



Deploying and Updating Zoom with  
Jamf Pro and AutoPkgr



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The purpose of this guide is to provide a workflow for Mac administrators to deploy Zoom with customized settings to multiple Mac computers. This guide uses Jamf Pro as an example mobile device management (MDM) solution and uses a feature called Custom Schema which was introduced in Jamf Pro version 10.19. You'll learn how to customize the Zoom app using the Applications & Custom Settings payload in computer configuration profiles in Jamf Pro. The payload offers you an area where you can directly enter the JSON Schema manifest for the Zoom app and then use the configurable settings generated by Jamf Pro to customize Zoom settings.

Zoom provides an installer package for Mac computers called "Zoom for IT Admins". This installer will support the pre configuration of settings for Zoom settings using a configuration profile that we will create in this guide. This guide includes optional sections for integrating Zoom with Microsoft Outlook for Mac and for keeping Zoom up to date with AutoPkgr and the JSSImporter.

#### Resources:

- If needed, get a Zoom subscription here:  
<https://zoom.us/pricing>
- Download the Zoom for IT Admins Installer here:  
<https://zoom.us/client/latest/ZoomInstallerIT.pkg>
- Download the sample Zoom JSON schema here:  
<https://github.com/talkingmoose/jamf-manifests/blob/master/Zoom%20%28us.zoom.config%29.json>
- If you don't already have it, download the PPPC Utility here:  
<https://github.com/jamf/PPPC-Utility/releases>
- If you don't already have it, download AutoPkgr here:  
<https://github.com/lindgroup/autopkgr/releases/>
- If you don't already have a text editor that doesn't inject unwanted characters into code, such as BBEdit, download and install BBEdit from the Mac App Store or from here:  
<https://www.barebones.com/products/bbedit/>

The following was used for this guide:

- Zoom for IT Admins app
- Sample Zoom JSON schema
- Zoom Add-in for Microsoft Outlook
- PPPC Utility
- AutoPkgr
- Microsoft 365 Admin account
- Microsoft Outlook (already configured for an organizational email account)
- Jamf Pro 10.21 (version 19 or later is required)
- A Mac with macOS 10.15.4 that is enrolled in Jamf Pro

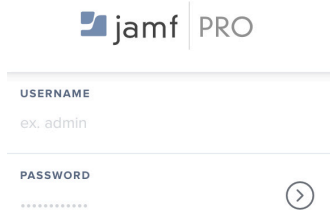
Special thanks to William Smith for creating the Zoom JSON schema file used in this guide.



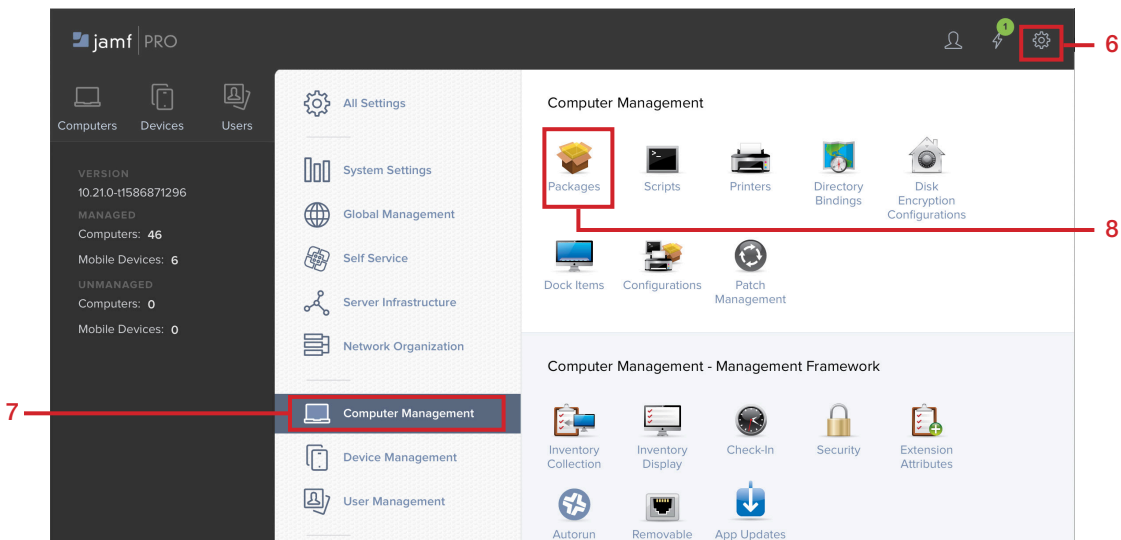
## Section 1: Configure Zoom Settings in Jamf Pro

NOTE: This guide uses the Downloads folder as the default location for all downloads.

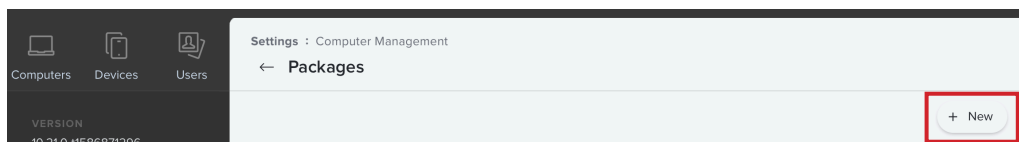
1. If necessary, download the Zoom for IT Admins Installer here:  
<https://zoom.us/client/latest/ZoomInstallerIT.pkg>
2. If necessary, download the PPPC Utility application here:  
<https://github.com/jamf/PPPC-Utility/releases>
3. If necessary, download the Zoom JSON schema here:  
<https://github.com/talkingmoose/jamf-manifests/blob/master/Zoom%20%28us.zoom.config%29.json>
4. Open a web browser of your choosing. This guide uses Safari.
5. Log in to Jamf Pro.



6. In the upper-right corner, click Settings (looks like a gear).
7. Click Computer Management.
8. Click Packages.



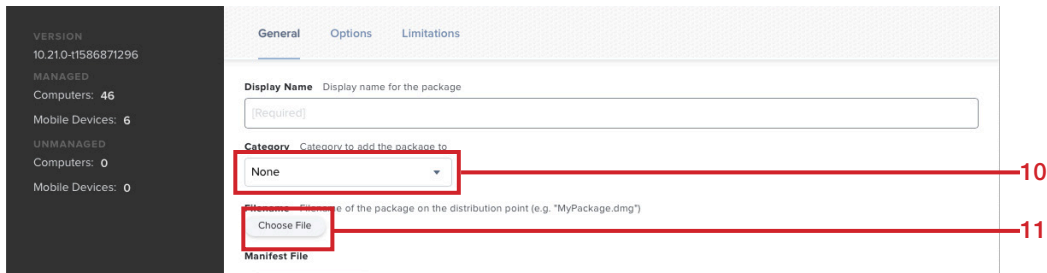
9. Click New.





10. Optional: Choose a Category.

11. Click Choose File.

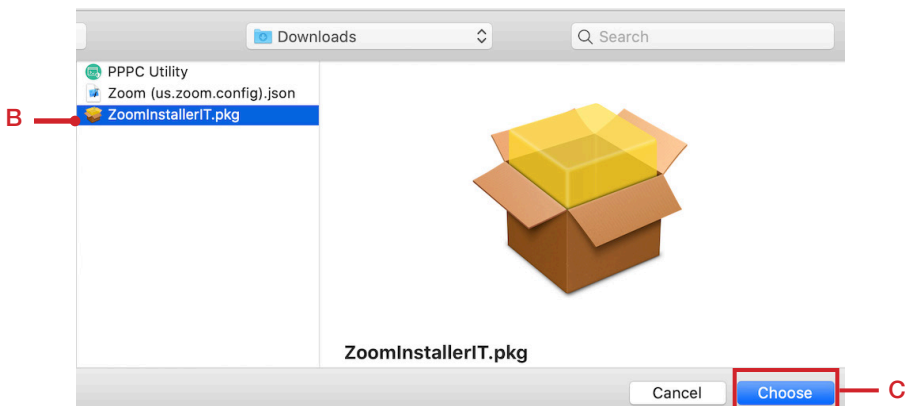


12. Follow these steps:

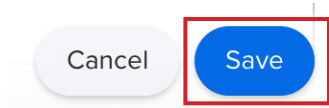
A. Navigate to your Downloads folder.

B. Select the ZoomInstallerIT.pkg file.

C. Click Choose.



13. Click Save.



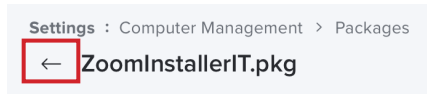
14. Confirm that the file begins to upload to your Jamf Pro distribution point.

**Filename** Filename of the package on the distribution point (e.g. "MyPackage.dmg")  
ZoomInstallerIT.pkg

Uploading 30.2 MB of 33.4 MB (90%)



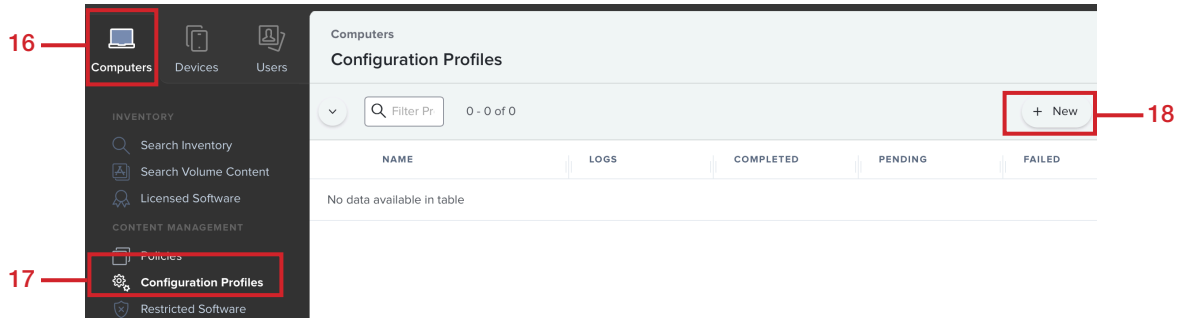
15. Click Back (looks like a left arrow).



16. In the upper-left corner, click Computers.

17. In the sidebar, click Configuration Profiles.

18. In the upper-right corner, click New.

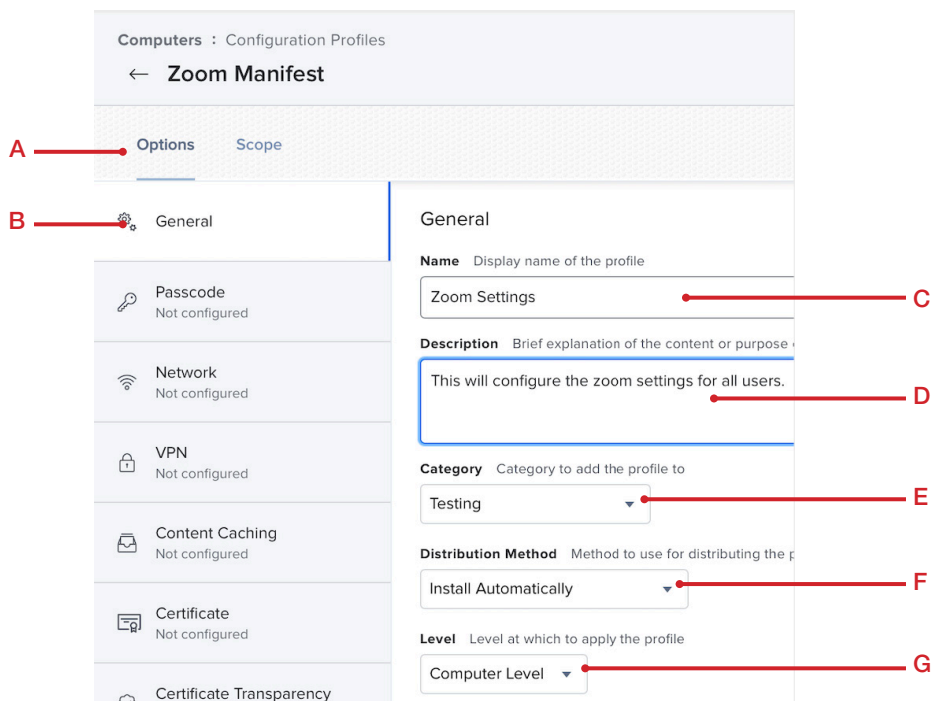


19. Follow these steps:

- A. Click Options.
- B. Click the General Payload.

