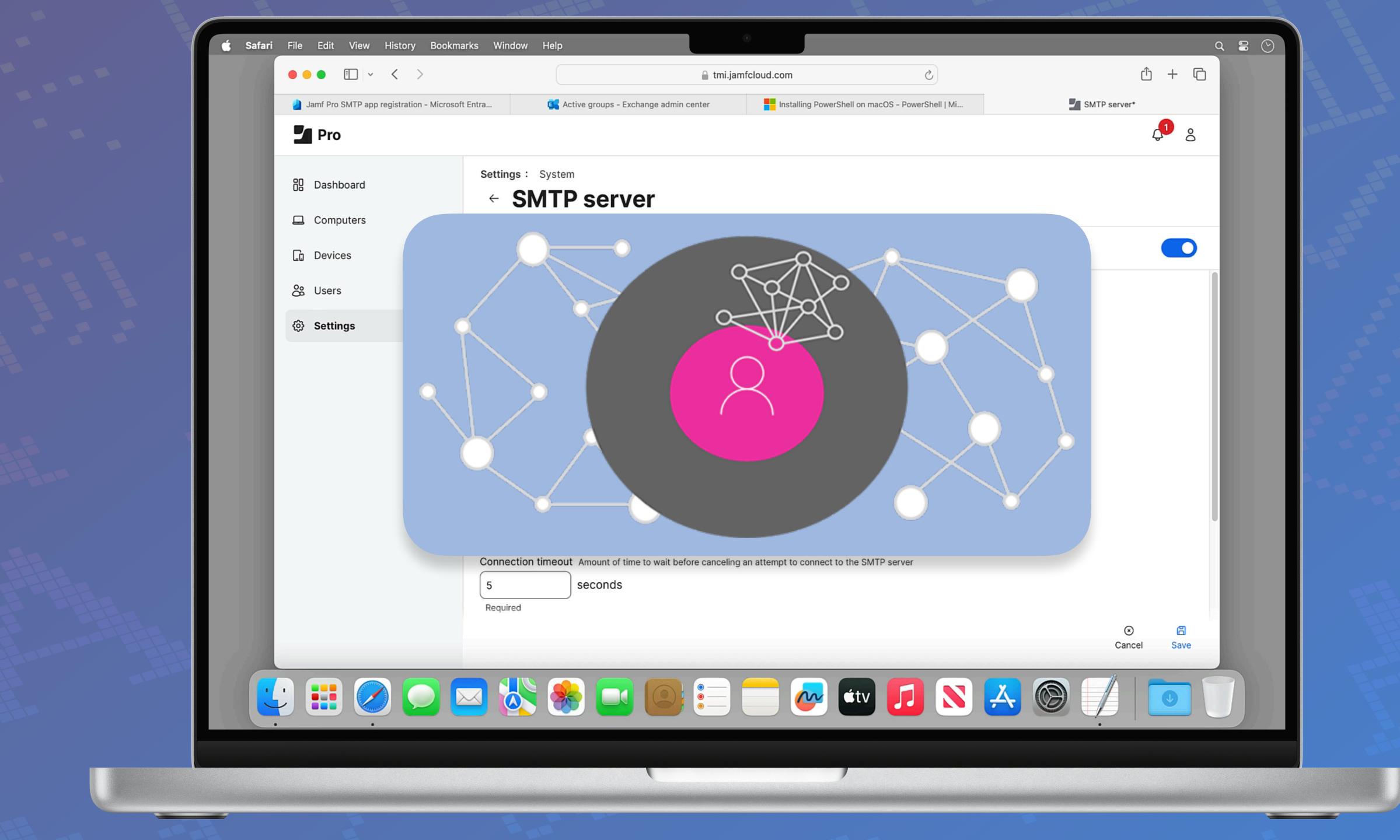
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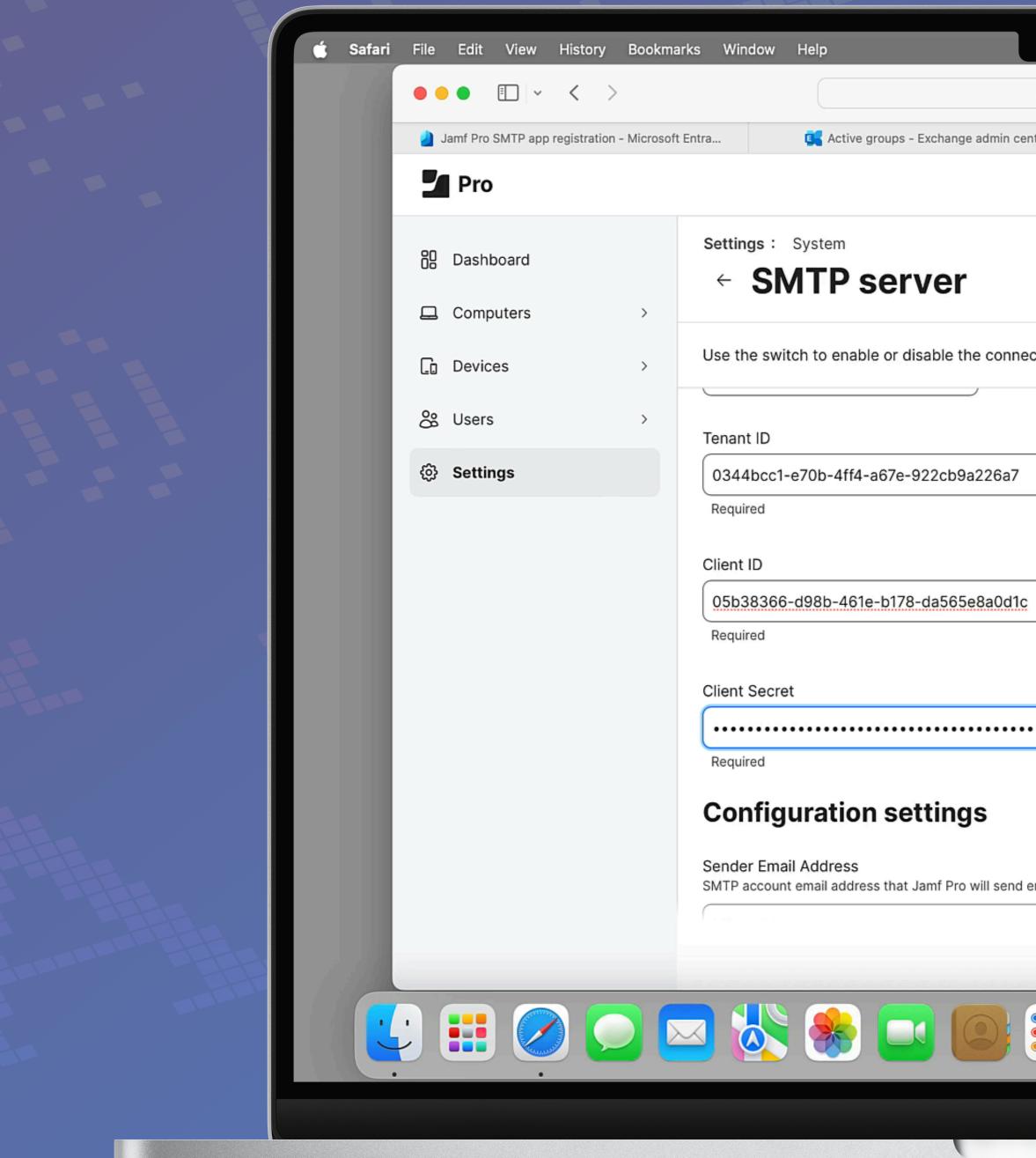






