



 **SUITE TO OFFICE 365**
MIGRATION PLAYBOOK

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Introduction

This is a complete step-by-step guide for migrating from G Suite to Office 365 using BitTitan's migrationwiz. Mail, Calendar, and Contact items can be migrated over in the migration. Be aware, the following **cannot be migrated** over using this tool:

- Calendar Attachments
- Calendar Reminders
- Some calendar colors
- Tasks
- Chats and chat history
- **Google Groups for Business**, including forums and collaborative inboxes
- Google Categories (i.e., the Google category flags: Social, Promotions, Updates, Forums)
- Can only migrate items that are visible through IMAP
- Email attachments that are links to Google Drive

Planning Phase 1: Gather All the Necessary Credentials

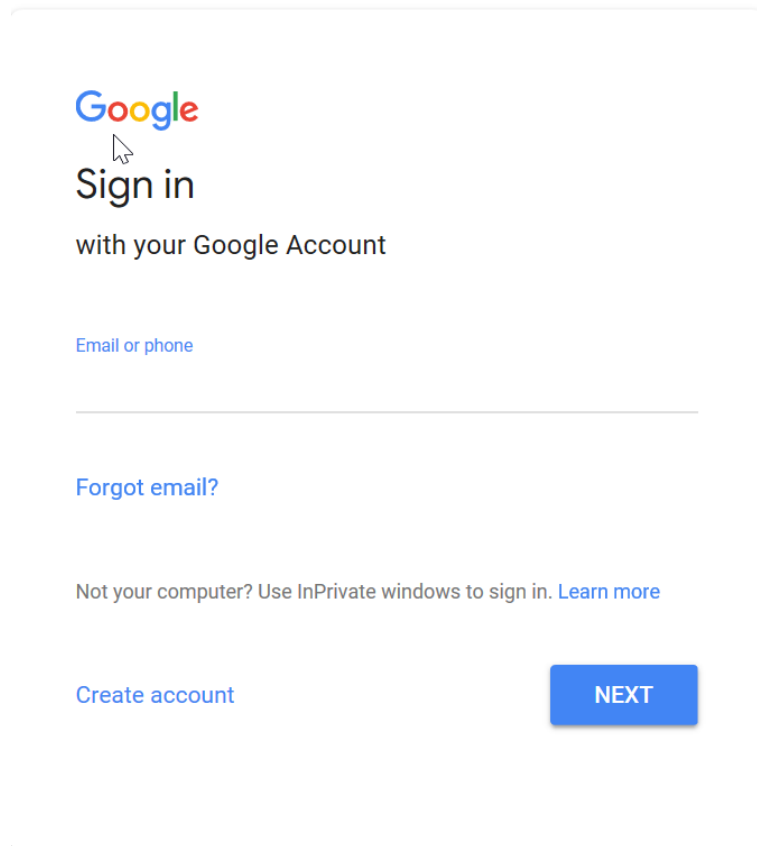
1. Credentials Checklist
 - a. Office 365 Global Admin Credentials
 - b. G Suite Admin Credentials
 - c. BitTitan credentials
 - d. DNS Login Credentials
 - e. A list of users with Passwords (if not using AD Connect)

Note BitTitan comes with a tool called Deployment Pro which reconfigures Outlook profiles after the migration. This can be pushed out either through GPO or email. If you are going to be pushing this out via GPO you will additionally need:

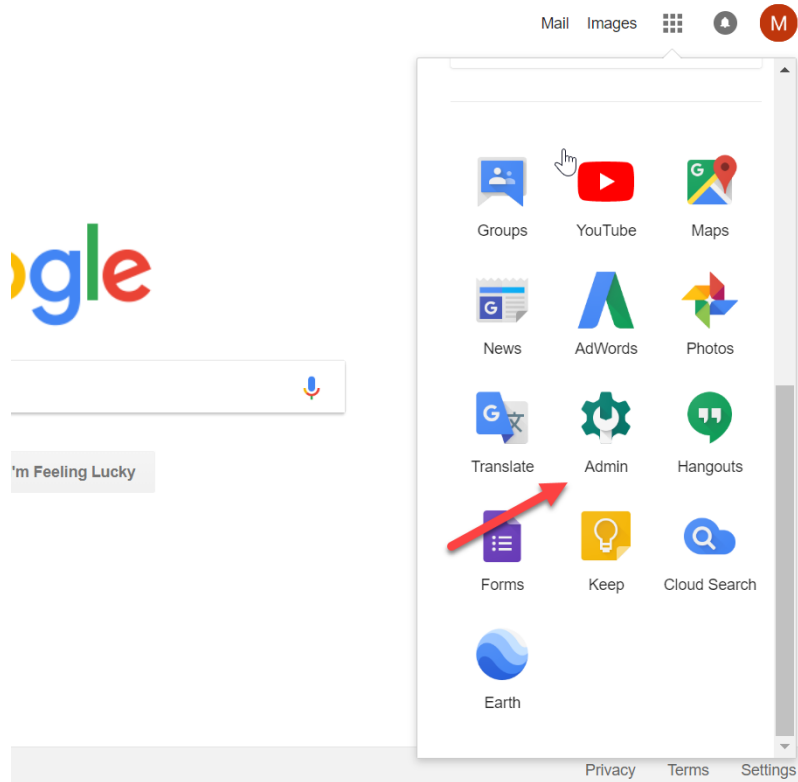
- e. Credentials remote into Primary DC (If applicable)
- f. Enterprise Admin Credentials for Primary DC