20. Configure the following settings:

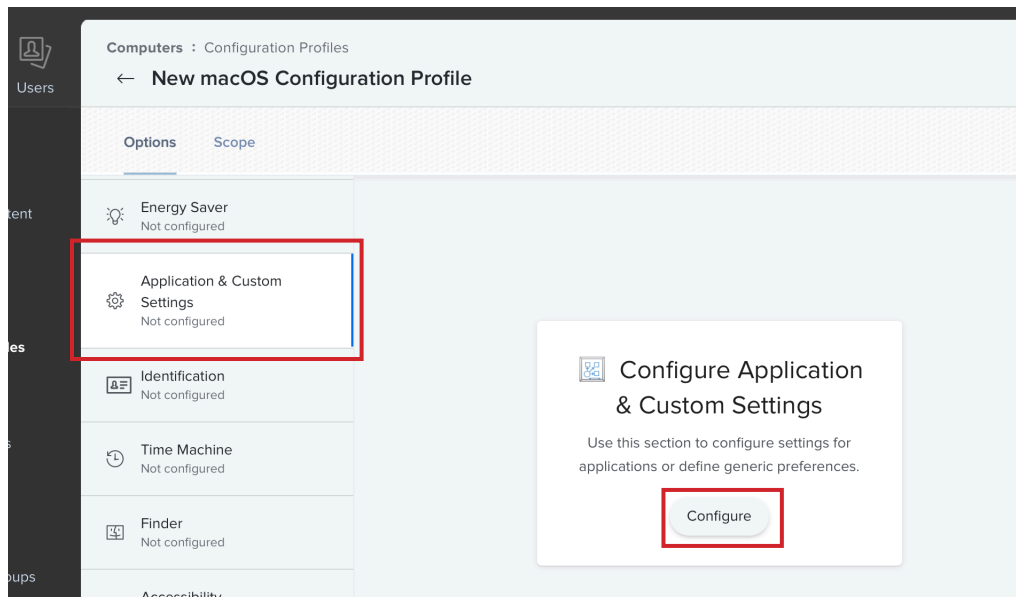
- C. Name: A name of your choosing. This guide uses **Zoom Settings**.
- D. Description: Optional. This guide uses: **This will configure the zoom settings for all users.**
- E. Category: Optional. This guide uses the Testing category.
- F. Distribution Method: Install Automatically.
- G. Level: Computer Level





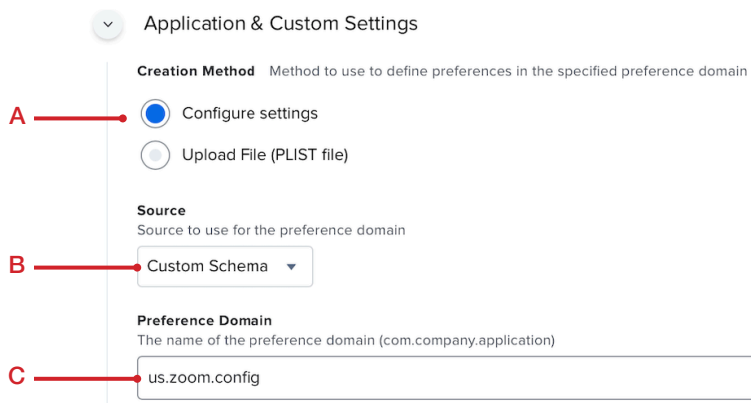
20. Scroll down and select the Application & Custom Settings payload.

21. Click Configure.



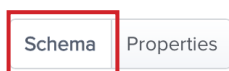
22. Configure the following settings:

- A. Creation Method: Configure settings
- B. Source: Custom Schema
- C. Preference Domain: **us.zoom.config**



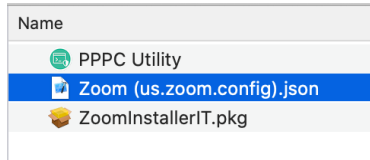
23. Scroll down (if necessary) and click Schema if it's not already selected.

Application Properties





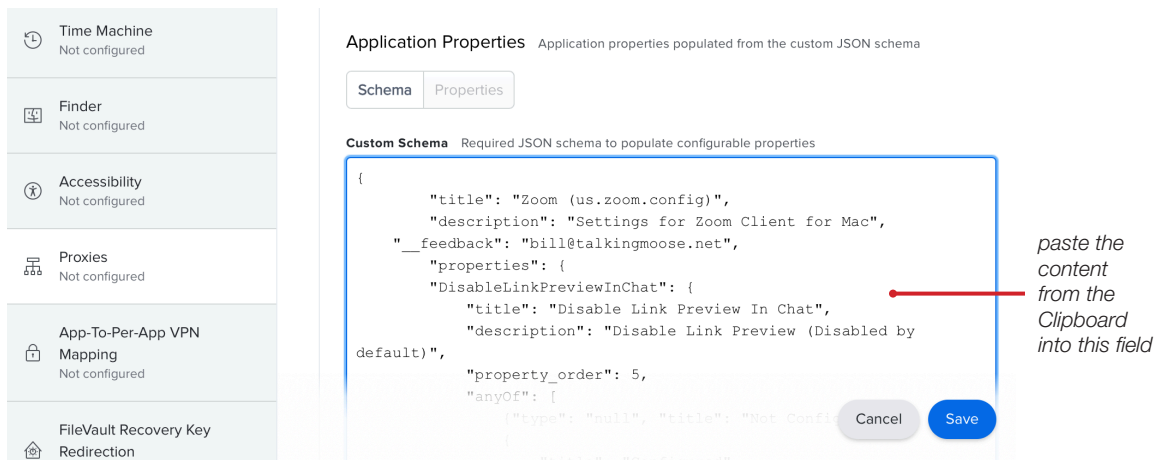
- Using a text editor, open the Zoom (us.zoom.config).json file located in the Downloads folder.  
NOTE: This guide uses BBEdit as the text editor.



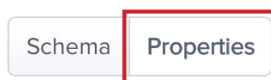
- Press Command-A to select all the text then press Command-C to copy it to the Clipboard.

```
{
  "title": "Zoom (us.zoom.config)",
  "description": "Settings for Zoom Client for Mac",
  "__feedback": "bill@talkingmoose.net",
  "properties": {
    "DisableLinkPreviewInChat": {
      "title": "Disable Link Preview In Chat",
      "description": "Disable Link Preview (Disabled by default)",
      "property_order": 5,
      "anyOf": [
        { "type": "null", "title": "Not Configured" },
        {
          "title": "Configured",
          "type": "boolean"
        }
      ]
    }
  }
}
```

- Quit BBEdit.
- In Jamf Pro, click the Custom Schema field.
- Press Command-V to paste the text you copied in step 25.



- Click Properties.



NOTE: The Properties section contains all the settings that can be configured for Zoom. For a full list of all configurable key value pairs in zoom, go here:

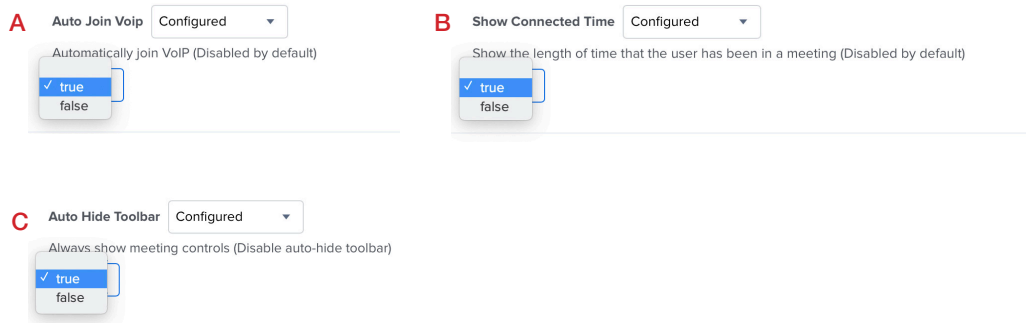
[https://support.zoom.us/hc/en-us/articles/115001799006-Mass-Deployment-with-Preconfigured-Settings-for-Mac#h\\_40df938d-107f-4c0b-87f6-f831b31a76b7](https://support.zoom.us/hc/en-us/articles/115001799006-Mass-Deployment-with-Preconfigured-Settings-for-Mac#h_40df938d-107f-4c0b-87f6-f831b31a76b7)



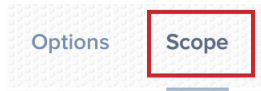


30. For simplicity, configure only the following settings (you may need to scroll to find each setting):

- A. Auto Join Voip: Configured: true
- B. Show Connected Time: Configured: true
- C. Auto Hide Toolbar: Configured: true

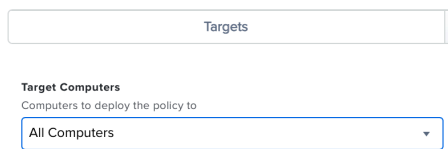


31. Click Scope.

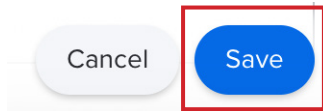


32. Set Target Computers to your needs. For simplicity, this guide uses All Computers.

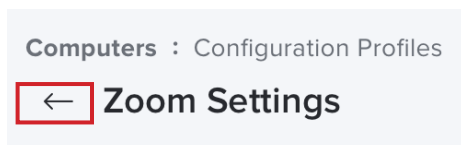
NOTE: In a production environment consider using a different scope of computers that will have Zoom installed. If you install this configuration profile on a Mac that never gets Zoom installed, the configuration profile doesn't interfere with anything, but the existence of a profile for Zoom for a Mac that doesn't have Zoom might be confusing.



33. Click Save.



34. Click Back (looks like a left arrow).



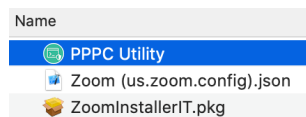


## Section 2: Configure a Privacy Preference Policy Control profile for Zoom

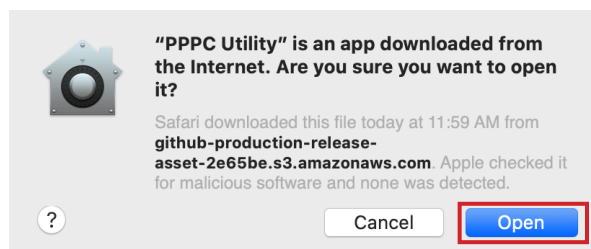
On an unmanaged Mac, the first time you open Zoom, you'll see a dialog asking to allow Zoom access to the Downloads folder. However, for a Mac that you manage with Jamf Pro, you can use a configuration profile to allow apps to access certain files used for system administration, and to access application data. For example, if an app requests access to your Downloads folder, the configuration profile can allow or deny the request without user intervention. As an MDM administrator, you can apply a configuration profile with the Privacy Preferences Policy Control payload to stop these messages from being presented to the user. Not all messages can be managed using the Privacy Preferences Policy Control payload. For example, access to the Camera, Microphone, and Screen Recording (Screen Recording is required in order to share your screen) must be approved by the user and cannot be managed by an MDM server.

You'll use the PPPC Utility app to configure PPPC settings for Zoom and upload those settings as a new configuration profile in Jamf Pro.

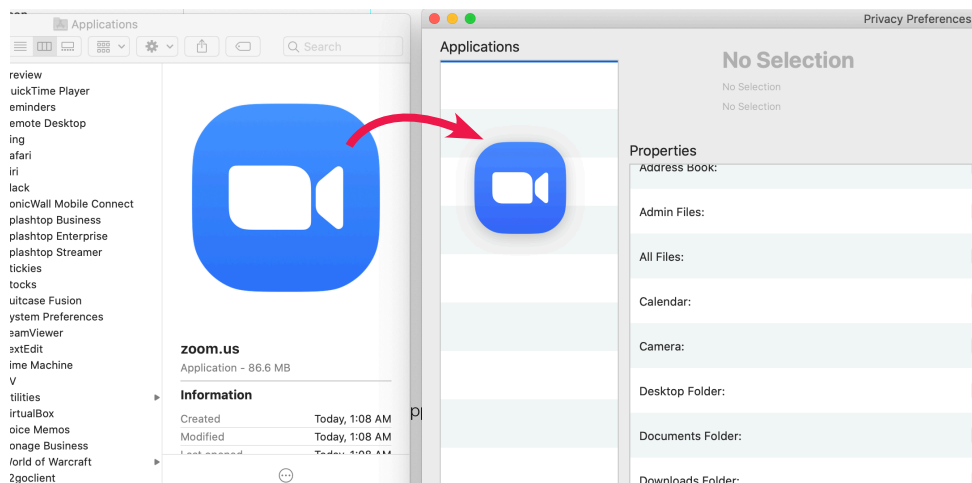
1. If necessary, Download the PPPC Utility here: <https://github.com/jamf/PPPC-Utility/releases>  
Open the PPPC Utility application located in the Downloads folder.



2. If presented with the message below, click Open.

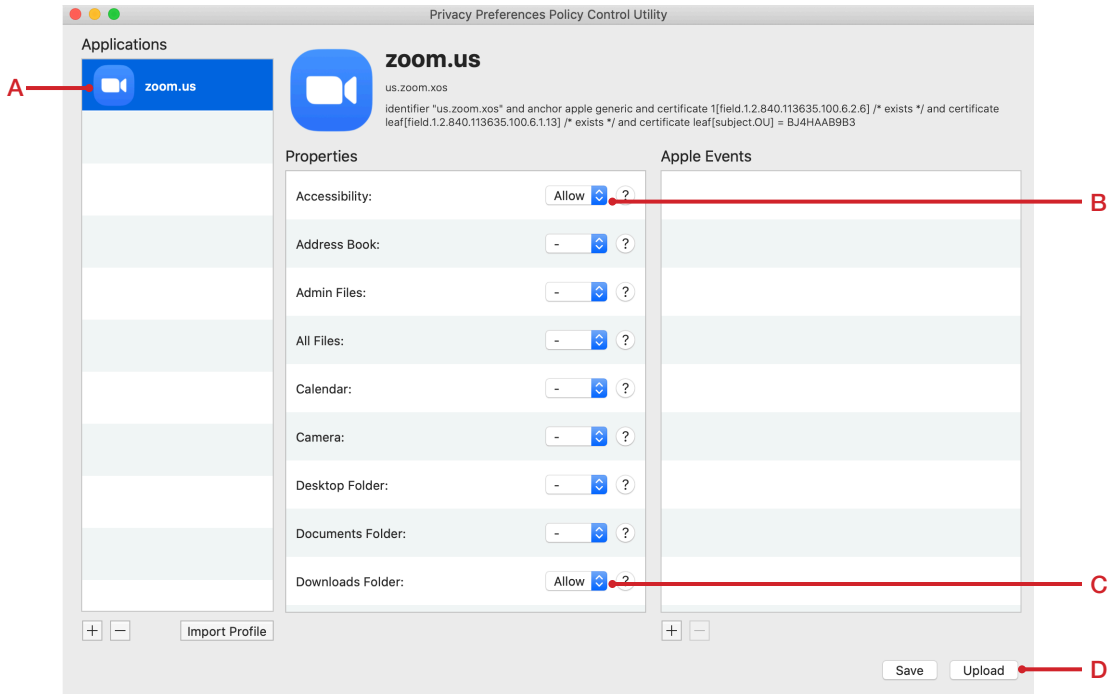


3. Follow these steps:
  - A. Open the Applications folder.
  - B. Locate the Zoom app, named zoom.us.
  - C. Drag the Zoom app to the Applications section in the PPPC Utility app.