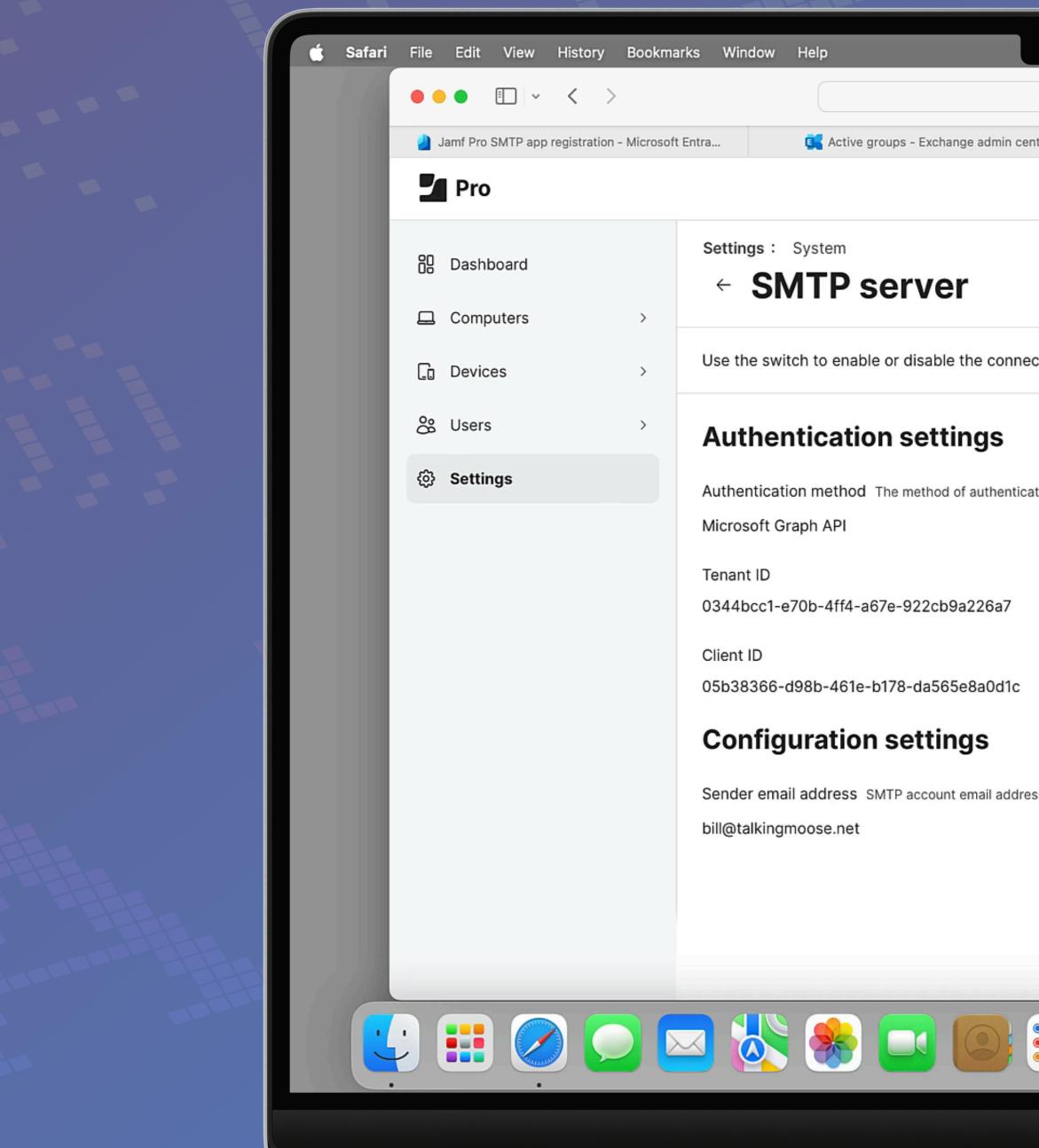
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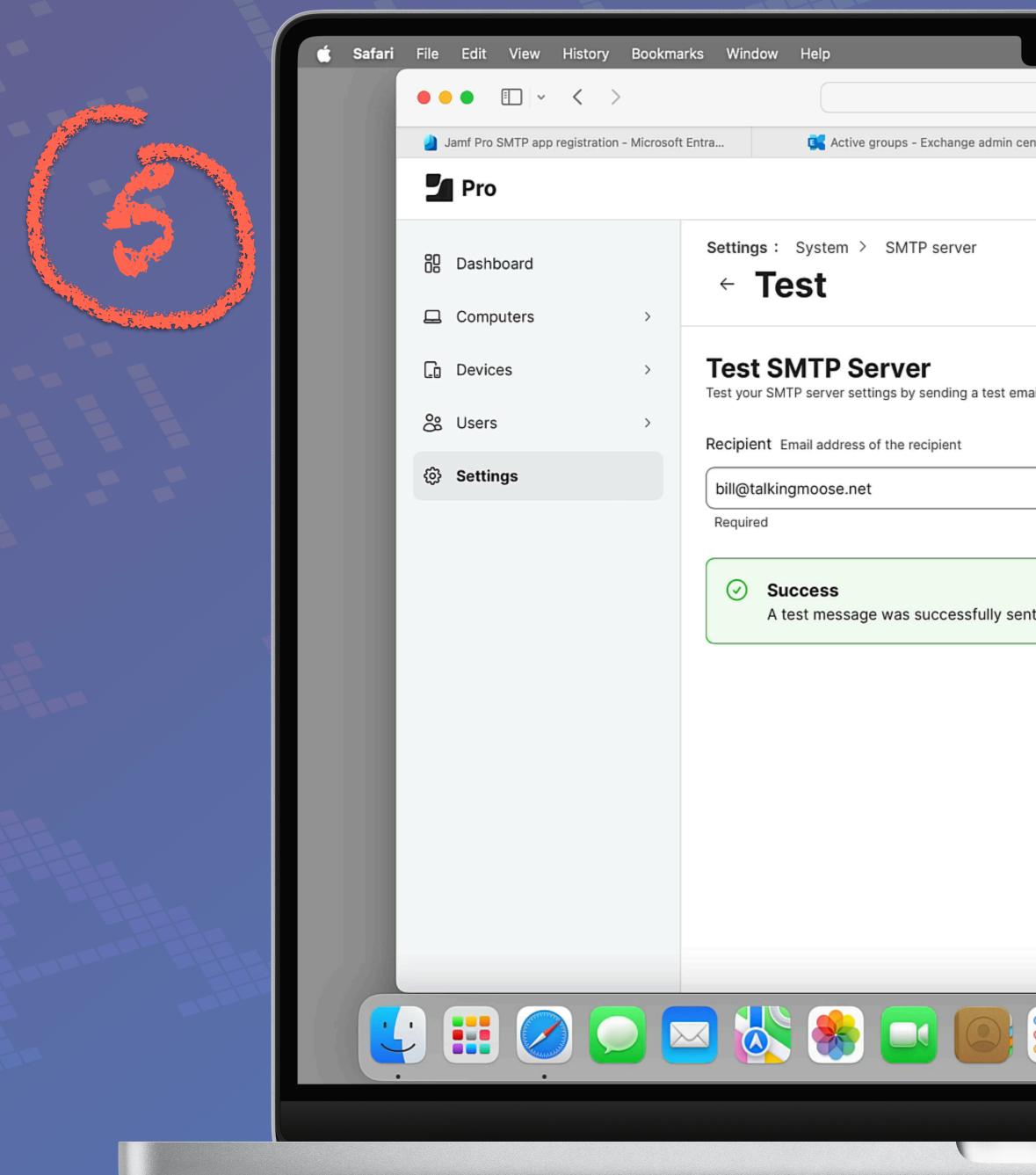
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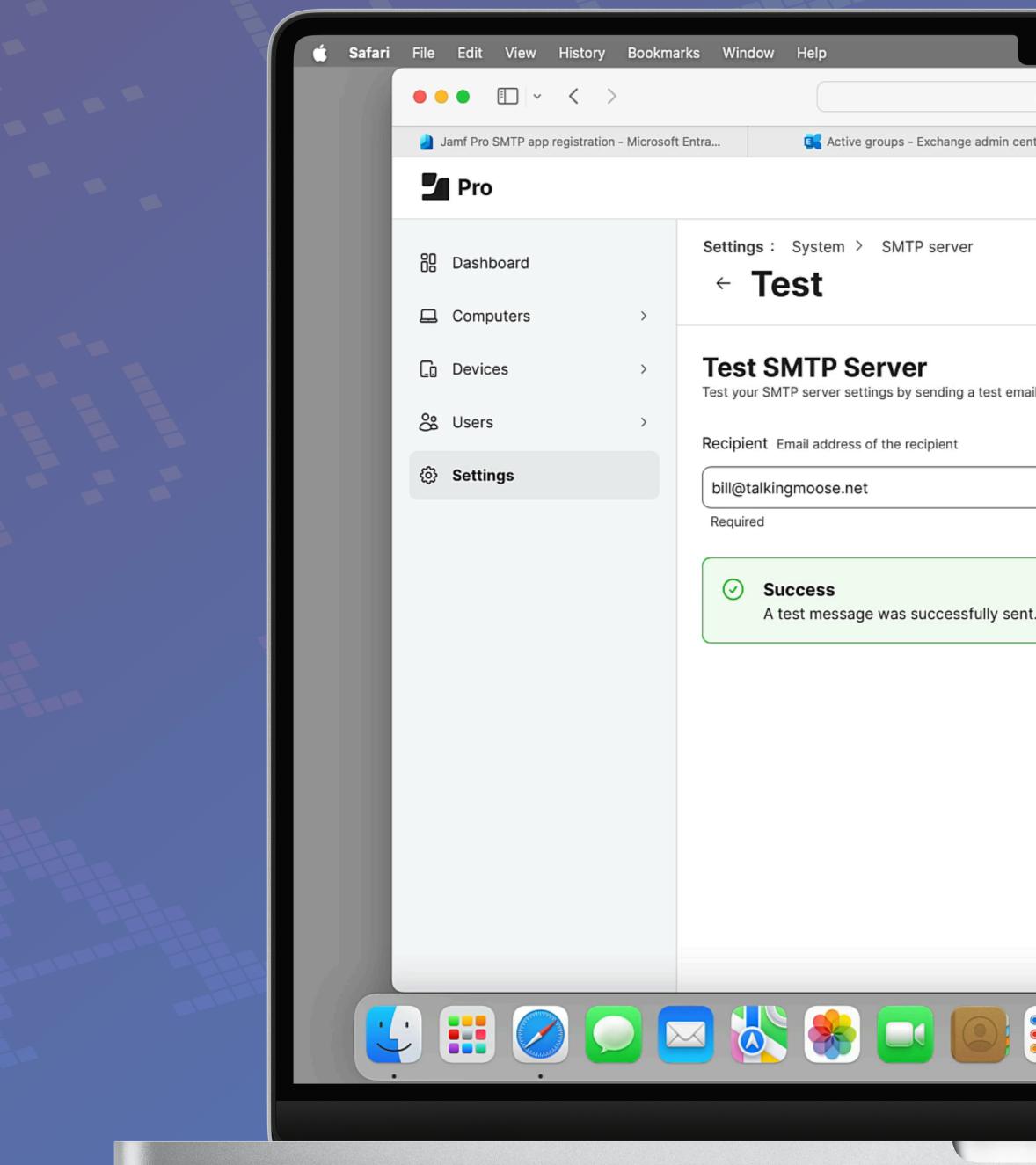
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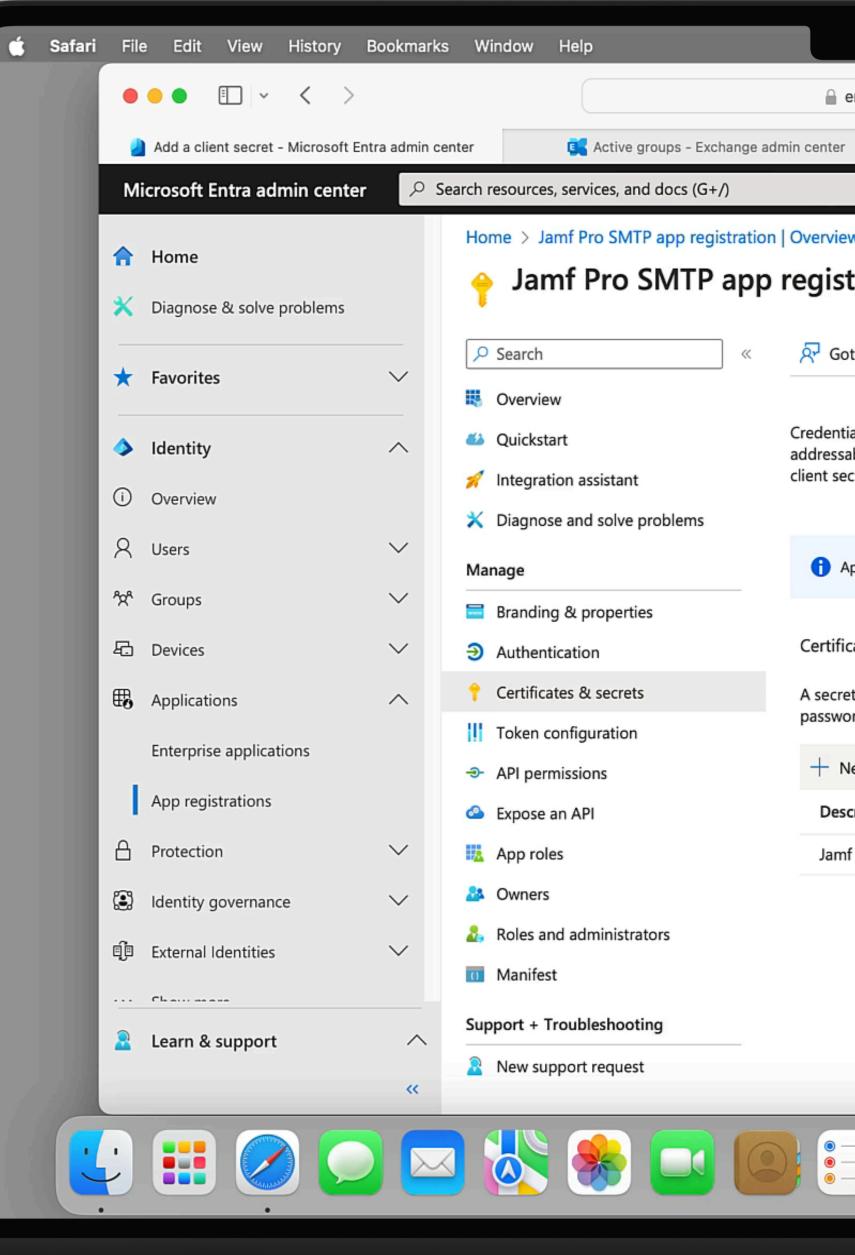