Prep Work Phase 1: Prepare G Suite Environment

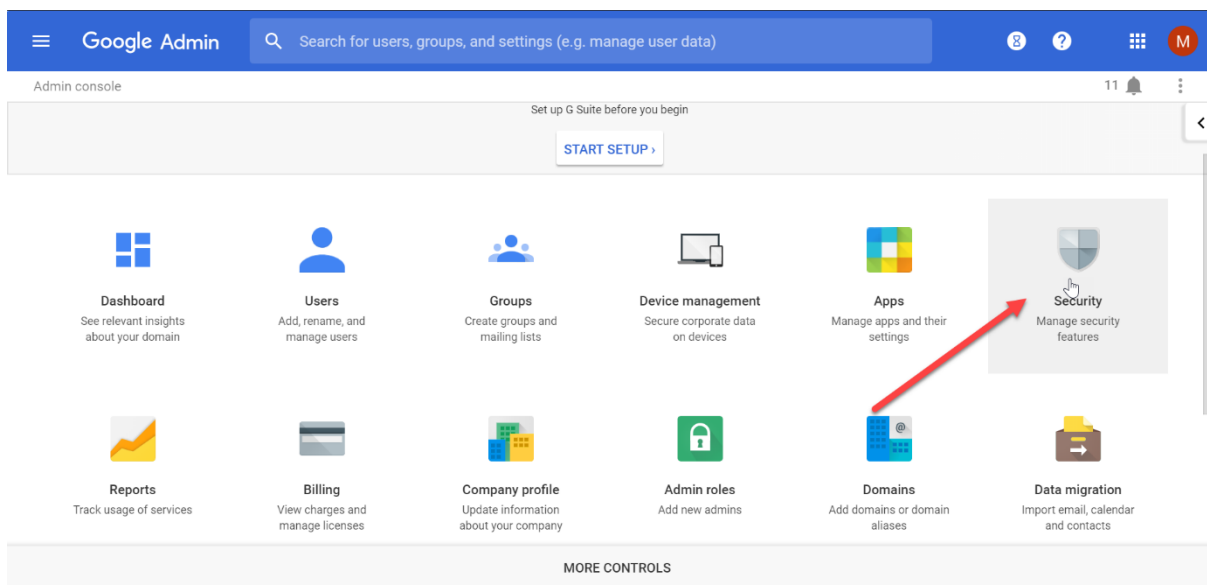
1. The first step we need to take is to grant access to G Suite using OAuth 2.0. First, log in to google using the G Suite Admin Credentials:



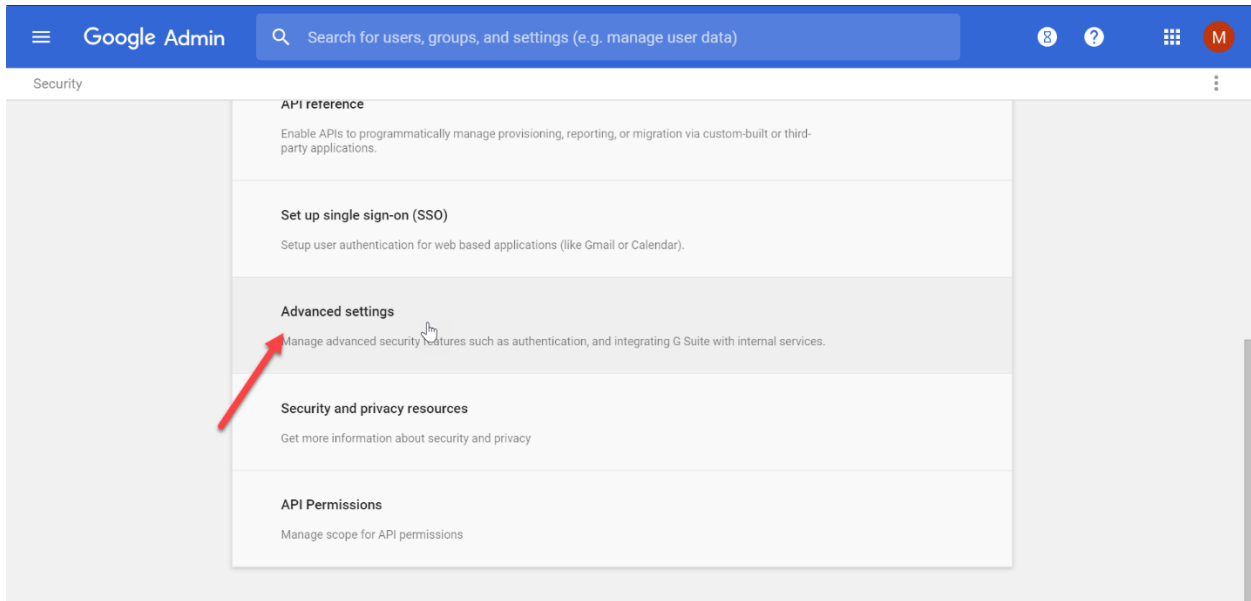
2. After you sign in, click the waffle icon in the top right corner and click on the Admin icon:



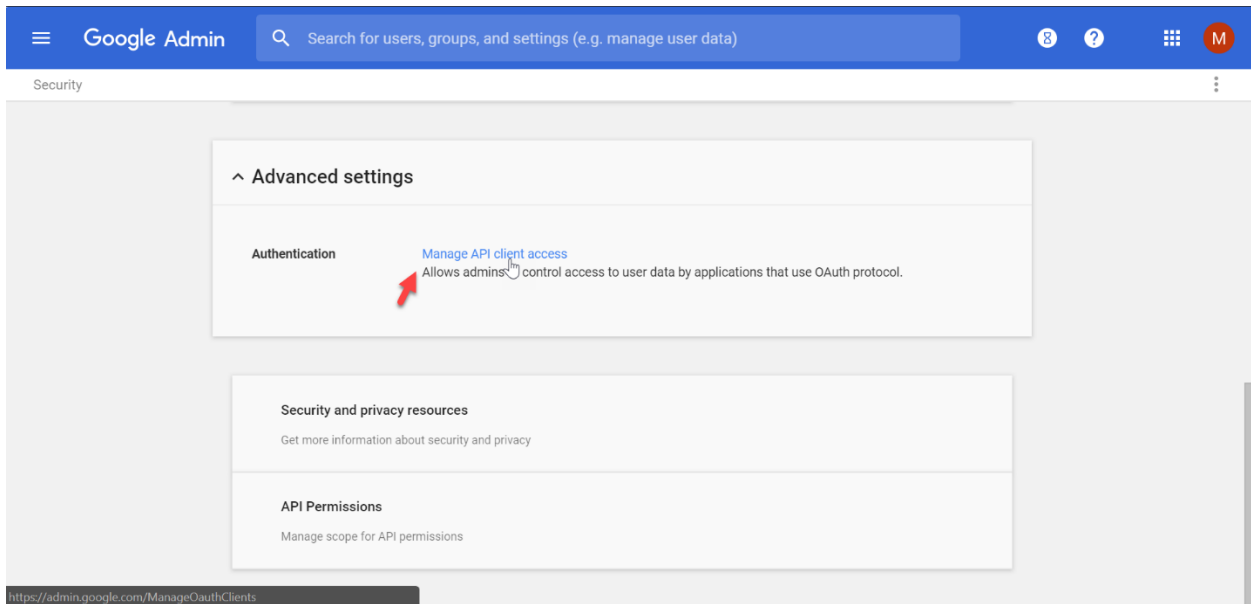
3. Next, go to Security:



4. Scroll Down and Click on Advanced Settings:



5. Next Click "Mange API client access"



- Type "113321175602709078332" into the "Client Name Field" *NOTE* This is granting MigrationWiz admin access to the account

Security

Manage API client access

Developers can register their web applications and other API clients with Google to enable access to data in Google services like Calendar. You can authorize these registered clients to access your user data without your users having to individually give consent or their passwords. [Learn more](#)

Authorized API clients The following API client domains are registered with Google and authorized to access data for your users.

Client Name	One or More API Scopes	Authorize
Example: www.example.com	Example: http://www.google.com/calendar/feeds/ (comma-delimited)	Learn more about registering new API clients

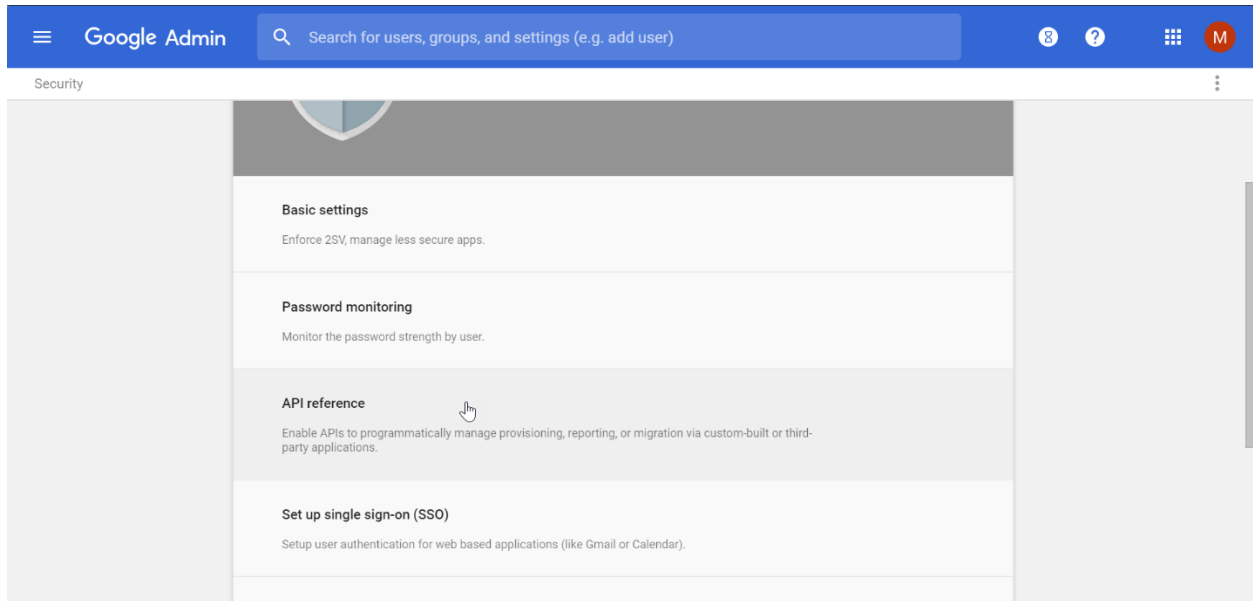
- Enter the following into the "One or More API Scopes" section and then click "Authorize":

https://mail.google.com/, https://www.google.com/m8/feeds,
 https://www.googleapis.com/auth/contacts.readonly,
 https://www.googleapis.com/auth/calendar.readonly,
 https://www.googleapis.com/auth/admin.directory.group.readonly,
 https://www.googleapis.com/auth/admin.directory.user.readonly,
 https://www.googleapis.com/auth/drive, https://sites.google.com/feeds/

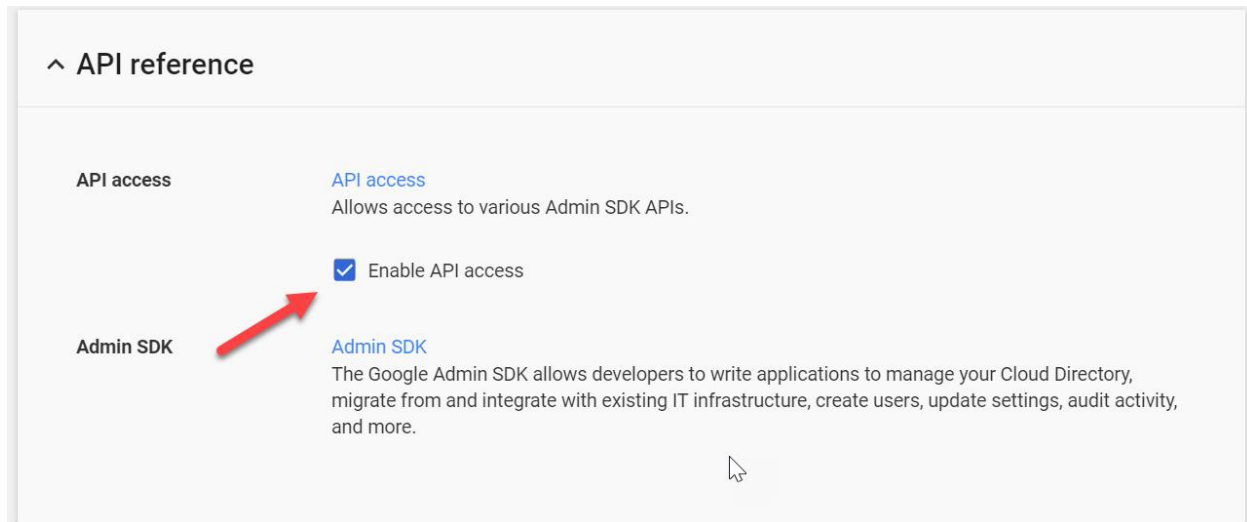
- Next, we will go back to the Security section under Admin:

The screenshot shows the Google Admin console interface. At the top, there is a search bar and navigation icons. Below the search bar, there is a 'Set up G Suite before you begin' banner with a 'START SETUP' button. The main area contains a grid of icons for various administrative functions: Dashboard, Users, Groups, Device management, Apps, Security (highlighted with a red arrow), Reports, Billing, Company profile, Admin roles, Domains, and Data migration. At the bottom, there is a 'MORE CONTROLS' link.