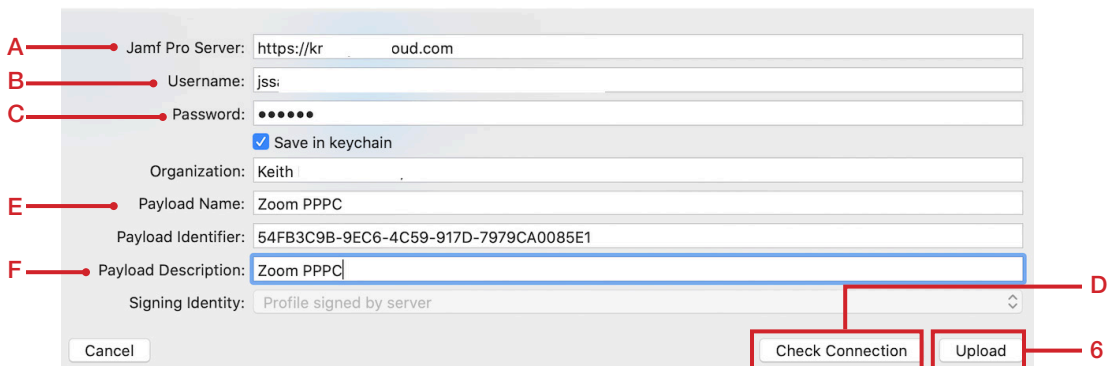




4. Use the following steps to configure the PPPC settings for the Zoom app:
  - A. In the Applications column, select zoom.us.
  - B. In the Properties column, next to Accessibility, click the menu and choose Allow.
  - C. In the Properties column, next to Downloads Folder, click the menu and choose Allow.
  - D. Click Upload.

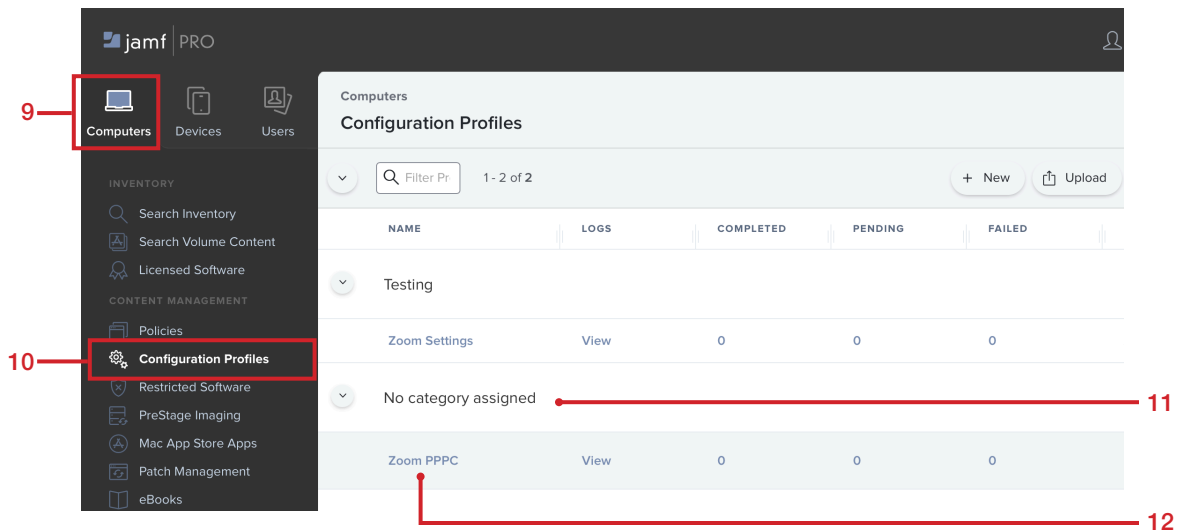


5. Configure the following settings:
  - A. Jamf Pro Server: Enter the URL of your Jamf Pro server.  
NOTE: If you use an Identity Provider (IdP) to log in to Jamf Pro, when you enter your Jamf Pro URL use the following pattern: `https://hcs.jamfcloud.com/?failover` where you replace "hcs.jamfcloud.com" with your organization's URL.
  - B. Username: Enter a Jamf Pro administrative account name.
  - C. Password: Enter a Jamf Pro administrative password.
  - D. Click Check Connection. If the connection was successful, the PPPC Utility automatically enters the appropriate information in the Organization field. Otherwise, double-check the Jamf Pro Server, Username, and Password fields and click Check Connection again.
  - E. Payload Name: Enter a name of your choice; this guide uses **Zoom PPPC**.
  - F. Payload Description: Optional: Enter a description of your choice; this guide uses **Zoom PPPC**.
6. Click Upload - This will create the Zoom PPPC configuration profile on your Jamf Pro server.





7. Quit the PPPC Utility application.
8. If necessary, log in to Jamf Pro.
9. Click Computers.
10. Click Configuration Profiles.
11. Confirm that the configuration profile you just uploaded with the PPPC Utility is displayed in the “No category assigned” section.
12. Click Zoom PPC.



13. In the lower-right corner, click Edit.



14. Optional: Click the Category menu then choose a category. This guide uses Testing.

General

**Name** Display name of the profile

**Description** Brief explanation of the content or purpose of the profile

**Category** Category to add the profile to

**Distribution Method** Method to use for distributing the profile

**Level** Level at which to apply the profile



15. Scroll down if necessary and select the Privacy Preferences Policy Control payload.
16. Confirm that the settings were automatically applied by the PPPC Utility app.

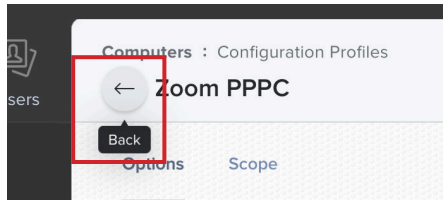
17. Click Scope.

18. Set Target Computers to your needs. For simplicity, this guide uses All Computers, but in a production environment you may choose to use a different scope.

19. Click Save.

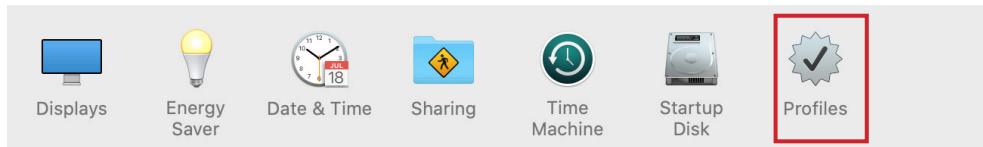


20. Click Back (looks like a left arrow).

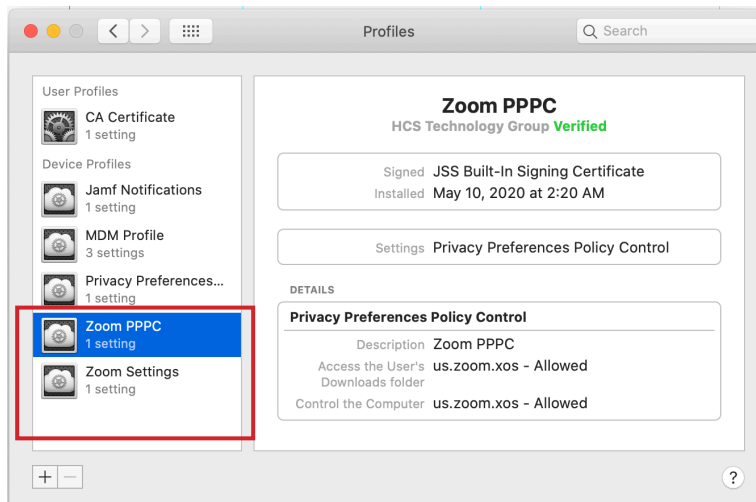


21. On your test Mac, open System Preferences.

22. Click Profiles.



23. Confirm the Zoom PPC and Zoom Settings profiles are installed.

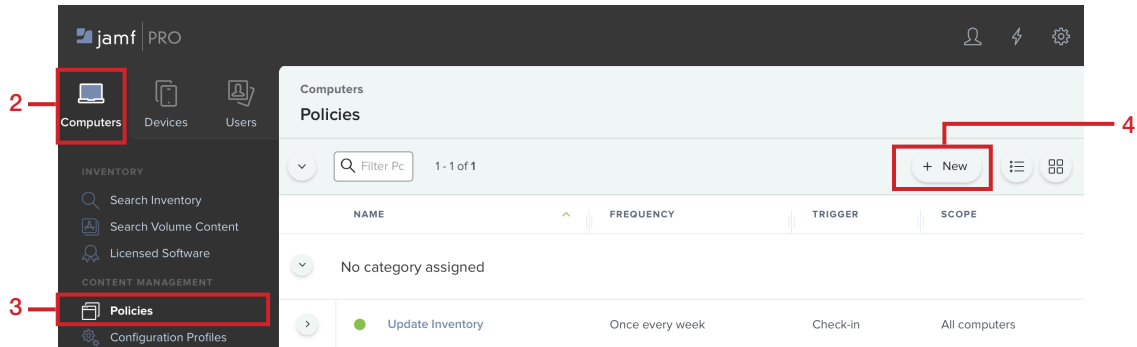


24. Quit System Preferences.

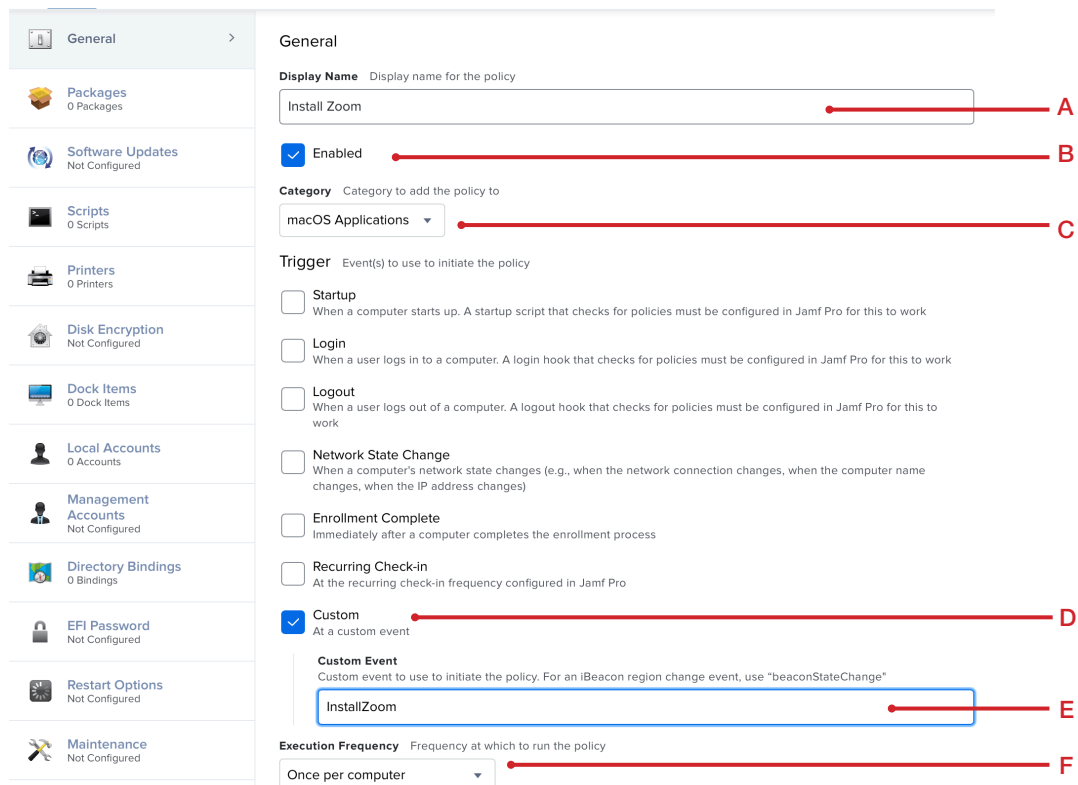


### Section 3: Create a policy to Install Zoom

1. If necessary, log in to Jamf Pro.
2. Click Computers.
3. Click Policies.
4. Click New.



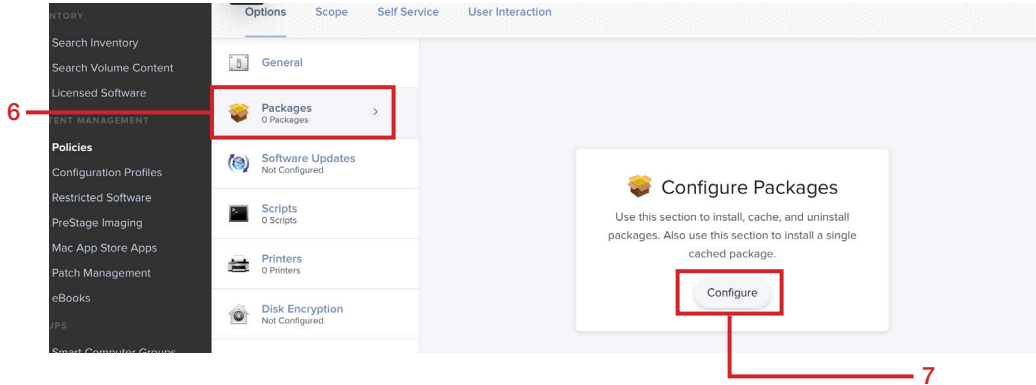
5. Configure at least the following settings:
  - A. Display Name: A name of your choosing. This guide uses **Install Zoom**.
  - B. Enabled: Checkbox selected
  - C. Category: Optional: This guide uses "macOS Applications."
  - D. Trigger: Select the checkbox for the "Custom" option.
  - E. Trigger: Custom Event: Enter a name of your choice; this guide uses **InstallZoom**.
  - F. Execution Frequency: Choose a frequency; this guide uses "Once per computer."