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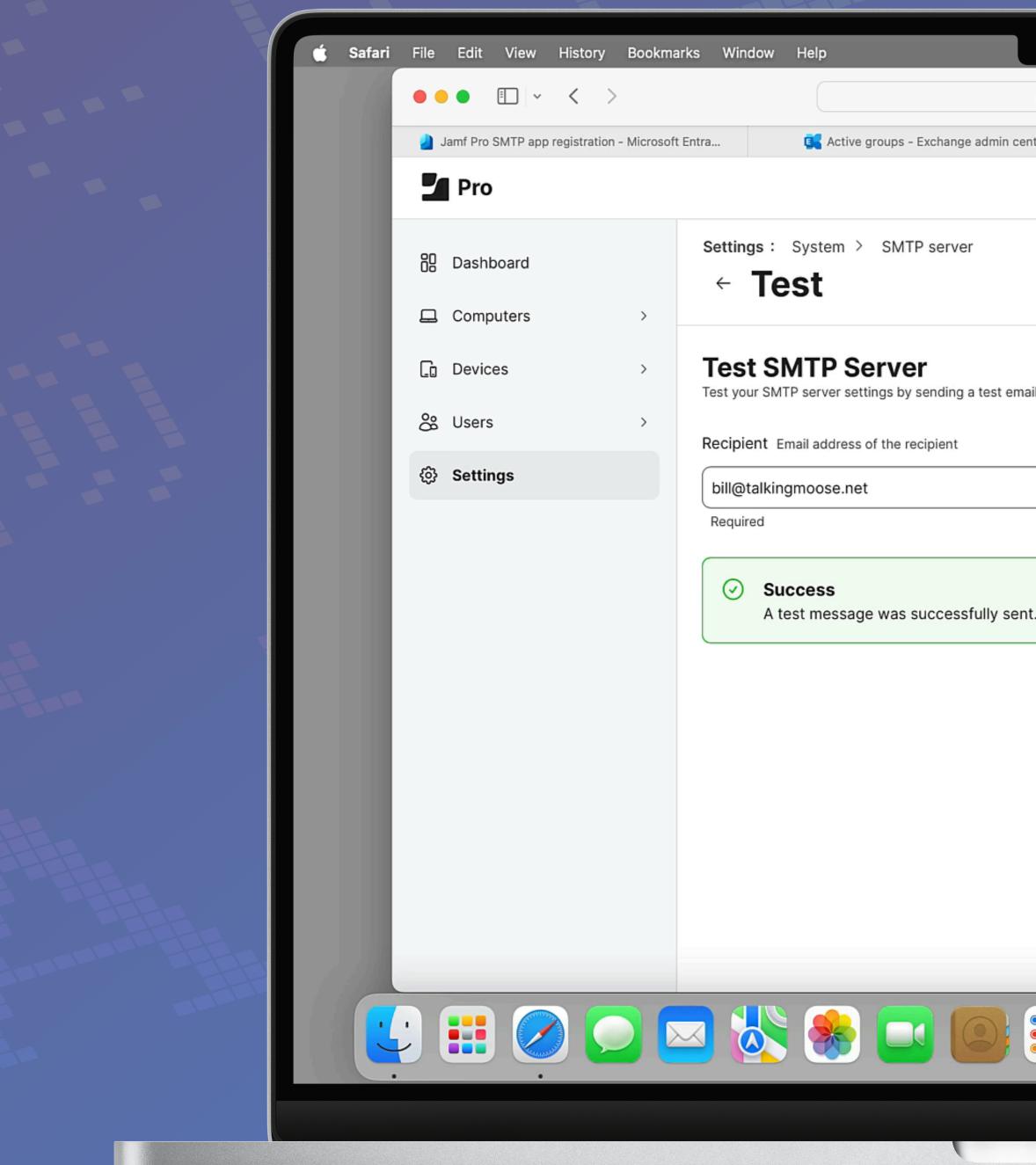
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Configure Jamf Pro SMTP to use Modern Auth

- 1. Create an app in Microsoft Entra ID for Jamf Pro to access (similar to a user account)
- 2. Create a mail-enabled security group in Microsoft Exchange Online
- 3. Use PowerShell to create a new service principal and new management role assignment
- 4. Configure SMTP server settings in Jamf Pro to use the Microsoft Graph API

What is Google Identity and Access Management?