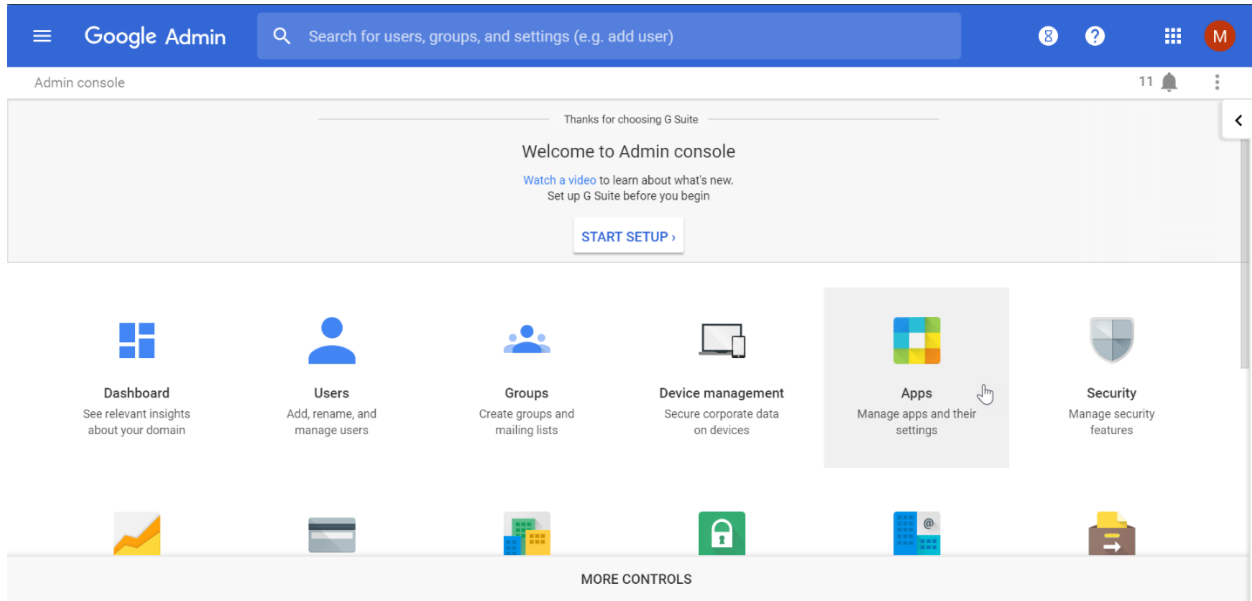
9. Click API reference



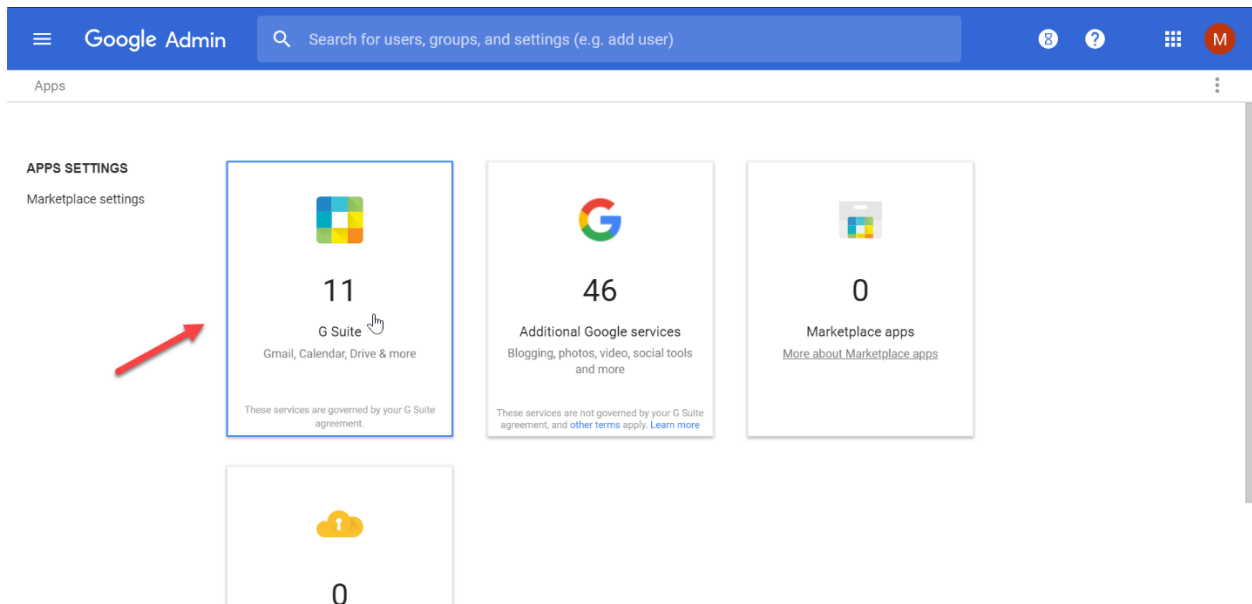
10. Make sure that "Enable API Access" is selected