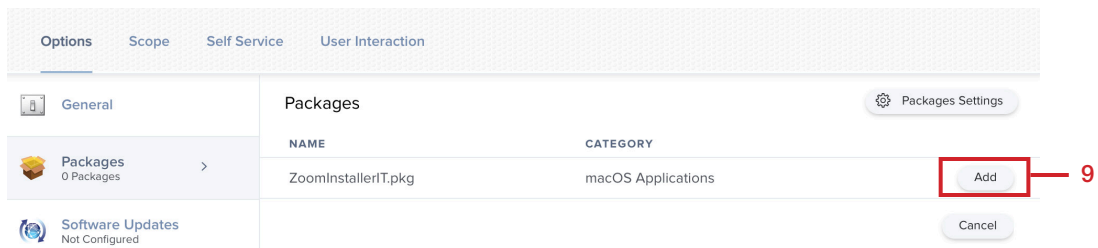
6. Click the Packages payload.

7. Click Configure.

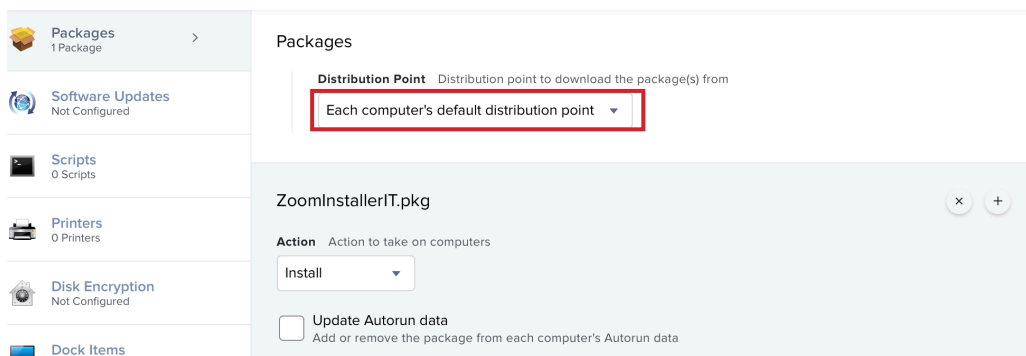


8. Find the ZoomInstallerIT.pkg entry.

9. For the ZoomInstallerIT.pkg entry, click Add.



10. Choose a Distribution Point if needed. This guide uses the default settings.



11. Click Scope.







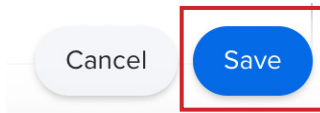
12. Set Target Computers to your needs. For simplicity, this guide uses All Computers.

Targets

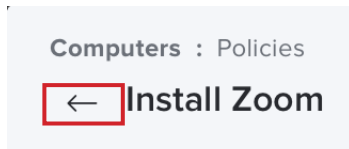
**Target Computers**  
Computers to deploy the policy to

All Computers

13. Click Save.



14. Click Back (looks like a left arrow).



NOTE: These steps require the test Mac you're using to be enrolled in Jamf Pro.

15. On your test Mac that's enrolled in Jamf Pro, open Terminal.

16. Run the following command to run the policy that installs Zoom on your Mac computer (use the custom event name you specified in step 5 of this section):

```
sudo jamf policy -event InstallZoom
```

17. Enter your administrative credentials when prompted.

18. The Zoom installation process will start.

19. Confirm Zoom was installed in the Applications Folder. Do **NOT** open the Zoom app at this time, because in the next section you'll use browser to join a Zoom meeting and open the Zoom app.



zoom.us

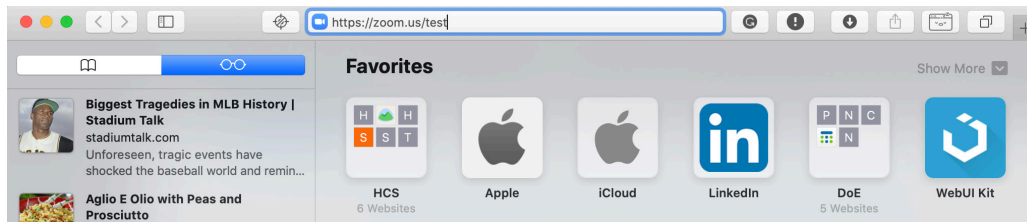


## Section 4: Test Zoom Configuration Settings

In this section you'll confirm that your test Mac is configured with the following:

- custom app settings for Zoom
- privacy settings in macOS for Zoom

1. On your test Mac, a web browser of your choice. This guide uses Safari.
2. In the address field, enter **https://zoom.us/test** and press Return.

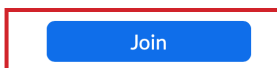


3. Click Join.



### Join Meeting Test

Test your internet connection by joining a test meeting.



4. Confirm that the Zoom app opens.

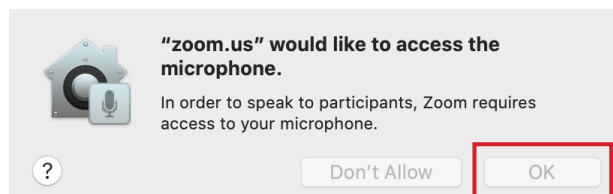


zoom.us

NOTE: The order of the prompts in steps 5 - 7 can be different from what's shown in this guide.

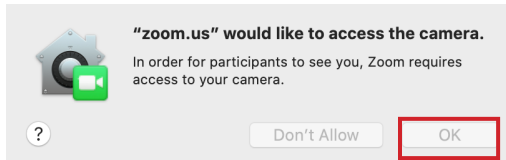
5. At the prompt to allow access to your microphone, Click OK.

NOTE: As stated in Section 2 of this guide, you cannot use an MDM solution to manage access to the microphone.



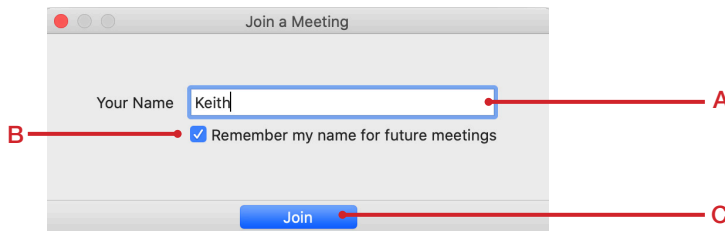


6. At the prompt to allow access to your camera, Click OK.  
NOTE: As stated in section 2 of this guide, you cannot use an MDM solution to manage access to the camera.

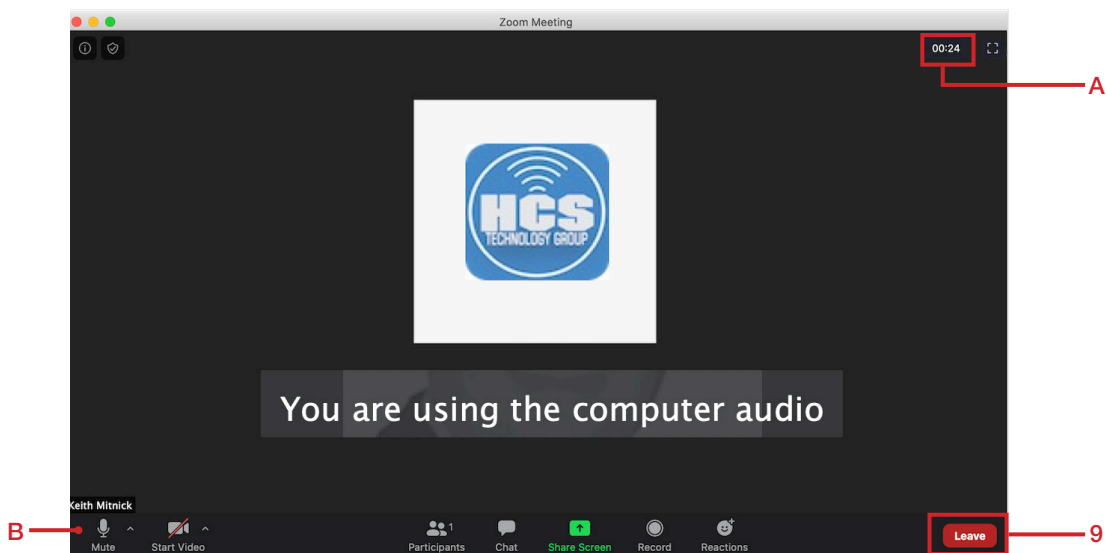


7. When the Zoom meeting begins, if you are asked to provide your name before joining the meeting, enter the following:
  - A. Your Name: Enter your name. This guide uses **Keith** as the name.
  - B. Optional: Select the checkbox for "Remember my name for future meetings."
  - C. Click Join.

Confirm that the PPPC profile prevents Zoom from prompting you to allow Zoom to access the Downloads folder. Note: Although the PPPC profile grants Zoom access to the Downloads folder, the Privacy pane of Security & Privacy preferences displays only settings that the user configures; the PPPC settings are not visible in Security & Privacy preferences.

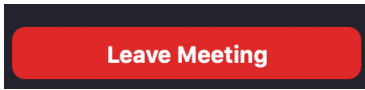


8. Confirm the following Zoom settings have been automatically configured:
  - A. The meeting duration time is in the upper-right corner.
  - B. The toolbar on the bottom of the meeting screen is not hidden.
  - C. You were not prompted to configure audio settings. Computer audio is automatically configured.
9. In the bottom right corner, click Leave.





10. Click Leave Meeting.



11. Quit the Zoom app.



## Section 5: Optional: Configure the Microsoft Outlook Add-in for Zoom

The Microsoft Add-in for Zoom allows you to schedule a Zoom meeting directly in Microsoft Outlook. Zoom recommends using the Zoom Scheduler add-in for Microsoft 365 (desktop or mobile), particularly if your organization has computers running macOS. Starting in June 2020, Microsoft will block injection-based plug-ins from running in Outlook for macOS, and allow only add-ins available through the Microsoft store. So we recommend migrating your organization to the add-in instead of using the desktop plug-in.

NOTE: Configuring Microsoft Outlook for an email account is outside the scope of this guide.

1. On a Mac with Microsoft Outlook installed, sign in to the Microsoft 365 admin portal: <https://portal.office.com/AdminPortal/Home#/homepage>
2. Enter your Microsoft 365 administrative account name.
3. Click Next.

Microsoft

### Sign in

Email, phone, or Skype 2

No account? [Create one!](#)

[Can't access your account?](#)

[Sign-in options](#)

**Next** 3

4. Enter your Microsoft 365 administrative password.
5. Click Sign in.

Microsoft

← kr [redacted]@hctestgroup.com

### Enter password

.....| 4

[Forgot my password](#)

**Sign in** 5

6. At the "Stay signed in?" screen, make a choice. This guide uses the Yes button.

Microsoft

kr [redacted]@hctestgroup.com

### Stay signed in?

Do this to reduce the number of times you are asked to sign in.

Don't show this again

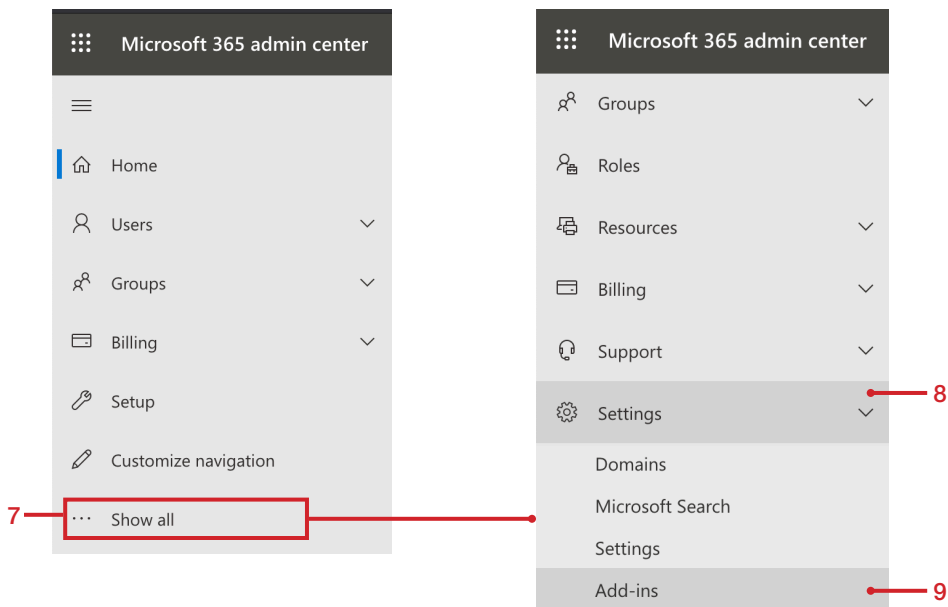
No **Yes**



7. In the sidebar, click "Show all."

8. Select Settings.

9. Select Add-ins.



10. Click Deploy Add-in.

HCS Technology Group

## Add-ins

+ Deploy Add-In

Name ↑

11. Click Next.

## Deploy a new add-in

The Centralized Deployment service lets you de

Learn more about the requirements for [Centralized](#)

Add-ins deployed from the Store will automatically  
increases the scope of data access, you must re-ap

Next

Cancel



12. Click “Choose from the Store”.

### Deploy a new add-in

**Deploy from the Store**  
Get solutions tailored to your industry that work with the products you already use.

**Choose from the Store**

**Deploy a custom add-in**  
Create a new web application, or upload an add-in / integration for Office.

**Upload custom apps**

13. In the search field, enter **zoom**, then click Add.

### Select add-in

Add-ins may access personal and document information. By using an add-in, you agree to its Permissions, License Terms and Privacy Policy.