September 30, 2024

'Third-party apps that use only a password to access Google Accounts and Google Sync will no longer be supported'





SMTP server adds Microsoft Modern Auth support

Simple authentication

- This is what Jamf Pro uses today
- Basic username + password
- aka Single-Factor Authentication
- Every time credentials are sent to the server is an opportunity for a bad actor to intercept those credentials
- Susceptible to social engineering attacks

Modern Auth

- Continuous and adaptive authentication
- Multi-factor Authentication Biometrics Types of activity IP address and Geography Times of the day or week
- Risk assessment engine
- Tokens instead of username + password

SMTP server adds Identity and Access Management support

Microsoft

Modern Auth

- Continuous and adaptive authentication
- Multi-factor Authentication Biometrics Types of activity
 IP address and Geography Times of the day or week
- Risk assessment engine
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Identity and Access Management

- Open Authorization protocol (OAuth 2.0)
- Multi-factor Authentication Biometrics
- Tokens instead of username + password

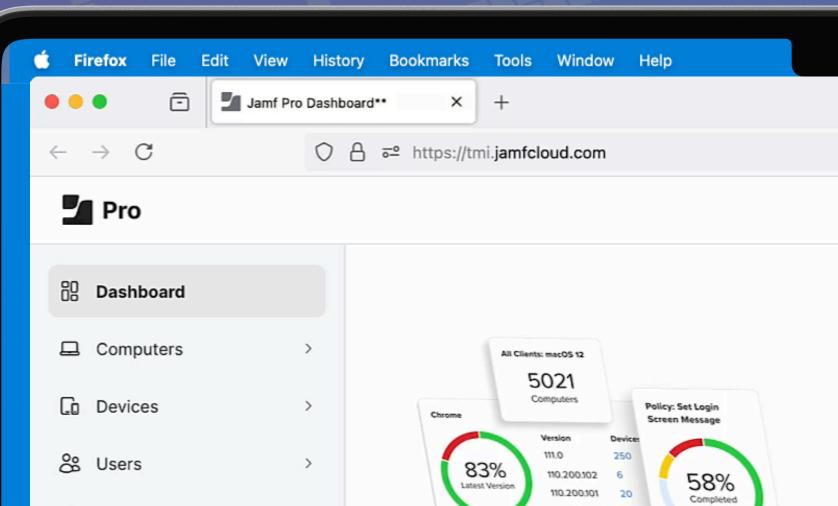


SMTP server adds Identity and Access Management support

1. Create an project in Google IAM for Jamf Pro to access (similar to a user account with a password) 2. Enable the Gmail API for the new project 3. Configure SMTP server settings in Jamf Pro to use the Google Auth







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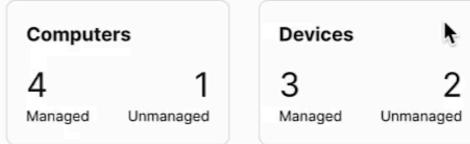
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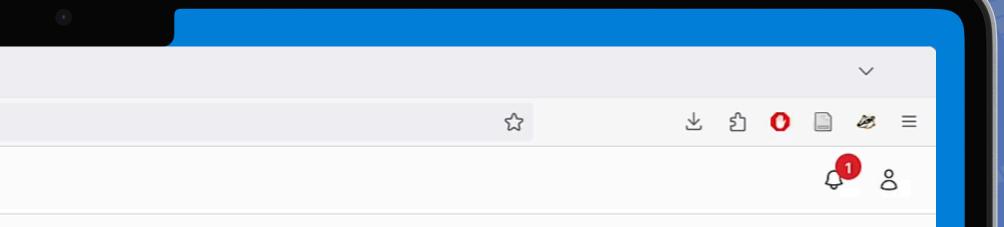
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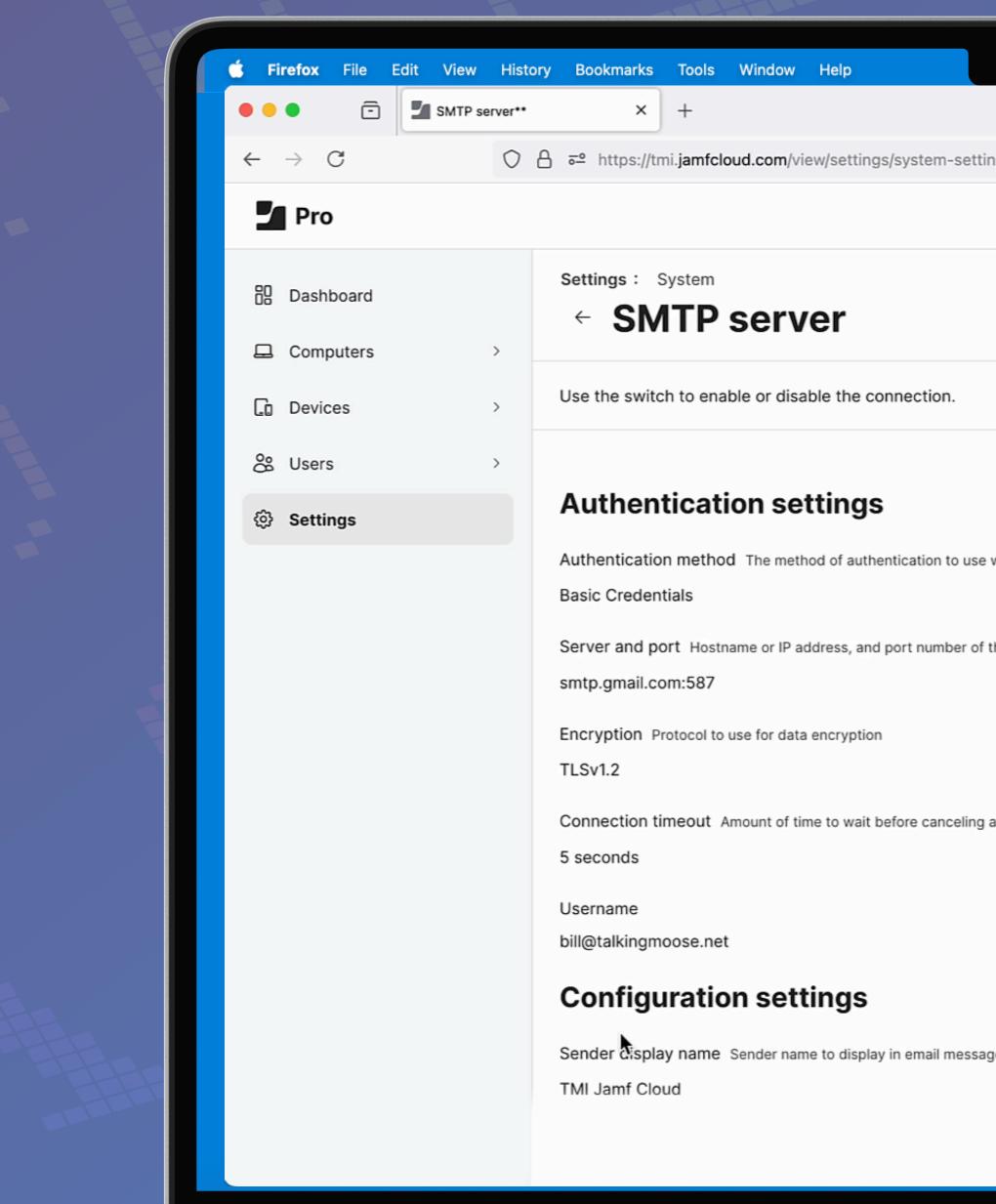
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Jamf Pro Dashboard

The Jamf Pro Dashboard provides a visual overview of the things you care about most in your environment. Add important items to your Dashboard to quickly and easily monitor their statuses.