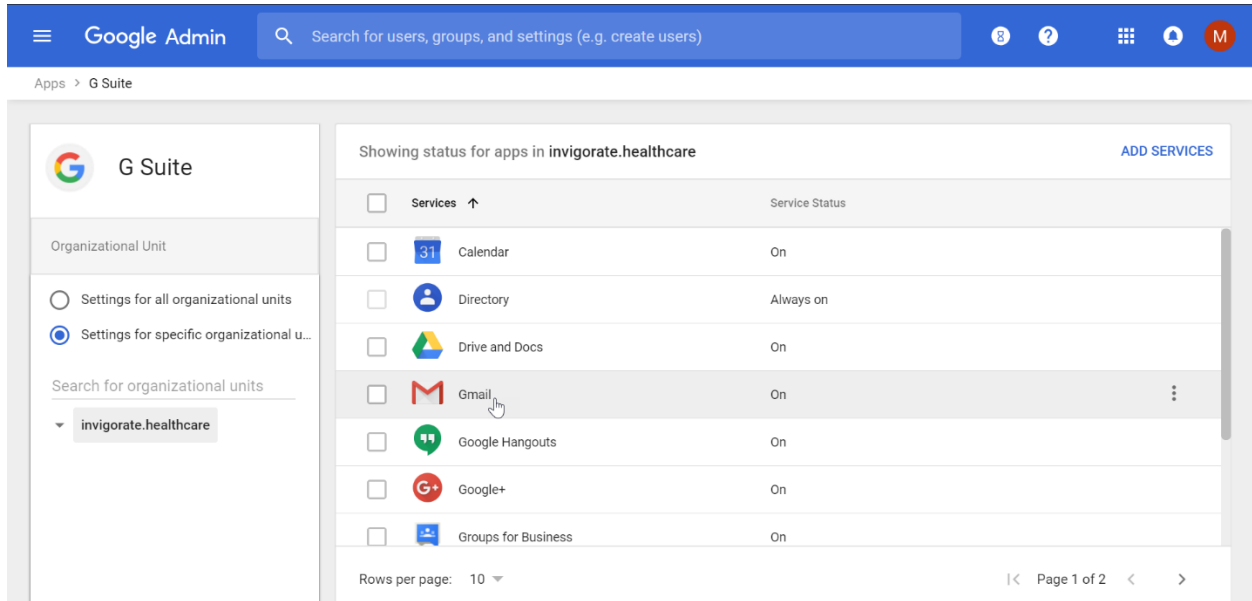
11. Once this is done, we need to make sure that IMAP access is enabled for all users. For this, we will go back to the Admin home page and select the “Apps” icon:



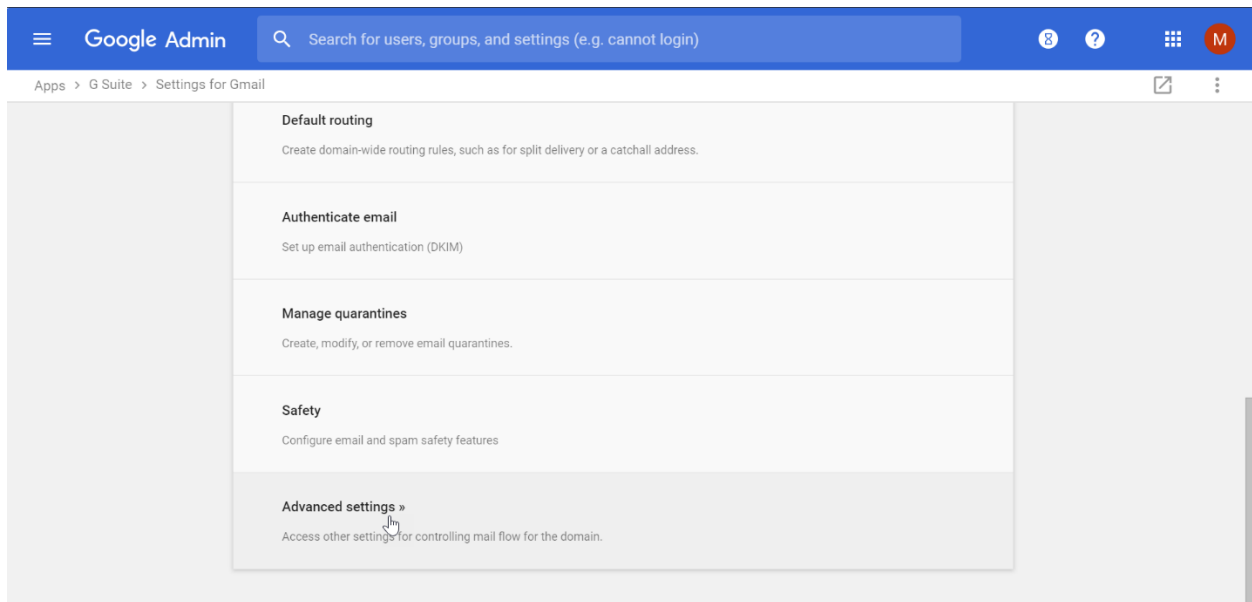
12. Next we will select G Suite:



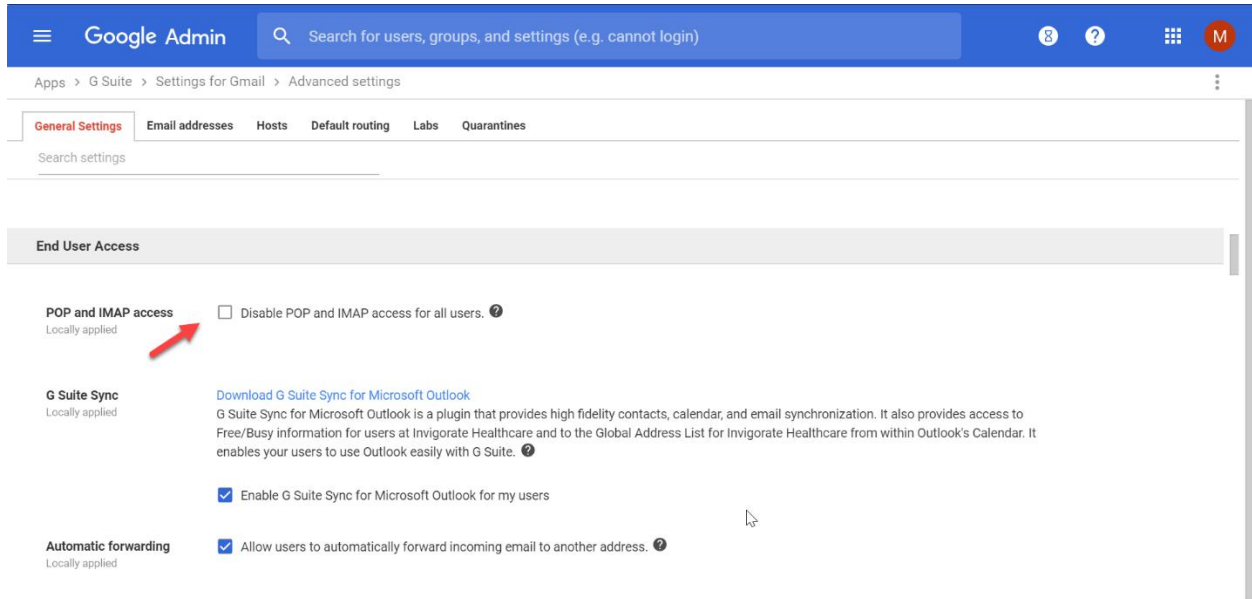
13. Then, we will select Gmail:



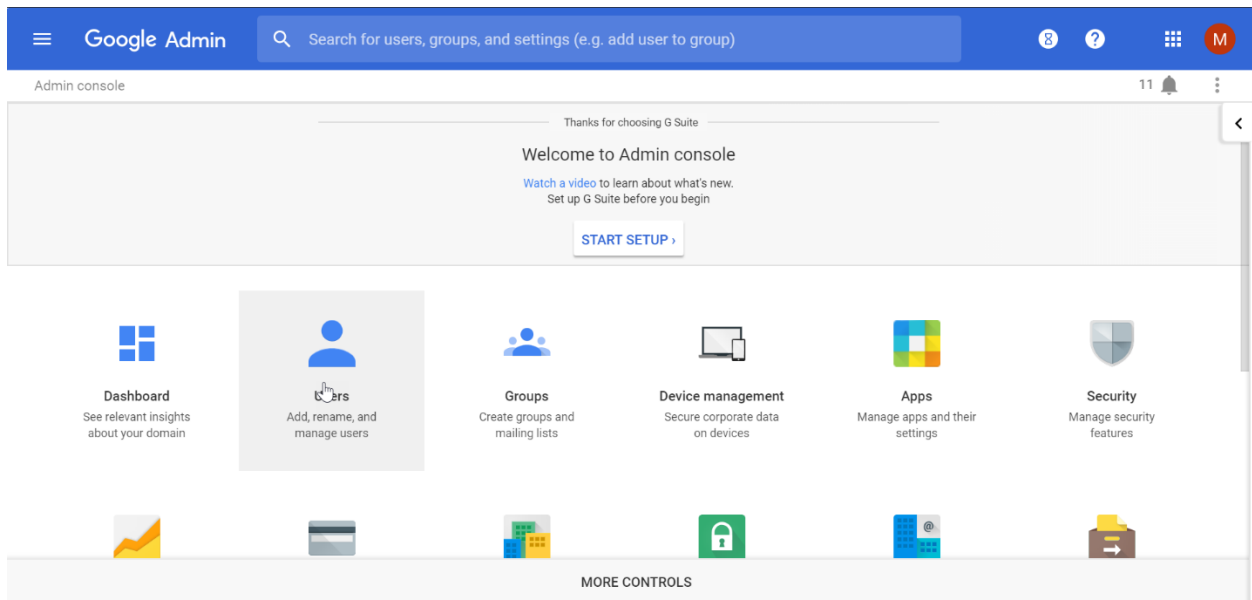
14. Scroll Down to the bottom of the page and select “Advanced Settings”



15. From here, scroll down to the “End User Access” section and make sure the “Disable POP and IMAP access for all users” is **unchecked**



16. Last we will just want to export our userlist into CSV format. We will start back at the Admin Center and then go to the “Users” icon