Suggested for you

Products

All

Excel



#### Zoom for Outlook

Add a Zoom meeting to any Outlook calendar event.

★★★★☆

Add

14. Click Continue.

One moment...



#### Zoom for Outlook

License terms and Privacy policy

By clicking continue, you agree to the provider's [license terms](#) and [privacy policy](#) and understand that the rights to use this product do not come from Microsoft, unless Microsoft is the provider.

Cancel

Continue

15. Select Everyone.

### Configure add-in



#### Zoom for Outlook

By Zoom Video Communications, Inc

Assign Users

Choose which users will have access to Zoom for Outlook

Everyone

Specific users / groups

Search for specific users or groups to add or remove

Start typing a name to search for users

Just me



16. Select Fixed (Default), then click Deploy.

**Deployment Method**

**Fixed (Default)**  
The add-in will be automatically deployed to

**Available**  
Users may install this add-in by clicking the G

**Optional**  
The add-in will be automatically deployed to

**After you choose 'Deploy', the add-in will be available**

17. Confirm that the add-in was successfully deployed.

### Deploy Zoom for Outlook

✔ Your add-in has been deployed.

You will receive an email notification confirming your successful deployment.  
**It will take up to 12 hours for the add-in to be displayed on users' ribbons - users might need to relaunch Office.**

**Get started with the add-in**

Once deployment completes, to test that it is successful, launch the applicable Office app to confirm that the add-in is present on the ribbon.

You can force the list of installed add-ins to refresh by launching the Office app and navigating to the Insert tab > My Add-ins > Admin Managed.

**Outlook add-ins can take up to 12 hours after deployment to become available.**

18. Click Next.

19. Confirm that your browser displays a message that explains that Microsoft will send an email to you containing content about the add-in.

### Announce add-in



**Zoom for Outlook**  
By Zoom Video Communications, Inc

Studies have shown that adoption of new software is significantly more successful when users are informed and trained to use the new capabilities.

✉ Tell users about their new add-in by sending out an informative email.

This could include:

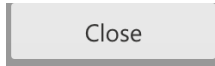
- How this add-in can make their work easier and quicker
- Where they can find the add-in
- Who in particular will the add-in be useful for

We'll send you an email shortly containing content you can use to help you announce the add-in to your users.





20. Click Close.



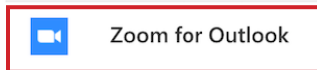
21. Confirm that the sidebar now contains the "Zoom for Outlook" add-in.

HCS Technology Group

## Add-ins

+ Deploy Add-In

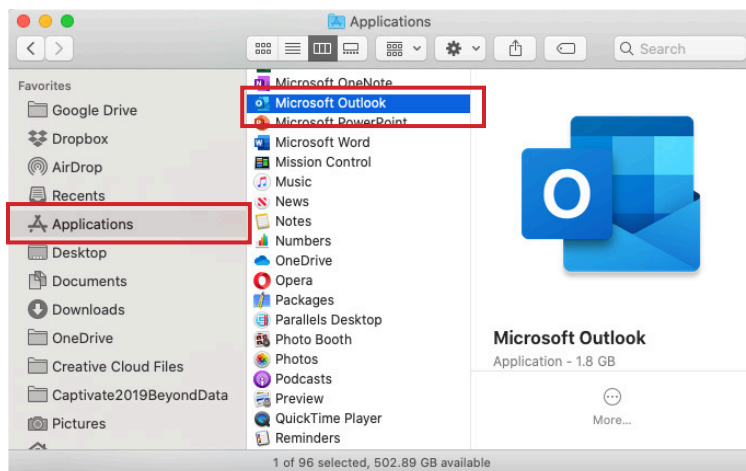
Name ↑



22. Log out of the Microsoft 365 Admin portal.

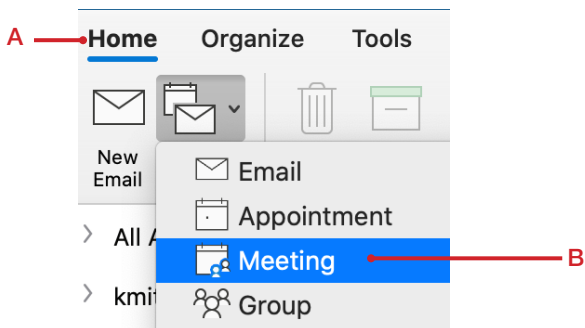
23. In the Finder, open the Applications folder.

24. Open Microsoft Outlook.





- 25. In the toolbar, follow these steps:
  - A. Click Home.
  - B. Click New Items and choose Meeting.



- 26. Enter the meeting information. For testing purposes send the invite to a friend or a secondary email account.

From: Calendar - kmitnick@hcstechgroup.com

To: Craig Cohen

Subject: HCS Happy Hour

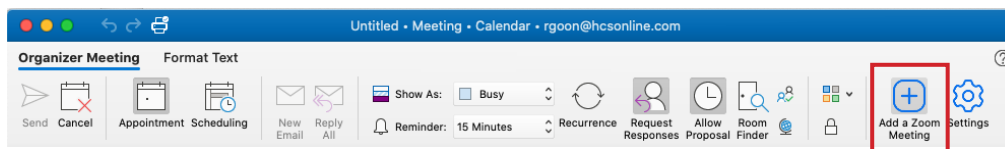
Location: HCS Bohemia Office

Duration: 1 Hour  All day event

Starts: 4/29/2020 3:00 PM

Ends: 4/29/2020 4:00 PM

- 27. In the toolbar, click "Add a Zoom Meeting."



- 28. Sign in to your Zoom account.

Office Add-ins - zoom.us

Easily add a Zoom meeting to your Outlook Calendar event. [Learn more](#)

Sign In Zoom.us

rgoon@hconline.com

.....

Keep me signed in [Forgot password?](#)

**Sign In**

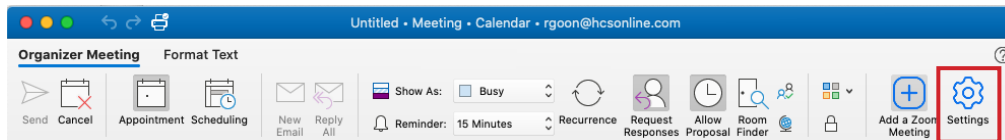
Don't have an account? [Sign Up](#)

or

Sign in with SSO



29. In the toolbar, on the right side, click Settings.

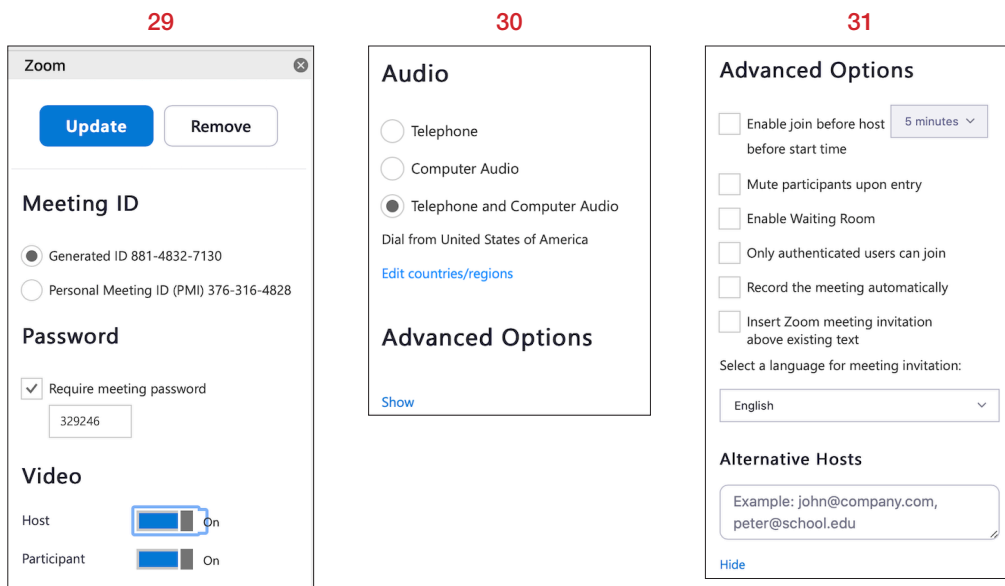


29. Optional - Configure Video settings.

30. Optional - Configure Audio Settings.

NOTE: The settings for audio for this guide will be configured by the configuration profile we configured earlier in the guide.

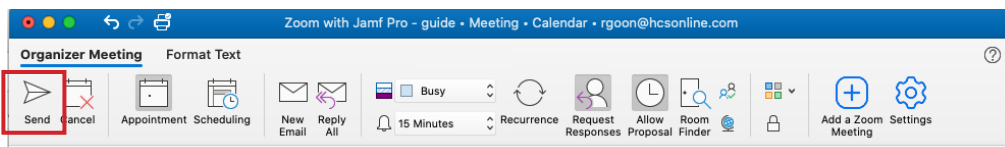
31. Optional - Configure Advanced meeting options.



31. Click Update.



32. In the toolbar, click Send.





33. Confirm that the recipient received the invitation message.

**HCS Happy Hour**

**Keith Mitnick <kmitnick@hcstechgroup.com>**  
 To: Craig Cohen  
 Wednesday, April 29, 2020 at 2:20 PM

**Wednesday, April 29, 2020 at 3:00 PM - 4:00 PM in (UTC-05:00) Eastern Time (HCS Bohemia Office; <https://us02web.zoom.us/j/88148327130?pwd=ckdoN2xV>)**

---

Keith Mitnick is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting  
<https://us02web.zoom.us/j/88148327130?pwd=ckdoN2xWWDGRKytFUDY3U0FDS2xzdz09>

Meeting ID: 881 4832 7130  
 Password: 329246  
 One tap mobile  
 +19292056099,,88148327130# US (New York)  
 +13017158592,,88148327130# US (Germantown)

Dial by your location  
 +1 929 205 6099 US (New York)  
 +1 301 715 8592 US (Germantown)  
 +1 312 626 6799 US (Chicago)  
 +1 253 215 8782 US (Tacoma)  
 +1 346 248 7799 US (Houston)  
 +1 669 900 6833 US (San Jose)  
 Meeting ID: 881 4832 7130  
 Find your local number: <https://us02web.zoom.us/u/kf4B6Y0vo>

34. Confirm that you received an email from Microsoft letting you know the Zoom for Outlook Add-in is now ready for use. It may take a few hours to receive this email.

Microsoft

**Congratulations! Zoom for Outlook has been successfully deployed.**

Hello Keith,  
**Zoom for Outlook** is now ready for use.

See instructions below to help you launch your new add-in in Outlook.

**Zoom for Outlook**  
 Add a Zoom meeting to any Outlook calendar event.

Find your add-in under **Home tab > Get Add-ins > Admin-managed > Zoom for Outlook**



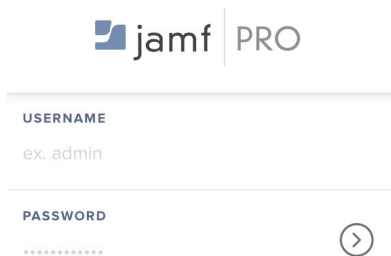
## Section 6: Optional: Prepare Jamf Pro to integrate with AutoPkgr

In this section you'll prepare Jamf Pro to integrate with AutoPkgr with the following tasks:

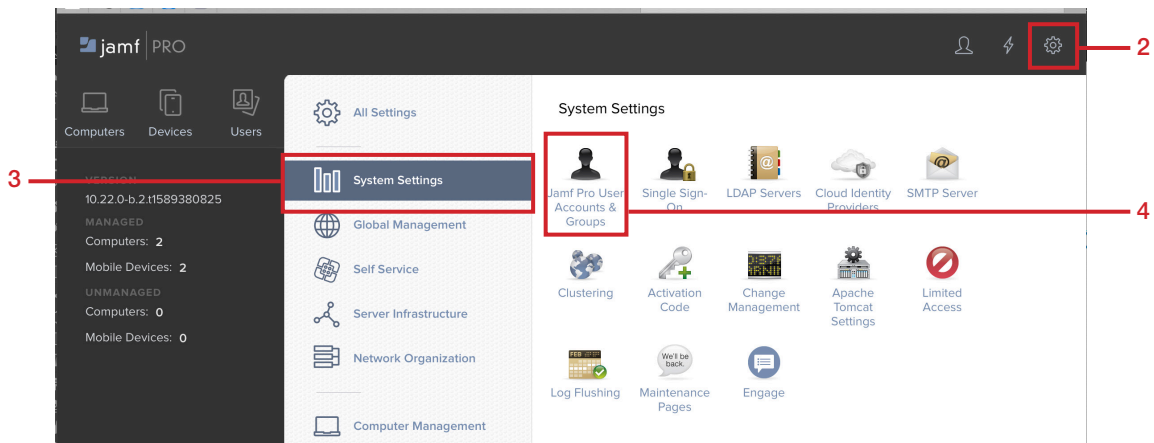
- create a Jamf Pro user with application programming interface (API) access that the AutoPkgr app will use to update Jamf Pro.
- create a new Jamf Pro category called "Testing" that AutoPkgr is automatically configured to use.
- create a new Jamf Pro Static Computer Group called "Testing" that AutoPkgr is automatically configured to use.

If you already have a Category or Smart Computer Group or Static Computer Group named Testing that you use for other purposes, consider renaming you existing Category and groups so that Testing is used only for integration with AutoPkgr.