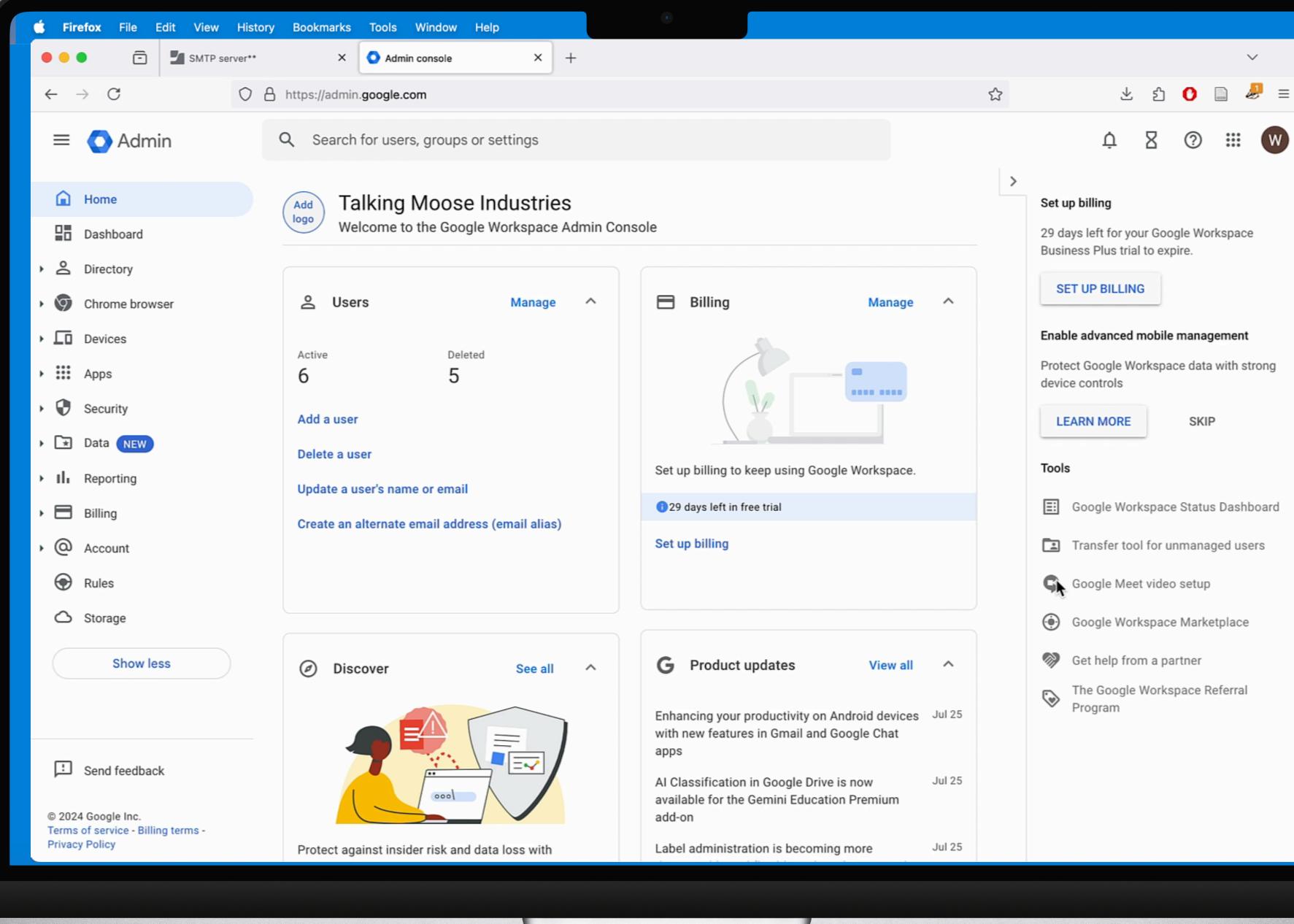






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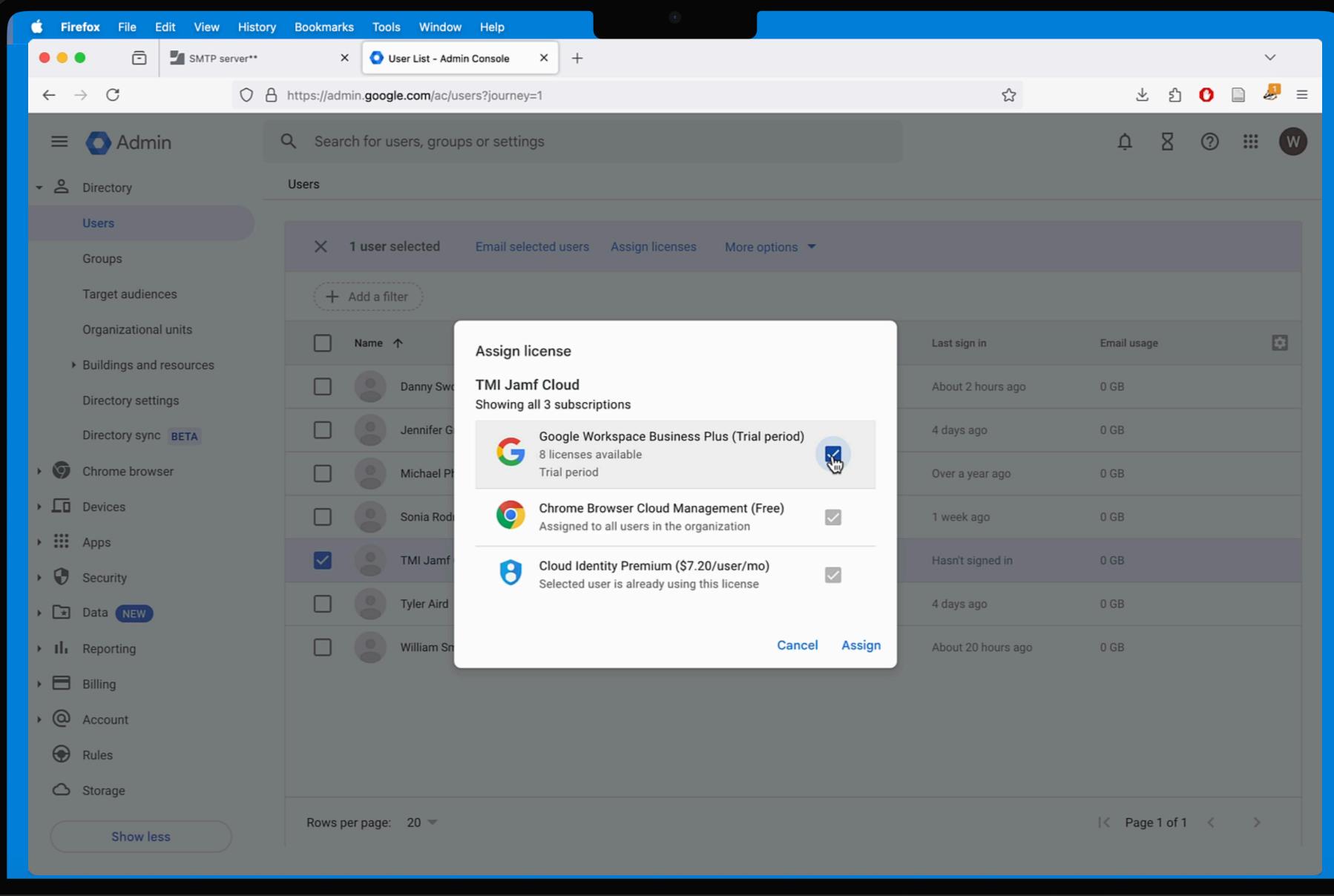






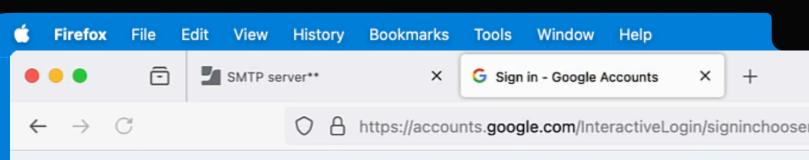
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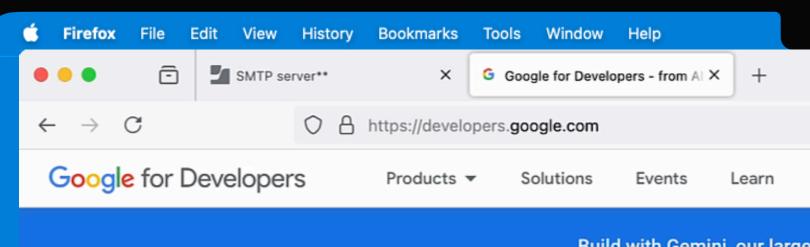


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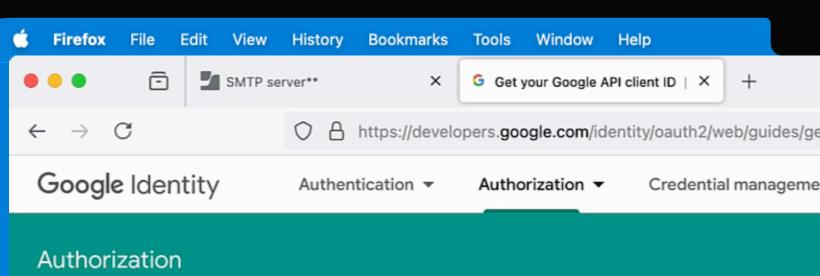
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Google Account Linking

OAuth 2.0	Android	Web

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Overview

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Load the Google 3P Authorization JavaScript Library

Choose a user authorization model

Use authorization code model

Use implicit grant model

Handle errors

Migrate to Google Identity Services

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JavaScript API Reference

Home > Products > Google Identity > Authorization

Third-party cookie deprecation does not affect user

Get your Google API cli

Google Sign-In manages the OAuth 2.0 flow and to revoke access to an application at any time.

Before you can integrate Google 3P Authorization Authorization API.