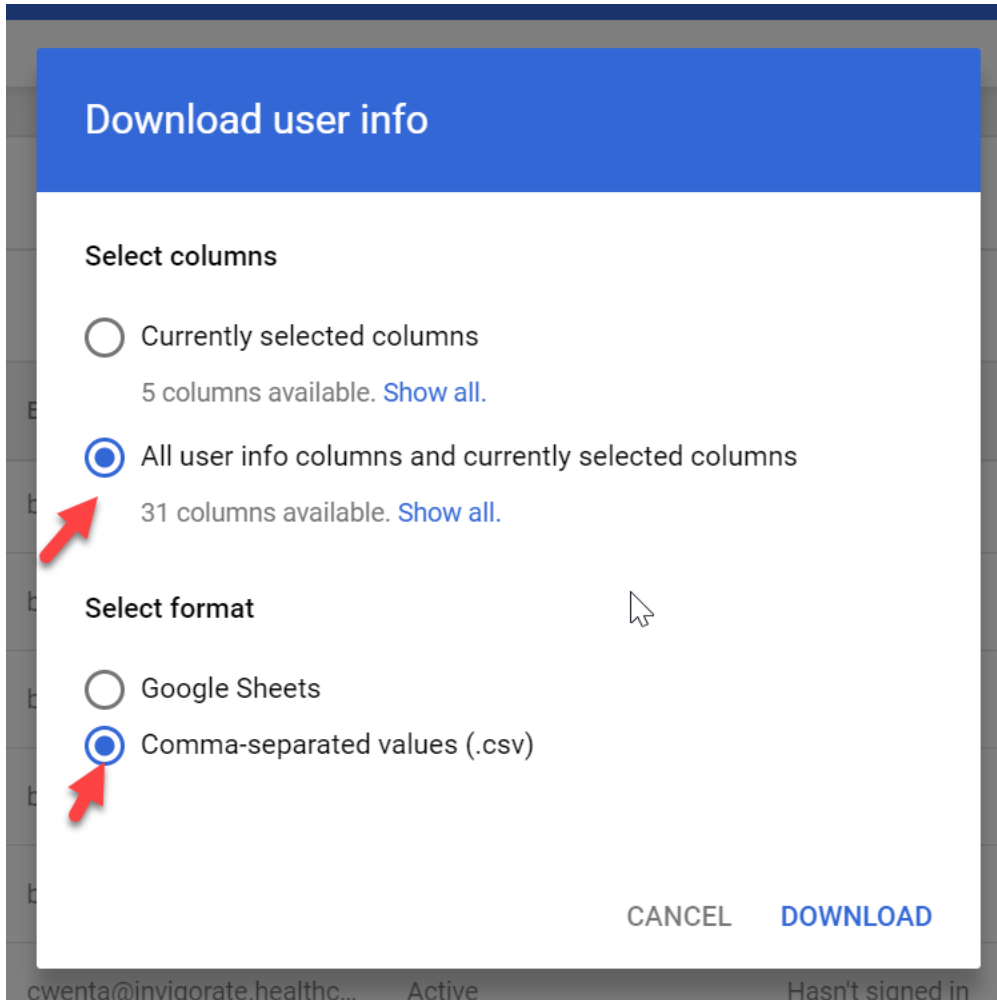


17. In the top right corner, you will see the download icon:

The screenshot shows the Google Admin console interface for the 'Users' section. At the top, there is a blue header with the 'Google Admin' logo, a search bar, and several utility icons. Below the header, the page title is 'Users' and the main content area is titled 'Users | Showing all users'. A yellow plus icon is on the left, and a 'Download users' button with a download icon is in the top right corner, highlighted by a red arrow. Below this is a table with columns for Name, Email, Status, Last sign in, and Email usage. The table contains six rows of user data. At the bottom left, it says 'Rows per page: 50' and at the bottom right, it says 'Page 1 of many'.

<input type="checkbox"/>	Name ↑	Email	Status	Last sign in	Email usage	<input type="checkbox"/>
<input type="checkbox"/>	John Doe	john.doe@company.com	Active	Hasn't signed in	0 GB	
<input type="checkbox"/>	Jane Smith	jane.smith@company.com	Active	1 week ago	0 GB	
<input type="checkbox"/>	Mike Thomas	mike.thomas@company.com	Suspended by admin (1 day)	2 weeks ago	0.36 GB	
<input type="checkbox"/>	Alice White	alice.white@company.com	Active	1 week ago	0.7 GB	
<input type="checkbox"/>	Robert Brown	robert.brown@company.com	Active	2 weeks ago	0.41 GB	
<input type="checkbox"/>	Sam Green	sam.green@company.com	Active	6 days ago	0 GB	

18. Select "All user info columns" and "CSV" for the format:



NOTE You will want to audit this user list to make sure it does not have users not part of the migration. Clean up accordingly.

Prep Work Phase 2: Prepare Office 365

1. Create a net new office365 tenant, tenant will be spun up with the defaulted .onmicrosoft.com domain. This can be spun up direct with Microsoft or purchased through a CSP provider
2. Go to Setup>Domains>Add Domain
3. Verify Domain with TXT record provided
4. Select "I will manage DNS records myself" and checkmark the box "Skip this step" when it ask to place all the remaining DNS settings for you
5. Domain will say "possible service issues". This is ok. We will add the remaining records after we cut over MX Records
6. Add Users Manually, Bulk Upload with a Powershell Script or CSV, or with AD Connect

NOTE At this stage, if you are not using AD Connect, you will **need to decide** if you are collecting all user's passwords to upload into office365 or if you are providing passwords to users.

a. Powershell Script

#Connecting to Exchange Online Account#

```
$credential = Get-Credential

Import-Module MsOnline
Connect-MsolService -Credential $credential

$exchangeSession = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri
"https://outlook.office365.com/powershell-liveid/" -Credential $credential -Authentication
"Basic" -AllowRedirection
Import-PSSession $exchangeSession -DisableNameChecking
```

Create a CSV with the Following Headers:

- UserPrincipalName
- FirstName
- LastName
- DisplayName
- Password

#Bulk Import Users with Passwords#

```
Import-Csv -Path 'FilePath' | foreach {New-MsolUser -UserPrincipalName
$_.UserPrincipalName -FirstName $_.FirstName -LastName $_.LastName -DisplayName
$_.DisplayName -Password $_.Password -ForceChangePassword $False}
```

#Add Alias to Users#

```
$LiveCred = Get-Credential
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -Connecti
dential $LiveCred -Authentication Basic -AllowRedirection
Import-PSSession $Session
$users = Get-Mailbox
foreach ($a in $users) {$a.emailaddresses.Add("$($a.alias)@domain.com")
$users | %{Set-Mailbox $_.Identity -EmailAddresses $_.EmailAddresses}
```

#Add Distribution Lists with Members#

```
Import-Csv -Path 'File Path.csv' | foreach {New-
Distributiongroup -Name $_.Name -PrimarySmtpAddress $_.Address
}

Import-Csv 'File Path.csv' | foreach {Add-
DistributionGroupMember
-Identity $_.DL -Member $_.Alias}
```

b.AD Connect Setup: <https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-get-started-custom>

Prep Work Phase 3: Prepare Source/Destination for BitTitan

1. Change Send/Receive size in office 365 to max of 150m: <https://help.bittitan.com/hc/en-us/articles/115008108047>

Note Make sure you are still connected to exchange online in powershell

#Change Send/Receive Size#

```
Get-Mailbox | Set-Mailbox -MaxReceiveSize 150MB -MaxSendSize 150MB
```


2. Set Impersonation at Destination. This will allow you to use admin creds to impersonate all mailboxes. With this in place you will not need creds for all individual users

#Setting Impersonation#

```
Set-ExecutionPolicy Unrestricted
```

```
$LiveCred = Get-Credential
```

```
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri  
https://ps.outlook.com/powershell/ -Credential $LiveCred -Authentication Basic -  
AllowRedirection
```

```
Import-PSSession $Session
```

```
Enable-OrganizationCustomization
```

```
New-ManagementRoleAssignment -Role "ApplicationImpersonation" -User admin@domain.com
```

Prep Work Phase 4: Push out DMA agent

BitTitan comes with a deployment pro agent that automatically configures outlook profiles. This will bring over **autofill settings** and **signatures** for all users. There are two options to push this out:

- a. GPO
- b. Email

Note If we are deploying the agent via gpo, users will just receive a popup asking them to authenticate and will reopen outlook after cutover. If we are pushing the agent out via email, users will receive a message in which they will have to click on a link to install the agent on their device

1. Login to the BitTitan Portal and Click All Customers on the left-hand column

The screenshot shows the MSPComplete interface. On the left, a navigation sidebar lists various options, with 'All Customers' highlighted. The main area features a welcome message and three instructional cards: '1. Create Runbooks' (with a clipboard icon), '2. Generate Estimates' (with a calculator icon), and '3. Runbook Execution' (with a rocket icon). Each card includes a brief description of the step.