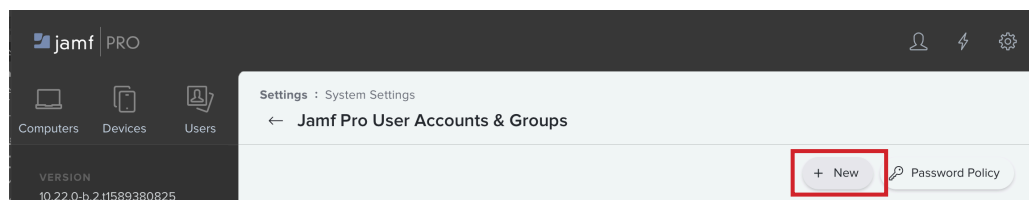
1. If necessary, log in to Jamf Pro.



2. In the upper-right corner, click Settings.
3. Click System Settings.
4. Click Jamf Pro User Accounts & Groups.



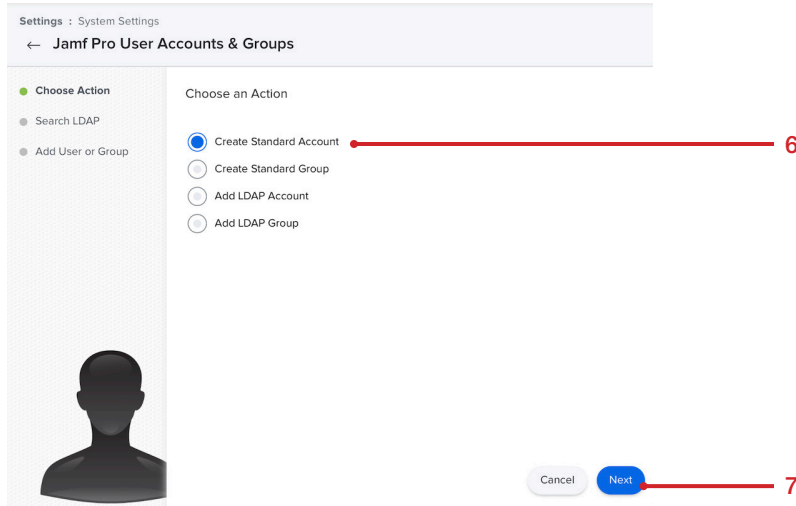
5. Click New.





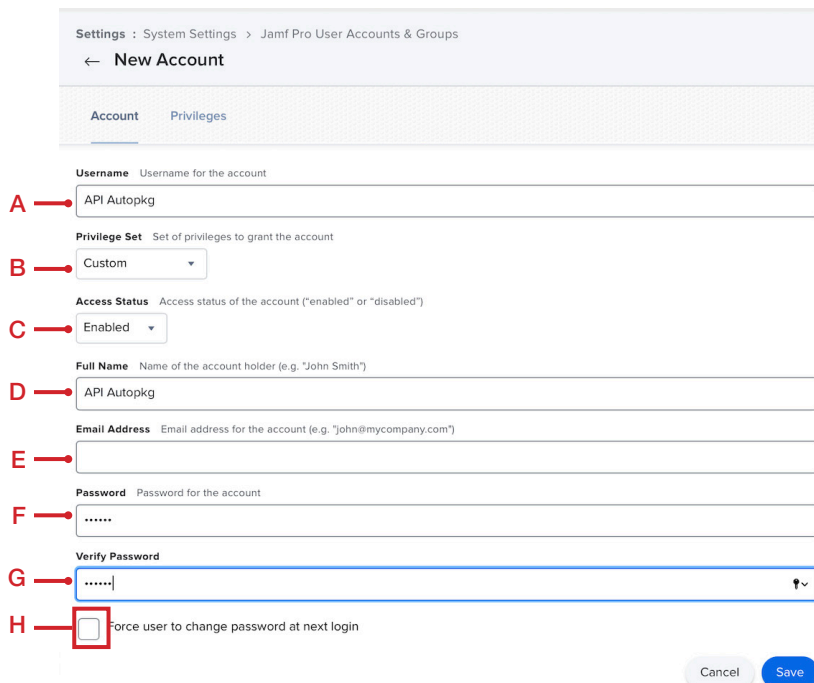
6. Select Create Standard Account.

7. Click Next.



8. Configure the following settings:

- A. Username: **API Autopkg**
- B. Privilege Set: Custom
- C. Access Status: Enabled
- D. Full Name: **API Autopkg**
- E. Email Address: Leave blank
- F. Password: Enter a password of your choice (we recommend that your organization uses a password management solution that allows you to generate secure passwords).g
- G. Verify Password: Enter the new password again
- H. Force user to change password at next login: Leave the checkbox deselected





9. Click Privileges.
10. Click Jamf Pro Server Objects.
11. Next to Categories, select the checkbox for each of the following columns:
  - Create
  - Read
  - Update
12. Next to Computer Extension Attributes, select the checkbox for each of the following columns:
  - Create
  - Read
  - Update

Settings : System Settings > Jamf Pro User Accounts & Groups

← API Autopkg

Account Privileges

Jamf Pro Server Objects  
Create, Read, Update and Delete

	CREATE	READ	UPDATE	DELETE
	All	All	All	All
Advanced Computer Searches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Mobile Device Searches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced User Searches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Volume Purchasing Content Searches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AirPlay Permissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allowed File Extensions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
API Integrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Attachment Assignments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automated Device Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Buildings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Categories	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Classes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer Enrollment Invitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer Extension Attributes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Computer PreStage Enrollments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cancel Save

13. Next to File Share Distribution, select the checkbox for Read.
14. For each of the following, select the checkbox for Create, for Read, and for Update:
  - Packages
  - Policies
  - Scripts
  - Smart Computer Groups
  - Static Computer Groups
15. Confirm that the checkbox for Delete is deselected for all rows.



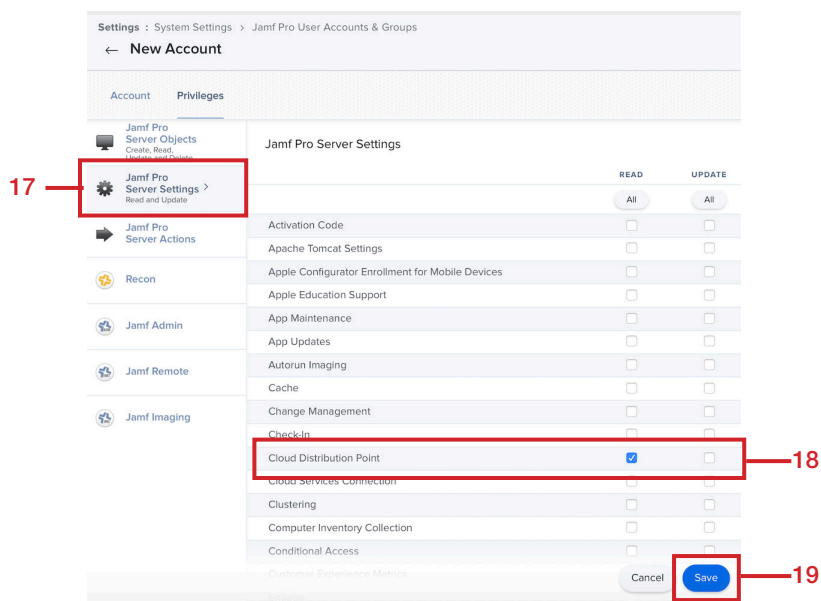
16. Use the following table to confirm that you've granted the appropriate permissions for the API Autopkg account in the Jamf Pro Server Objects section:

	CREATE	READ	UPDATE
Catergeries	√	√	√
Computer Extension Attributes	√	√	√
File Share Distribution Points		√	
Packages	√	√	√
Policies	√	√	√
Scripts	√	√	√
Smart Computer Groups	√	√	√
Static Computer Groups	√	√	√

17. Click Jamf Pro Server Settings.

18. Next to Cloud Distribution Point, select the checkbox for Read.

19. Click Save.

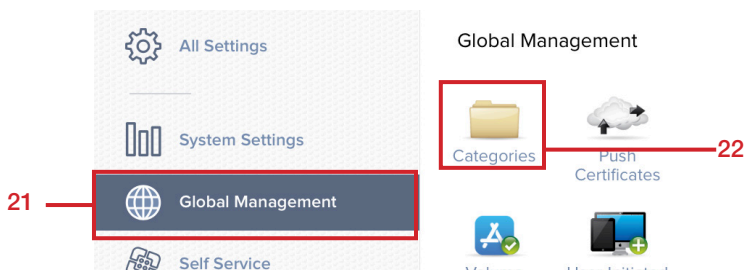


20. In the upper-right corner, click Settings (looks like a gear).



21. Click Global Management.

22. Click Categories.



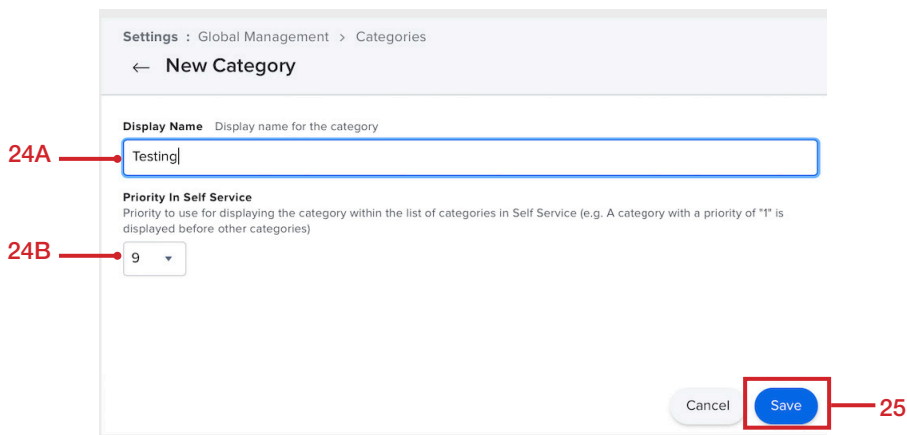




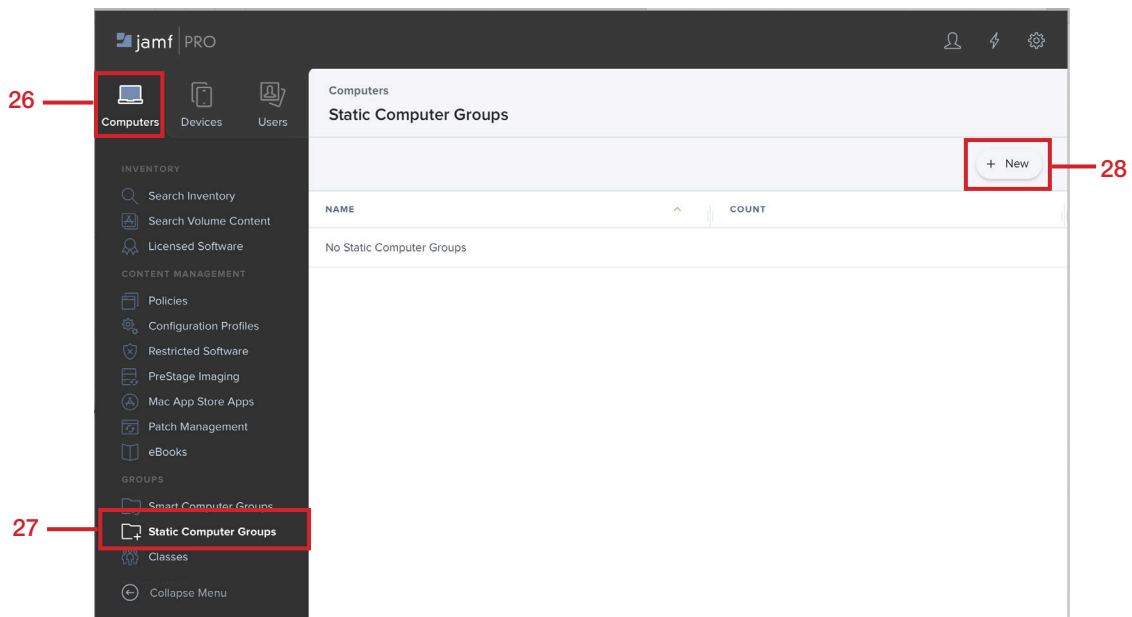
23. Click New



- 24. Configure the following settings:
  - A. Display Name: enter **Testing**
  - B. Priority in Self Service: set to 9.
- 25. Click Save.



- 26. In the upper-left corner, click Computers.
- 27. Click Static Computer Groups.
- 28. Click New.





29. In the Display Name field, enter **Testing**.

Computers : Static Computer Groups  
 ← **New Static Computer Group**

Computer Group    Assignments

**Display Name** Display name for the static computer group

Testing

30. Select the checkbox for each computer that you want to be in the group. This guide uses only "Keith's Mac mini" as a member of the group.