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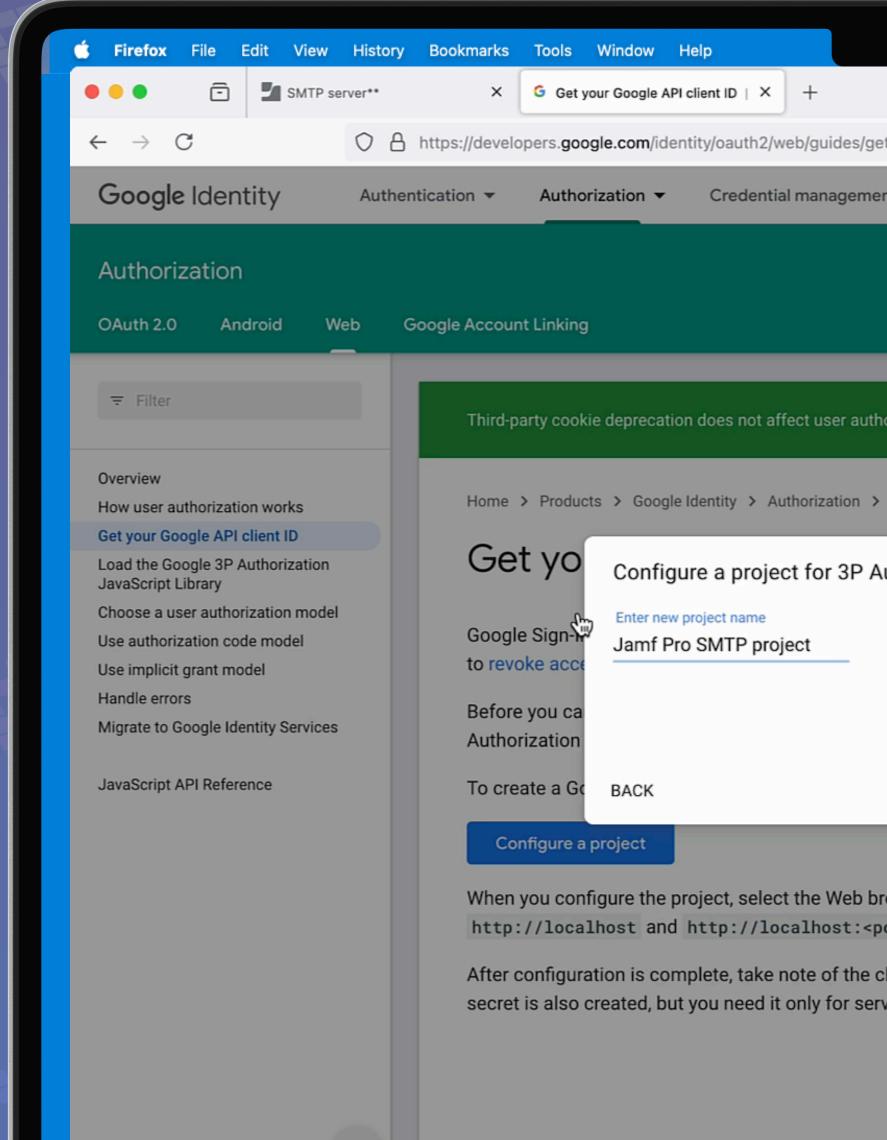
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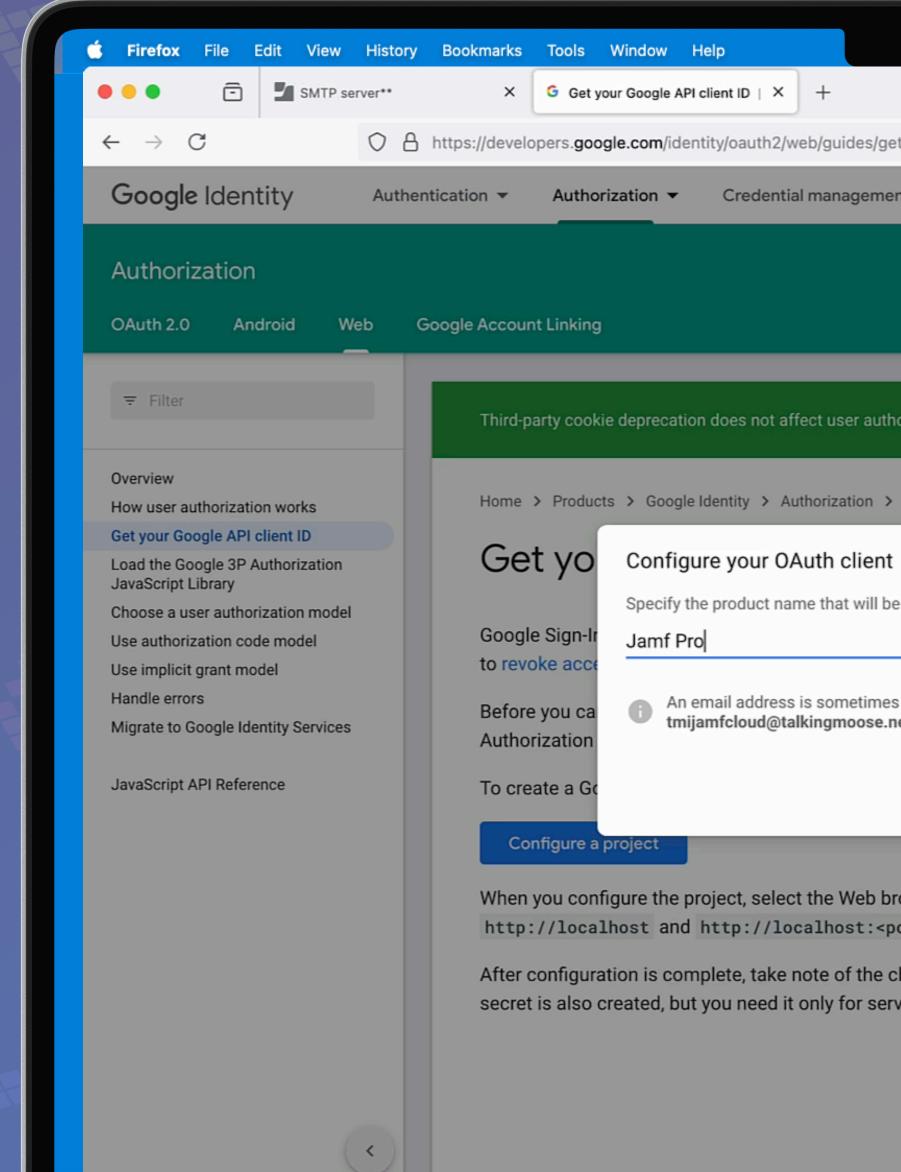
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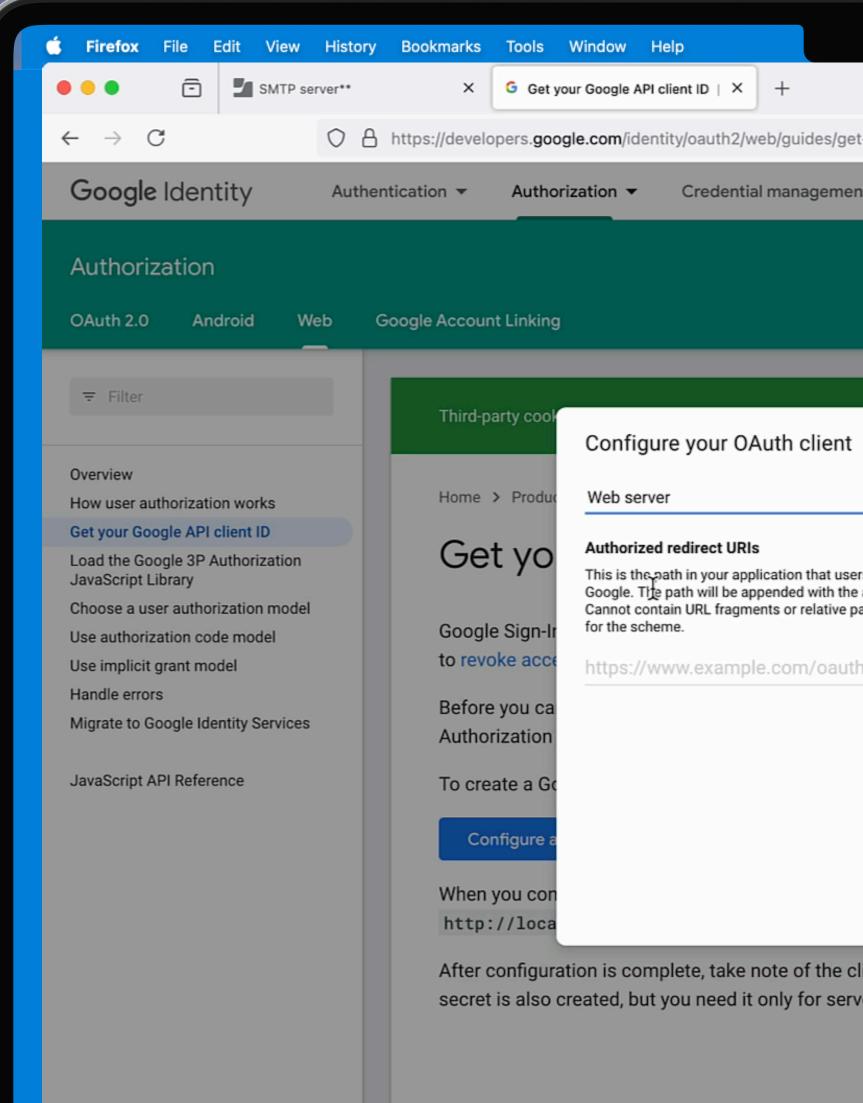
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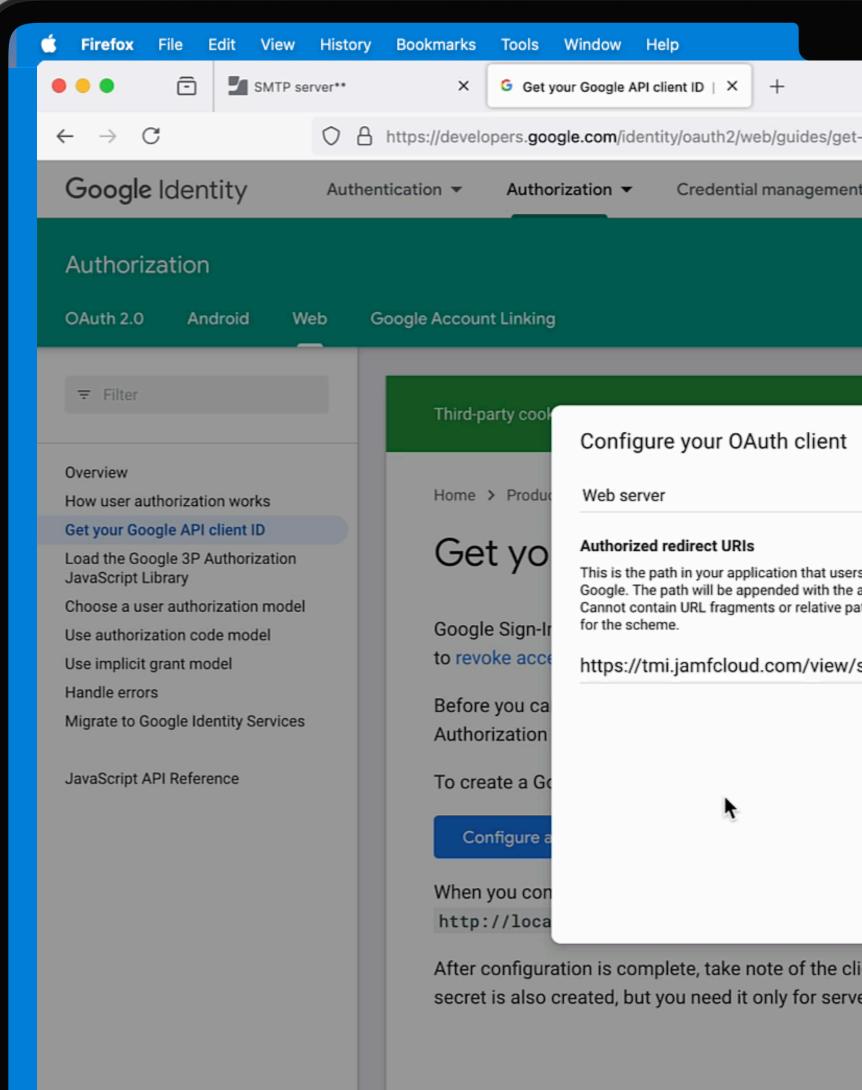