31. Click Save.

Computers : Static Computer Groups  
 ← **New Static Computer Group**

Computer Group    Assignments

Filter Re    1 - 4 of 4

	NAME	IP	ENROLLED VIA DEP	COMPUTER NAME
<input type="checkbox"/>	Keith MBA	24.44.131.46	YES	Keith MBA
<input checked="" type="checkbox"/>	Keith's Mac mini	24.44.131.46	YES	Keith's Mac mini
<input type="checkbox"/>	Lisa's MacBook Pro	24.44.128.71	NO	Lisa's MacBook Pro
<input type="checkbox"/>	MacBook Air VM	24.44.131.46	YES	MacBook Air VM

1    Show: 100    Cancel    **Save**

32. Click Back.

Computers : Static Computer Groups  
 ← **Testing**



## Section 7: Install and Configure Autopkgr to Keep Zoom up to Date

In this section, you'll use the AutoPkgr app to run an AutoPkg recipe named `com.github.jss-recipes.jss.Zoom` that performs the following tasks:

- Download the latest Zoom installer for IT
- Rename the package to include the version number
- Upload the package to your Jamf Pro distribution point
- Create or update an Extension Attribute to gather the Zoom version info from computers that have Zoom installed (remember that after you create a new Extension Attribute in Jamf Pro, it will be empty for each enrolled computer until that computer runs inventory)
- Create or update a smart group for computers that have Zoom, but do not have the latest version, and are in the Static Group named Testing
- Create or update a Self Service policy to install the latest Zoom package, available to computers in the smart group, then update inventory

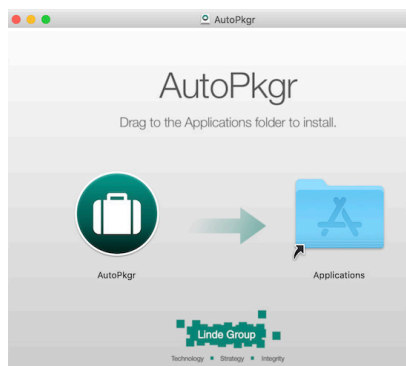
You'll create what's called an override for the `com.github.jss-recipes.jss.Zoom` recipe. Recipes are created by members of the Mac administrator community. In order to verify changes to recipes, AutoPkg requires that you create an "override" for the recipes you use. This establishes trust with the original parent recipe. If the parent recipe was to change in the future, your recipe would stop running until you had a chance to verify that the changes don't break anything in your workflow. It's a little more work for you in Terminal, but it's worth it to prevent you from inadvertently and automatically running recipes that have been maliciously modified.

You'll also use Terminal to perform the following tasks:

- add the Zoom logo to the recipes override folder
- copy the template to create a smart group in Jamf Pro
- copy the template to create a policy in Jamf Pro
- list all the files in the RecipeOverrides folder

After you run the recipe, you'll use Jamf Pro to confirm that the recipe ran successfully. Running the policy from Self Service on a test Mac is outside the scope of this guide.

1. If necessary, download AutoPkgr here: <https://github.com/lindegroup/autopkgr/releases/>. Install AutoPkgr by opening the disk image file (dmg) and dragging AutoPkgr to the Applications folder.



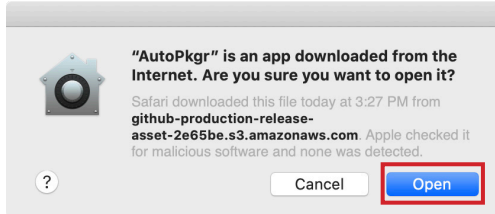
2. Open AutoPkgr located in the Applications folder.



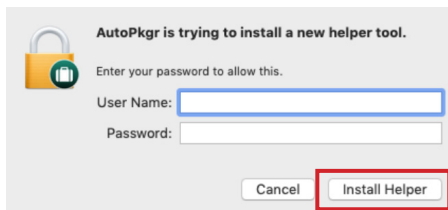
AutoPkgr



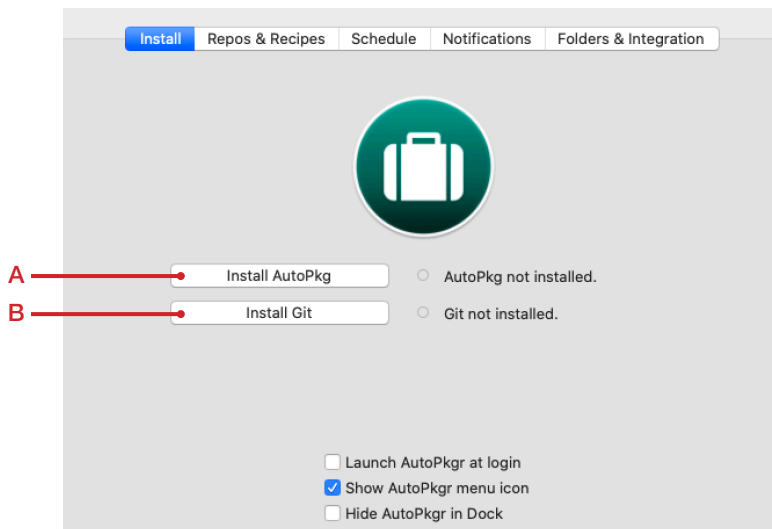
- In the dialog about the app being downloaded from the Internet, "Are you sure you want to open it?", click Open.



- In the "AutoPkgr is trying to install a new helper tool" window, Enter the User Name and Password for an administrator account.
- Click Install Helper.

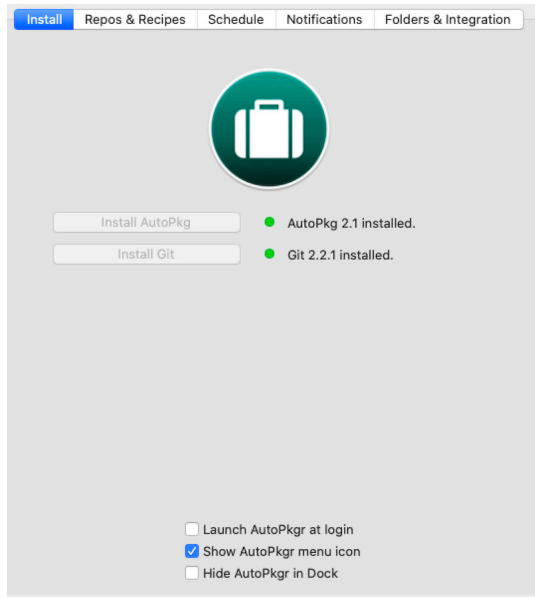


- At the "'AutoPkgr' Notifications" alert, click Allow.
- Follow these steps:
  - Click Install AutoPkgr. Enter your admin credentials when prompted.
  - Click Install Git. Enter your admin credentials when prompted.

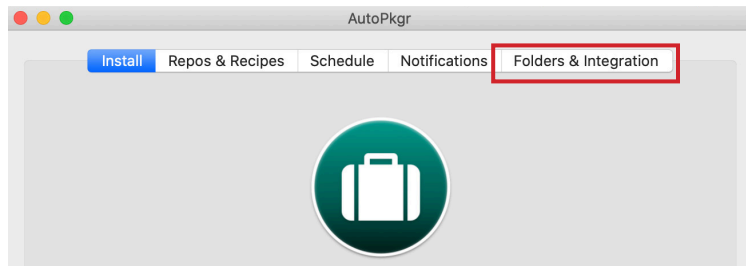




5. Once installed, confirm that each item displays a green status indicator and that it is installed.

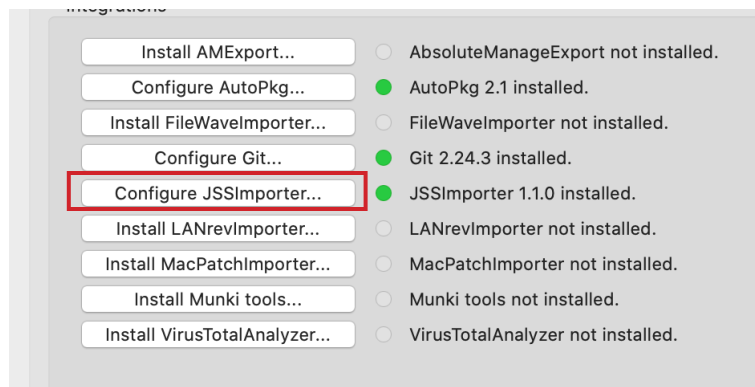


6. Click the Folders & Integration tab.



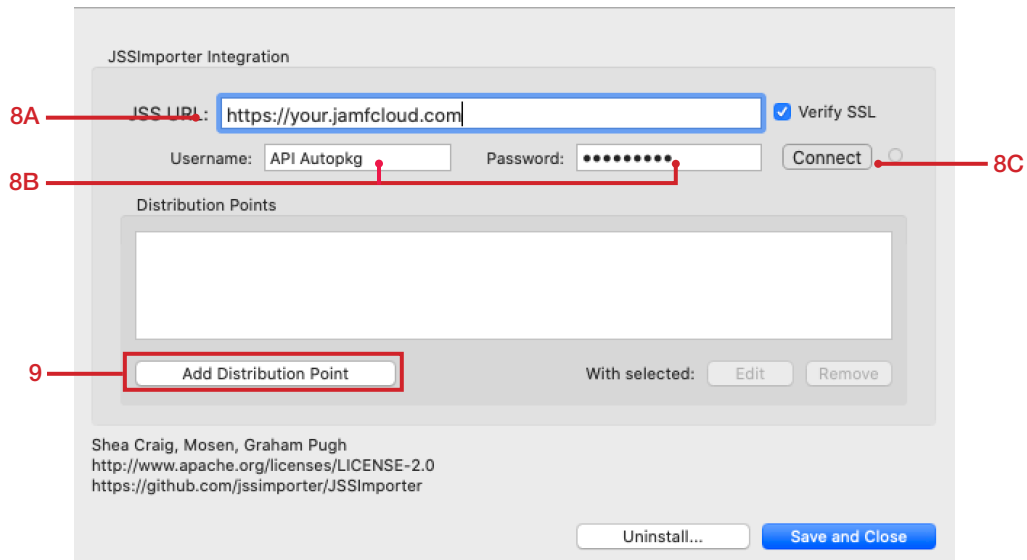
7. Click Install JSSImporter then provide your administrator credentials and click OK.

8. Click Configure JSSImporter.

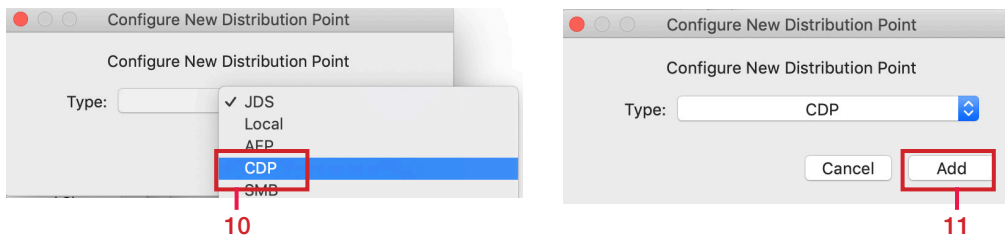




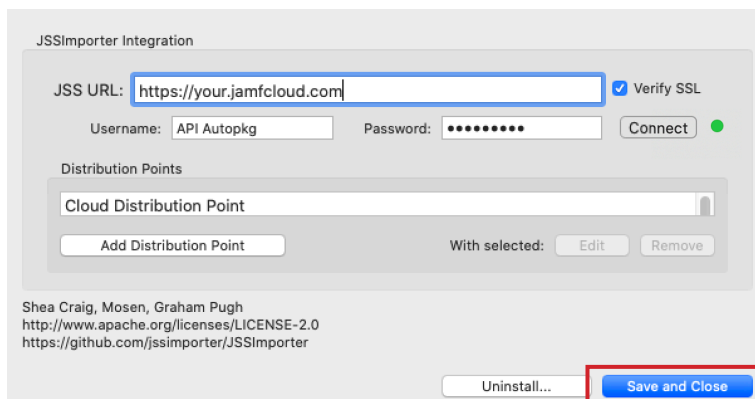
- 8. Follow these steps:
  - A. Enter the URL of your Jamf Cloud server.
  - B. Enter your Jamf API User credentials. (You created this user in section 6)
  - C. Click Connect.
- 9. Click Add Distribution Point.



- 10. Click the Type menu and choose CDP (which stands for Cloud Distribution Point).
- 11. Click Add.

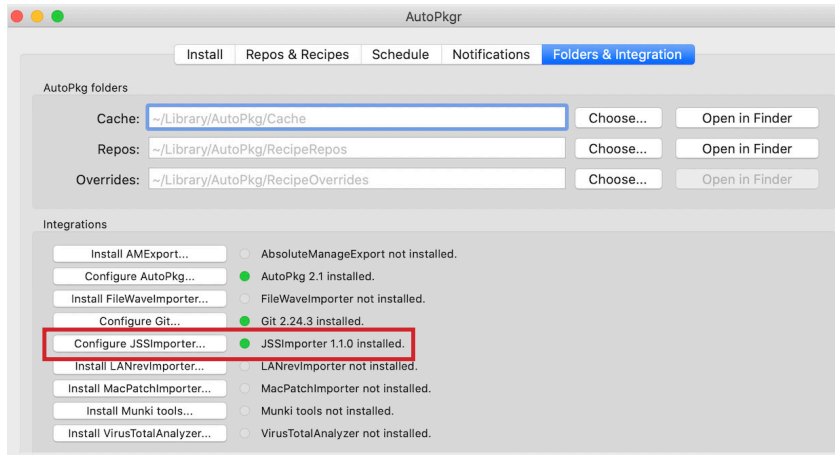


- 12. Click Save and Close.





13. Confirm that AutoPkg displays a green status indicator next to Configure JSS Importer.



14. Click Repos & Recipes (Repo is an abbreviation of repository).

15. In the top portion of the main window, the Repo section, confirm that the checkbox is already selected for <https://github.com/autopkg/jss-recipes.git>.

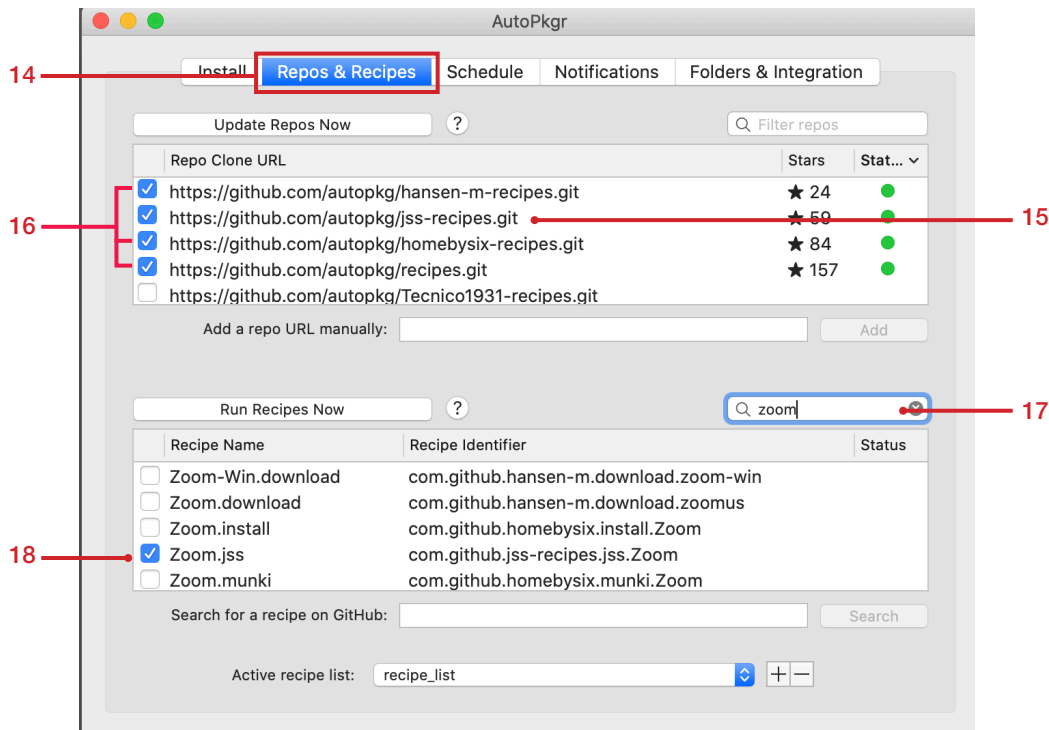
16. Select the checkbox for each of the following additional Repo Clone URLs:

- <https://github.com/autopkg/recipes.git>
- <https://github.com/autopkg/homebysix-recipes.git>
- <https://github.com/autopkg/hansen-m-recipes.git>

NOTE: To help you find each repo URL, you can enter part of the repo name in the "Filter repos" search field.

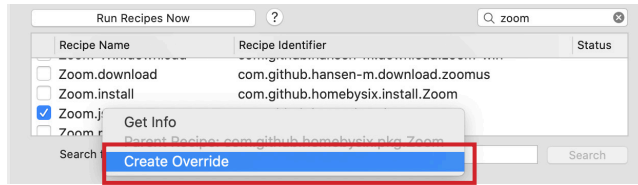
17. In the "Filter recipes" field, enter **zoom**.

18. Select the checkbox for the Zoom.jss recipe.





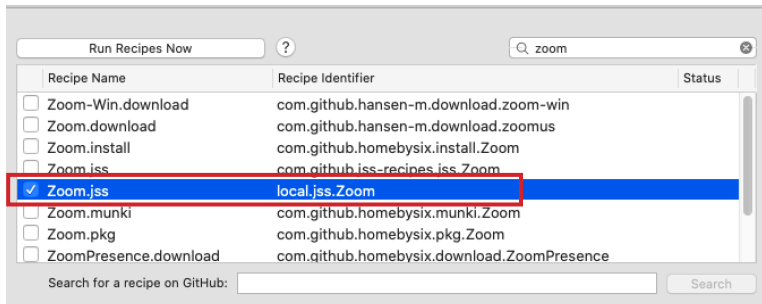
19. Control-click the Zoom.jss recipe and choose Create Override.



20. Click OK.



21. Confirm that the Zoom.jss recipe identifier is renamed to local.jss.Zoom. Leave this open, you'll come back to it in a later step.



22. Open Terminal.app.

23. Highlight the following three commands from this guide then press Command-C to copy the text to the Clipboard.

NOTE: This guide displays the commands in a small typeface so that each command fits on a single line.

```
cp ~/Library/AutoPkg/RecipeRepos/com.github.autopkg.jss-recipes/Zoom/Zoom.png
~/Library/AutoPkg/RecipeOverrides
```

```
cp ~/Library/AutoPkg/RecipeRepos/com.github.autopkg.jss-recipes/
CFBundleVersionSmartGroupTemplate.xml ~/Library/AutoPkg/RecipeOverrides
```

```
cp ~/Library/AutoPkg/RecipeRepos/com.github.autopkg.jss-recipes/PolicyTemplate.
xml ~/Library/AutoPkg/RecipeOverrides
```

24. In Terminal, press Command-V to paste the contents of the Clipboard, then press Return.

25. Confirm that Terminal doesn't return any error messages from the commands you just ran.

26. Run the following command to confirm that four files are in the RecipeOverrides folder. Confirm the names of the returned files match the names of the files in the following figure:

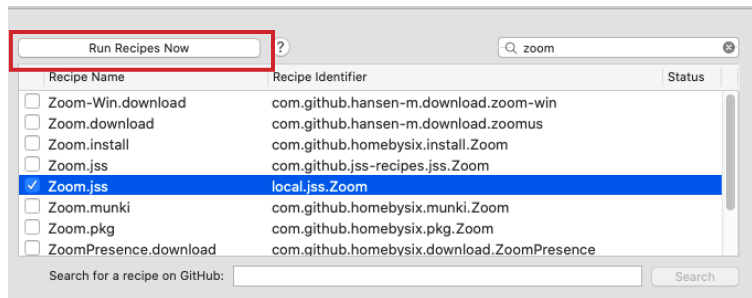
```
ls -alh ~/Library/AutoPkg/RecipeOverrides
```

```
drwxr-xr-x  6 keith  staff   192B May 27 23:27 .
drwxr-xr-x  5 keith  staff   160B May 27 23:09 ..
-rw-r--r--  1 keith  staff   816B May 27 23:25 CFBundleVersionSmartGroupTemplate.xml
-rw-r--r--  1 keith  staff   830B May 27 23:27 PolicyTemplate.xml
-rw-r--r--  1 keith  staff   2.7K May 27 22:06 Zoom.jss.recipe
-rw-r--r--  1 keith  staff  114K May 27 23:13 Zoom.png
```



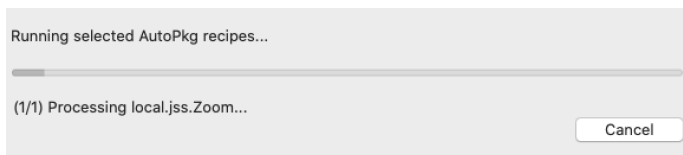


27. In AutoPkg, select the Zoom.jss recipe, then click Run Recipes Now.

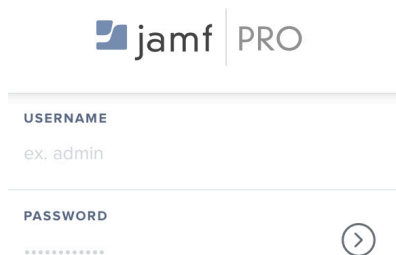


28. Confirm that AutoPkg runs the Zoom.jss recipe.

29. Quit AutoPkg when done.



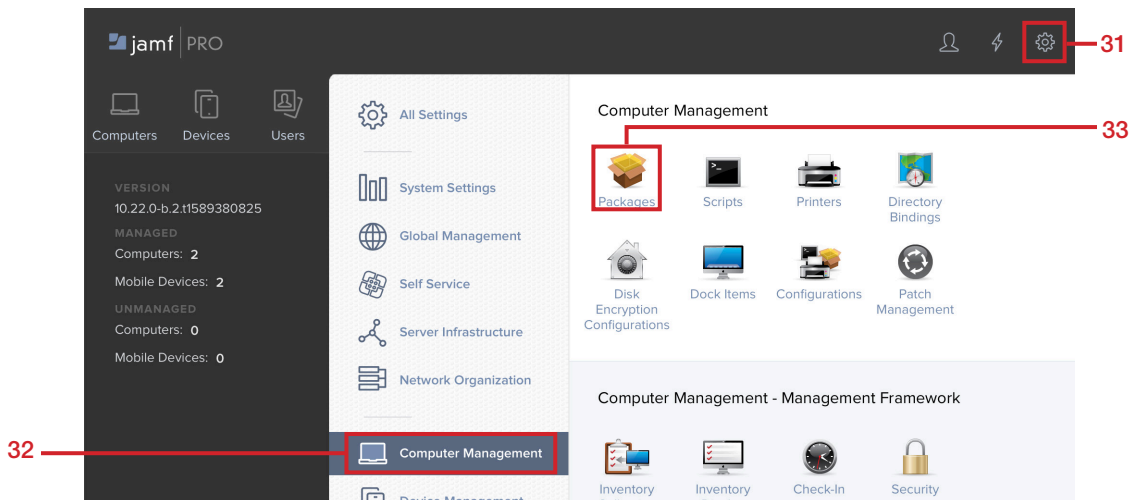
30. If necessary, log in to Jamf Pro.



31. In the upper-right corner, click Settings.

32. Click Computer Management.

33. Click Packages.



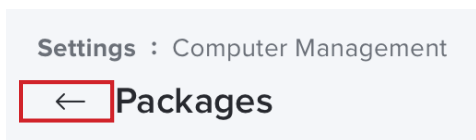


34. Confirm that Jamf Pro displays a package for zoom.

Settings : Computer Management  
← Packages

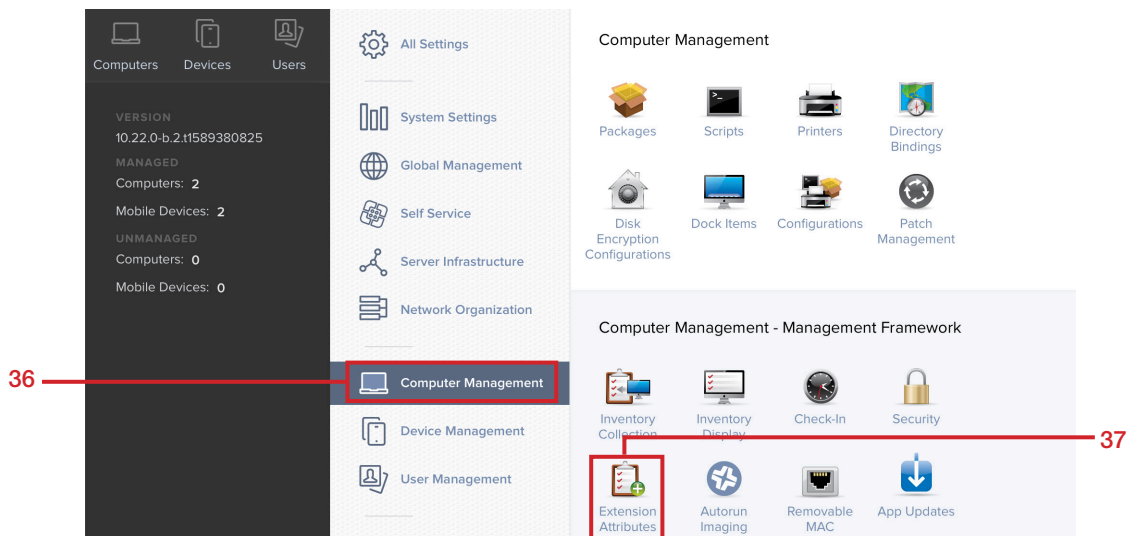
NAME	CATEGORY	PRIORITY	FUT
zoom.us-5.0.26223.0603.pkg	Productivity	10	No

35. Click Back.



36. Click Computer Management

37. Click Extension Attributes.



38. Confirm there is an Extension Attribute named zoom.us.Version.

Settings : Computer Management  
← Extension Attributes

+ New + New From Template Upload

NAME
zoom.us Version



39. Click Computers.

40. Click Smart Computer Groups.

41. Confirm there is a smart group named zoom.us-update-smart.

NAME	COUNT
All Managed Clients	2
All Managed Servers	0
zoom.us-update-smart	0

42. Click Policies.

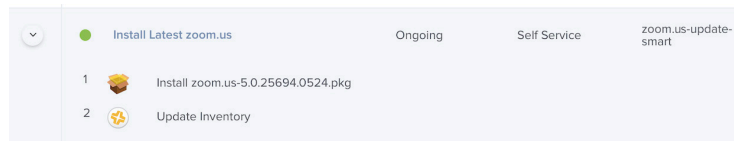
NAME	FREQUENCY	TRIGGER	SCOPE
macOS Applications			
Install chrome	Once per computer	Check-in	1 computer
Install Zoom	Once per computer	InstallZoom	No scope defined
No category assigned			
Update Inventory	Once every week	Check-in	All computers
Testing			
Install Latest zoom.us	Ongoing	Self Service	zoom.us-update-smart



36. Confirm the following:

- A policy named Install Latest zoom.us was created.
- The frequency is set to Ongoing.
- The trigger is set to Self Service.
- The scope is set to the “zoom.us-update-smart” smart group.

NOTE: If you don't want to use Self Service as the scope, you can change the scope to fit your needs.



The next time you run the Zoom.jss recipe in AutoPkgr, if there was an updated version of Zoom, the policy will contain the latest version. Other features of AutoPkgr, such as setting a schedule to check for updates on a schedule that fits your needs, or sending notifications about new versions to an email address or to a Slack channel, are outside the scope of this guide.

This completes the guide.

If you'd like help implementing the solution in this white paper, we are ready to help; contact us at [info@hcsonline.com](mailto:info@hcsonline.com) or (866) 518-9672.

If you have corrections please send them to [info@hcsonline.com](mailto:info@hcsonline.com).

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