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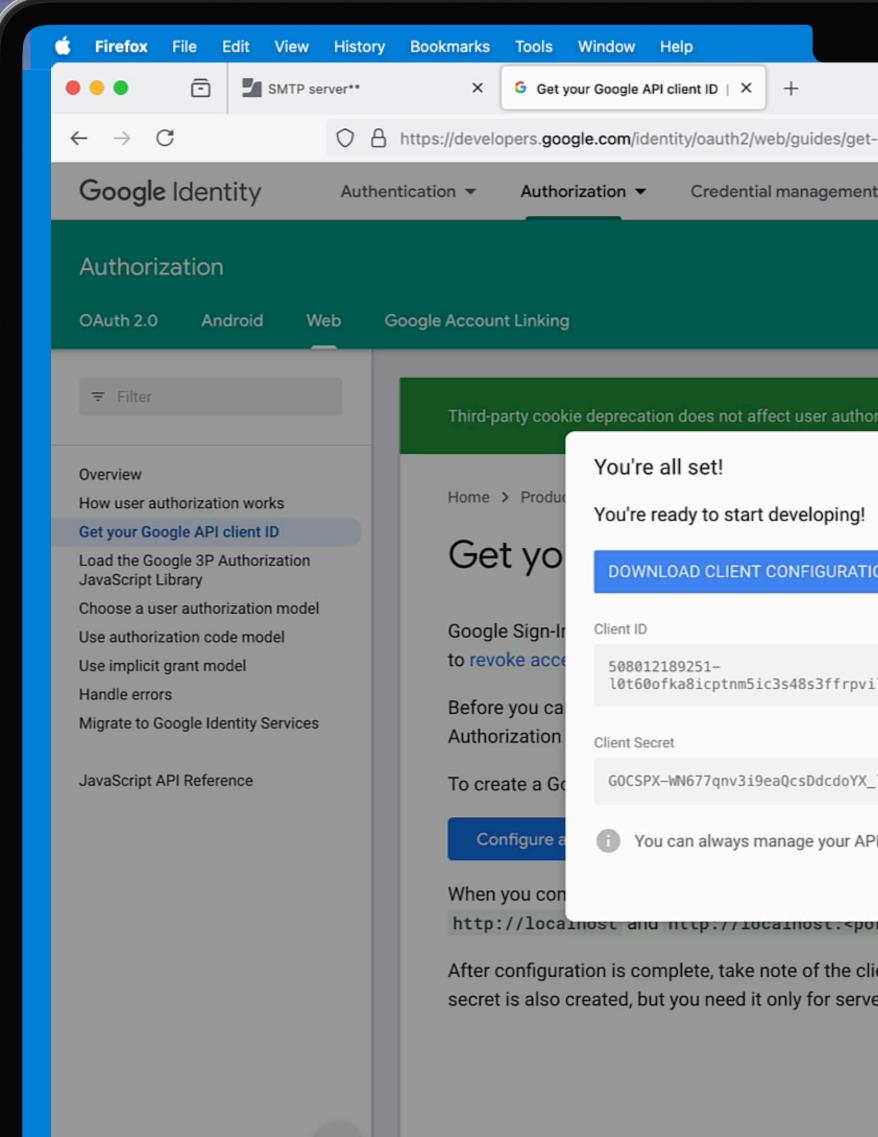
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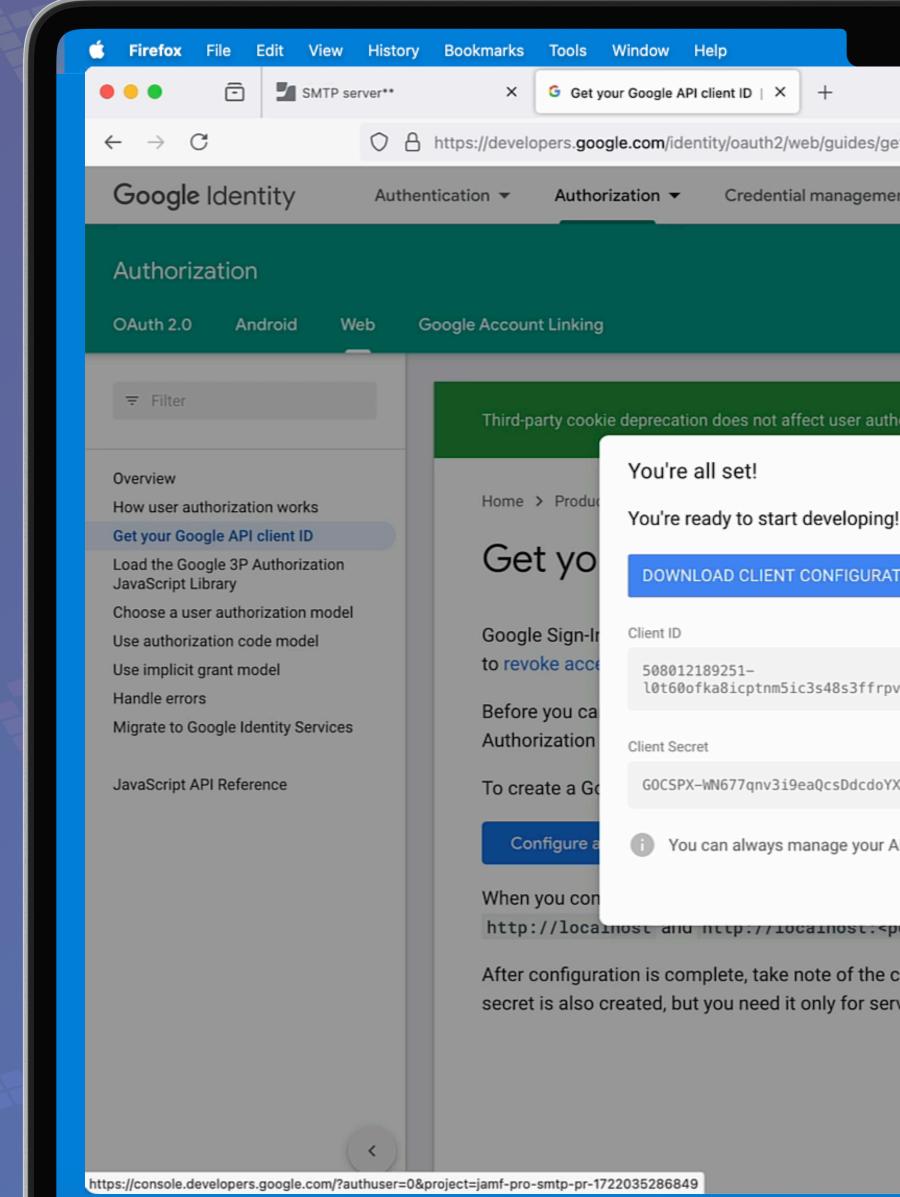
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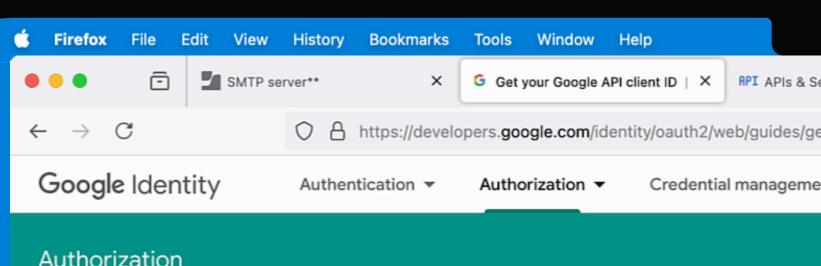


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Google Account Linking

Authorization

OAuth 2.0	Android

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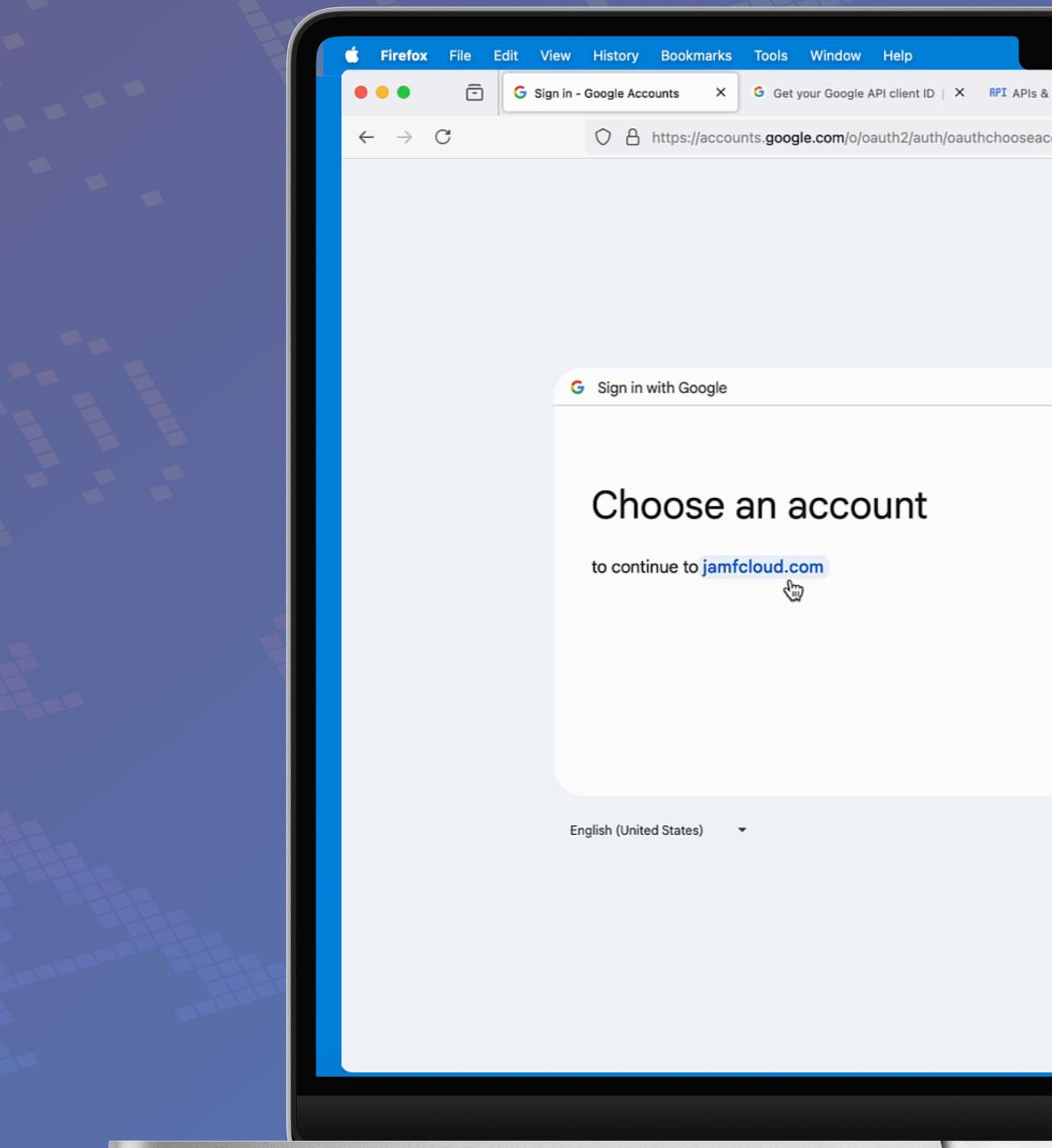
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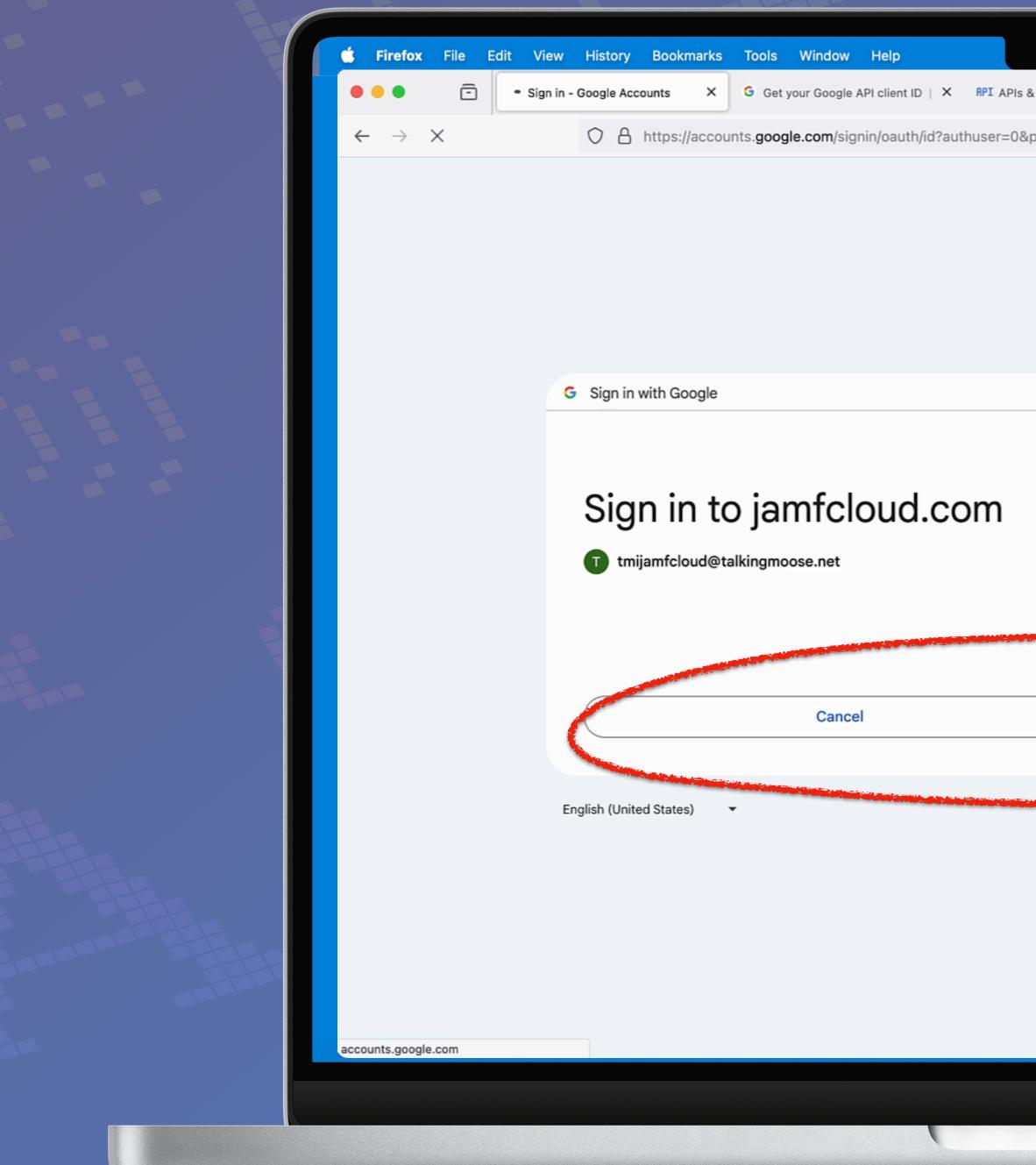
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	Configuration settings Sender email address SMTP account email a	address that Jamf Pro will send emails from			
	Email Address	Status	Default		
	tmijamfcloud@talkingmoose.net Add or reauthenticate an email ac	✓ Authenticated ddress via Google.		£	
				C	⊗ 🖪 Cancel Save



## **SMTP server adds Identity and Access Management support**

1. Create an project in Google IAM for Jamf Pro to access (similar to a user account with a password) 2. Enable the Gmail API for the new project 3. Configure SMTP server settings in Jamf Pro to use the Google Auth