2. Click Add Customer>Fill out Customer Name and primary Domain>Click Save

Add Customer

▼ Customers

Details

Workgroup Name
provisioning Workgroup

@ Primary Email Domain

Company Name

Primary Location (Optional)
Select Country ▼

City (Optional)

Primary Industry (Optional)
Select Industry ▼

Company Size (Optional)
Select Company Size ▼

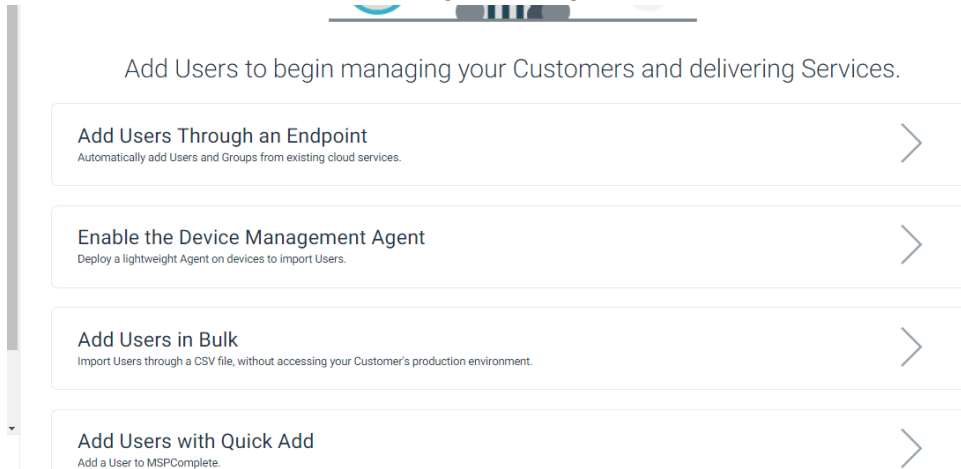
Follow Steps **3-14** if you are choosing to deploy the agent via **GPO**

3. Remote into Primary DC

4. Open Browser and Login to BiTitan.com

5. Go to All Customers>View Users on the Customer you created

6. Click “Enable the Device Management Agent”



7. Follow the steps from the following KB Article which walks you through setting up a new share, placing the exe in the share, creating the gpo, and scheduling it to run
[:https://help.bittitan.com/hc/en-us/articles/115008110847](https://help.bittitan.com/hc/en-us/articles/115008110847)

Add Users with a Device Management Agent

By using the Device Management Agent, you agree to comply with BitTitan's User Agreement.

Device Management

Instructions

Installing with a Group Policy Object (GPO).

1. Save the Device Management Agent setup file (i.e., BitTitanDMASetup_60577C0A954BA572_.exe) to a network share folder.
The folder needs to be accessible for all Users on the network.
2. Create a GPO that executes the DMA setup file on an Active Directory Organizational Unit's computers with an immediate scheduled task.

Script Parameters:

[Copy to Clipboard](#)

```
\\path-to-  
BitTitanDMASetup_60577C0A954BA572_.exe)\BitTitanDMASetup_60577C0A954BA572_.exe
```

8. Monitor users that successfully have the agent installed by going to Customers>Select customers>Manage>Device Management>Deployment pro

You will need to put in the destination domain and add the 365 endpoint

DeploymentPro
Cancel
Save and Continue

What is DeploymentPro, and how does it work?

DeploymentPro is a cloud-based solution that remotely configures and manages Users' Outlook profiles.

- To start using DeploymentPro, launch the Device Management Agent.
- Once installed on Users' devices, set up the module to automate the configuration of all Users' Outlook profiles.

[Launch DeploymentPro for UserActivation to View Legacy Projects](#)

Module Configuration

Destination Domain Name

@ |

The field cannot be left blank.

Select Destination Endpoint

Office365 + ▾

Once users start to login to their computers, their device will be registered and their primary upn will be listed "Primary Email Address" column

Search Customers

Cardinal Transport ▾

Overview

SERVICE MODULES

HealthCheck for Office 365

DeploymentPro

Home > Customers > Cardinal Transport > Device Management > **DeploymentPro**

DeploymentPro

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

125	80	1999058
Total Users	Total Devices	Licenses Owned

[Schedule Cutover](#)

Home > Customers > Cardinal Transport > Device Management > DeploymentPro

DeploymentPro Settings

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

126 Total Users 80 Total Devices 1999059 Licenses Owned

[Schedule Cutover](#) Sort

Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running	Completed	Error
[Redacted]	[Redacted]	Scheduled on Apr 9, 2018 11:30am	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on Apr 7, 2018 12:15pm	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on Apr 7, 2018 9:45am	0	0	0	1	0
[Redacted]	[Redacted]	Not scheduled	5	0	0	0	0
[Redacted]	[Redacted]	Not scheduled	1	0	0	0	0
[Redacted]	[Redacted]	Not scheduled	1	0	0	0	0

9. Users computers will be listed and will have a "heartbeat". Once a user signs into the device their email will be tied to the device in a one to one relationship.

Home > Customers > Cardinal Transport > Device Management > Computers

Services Computers

80 Computers

Computer Name ↓	Number of Users	Agent Status
AR-004	1	✓
ARDEB	1	✓
AS400CONSOLE-PC	1	✓
BILLINGSARAH	1	✓
BROKERAGEJD-CR	1	✓
CRDTAR-DLS	1	?

* If a status shows a ? symbol it most likely means the computer is shut down and the tool hasn't been able to find a heartbeat in over 4 hours*

CRDTAPP	2	✓
CRDT-AR-DLS	1	?

11. Once all users have populated and have the DMA agent installed, Schedule the cutover date for the agent to run on their computer. (This is after you point MX records to office365)

Schedule DeploymentPro

Schedule for Profile Cutover

This is the date and time scheduled for DeploymentPro to run on your Users' machines. The module will install on their devices at the next heartbeat, and then run silently until:

Select a date.
May 11th, 2018 11:30am

The time specified is (America/Denver).

Subscribed Users (no license required): 1

License Consumption

Users	License per User	Total Licenses Required
1	1	0

User Destination Email

The Destination email address is the email address of the new profile after it has been configured.

Source Email	Destination User Principal Name
<input type="text"/>	<input type="text" value="@crtrans.biz"/>

Cancel

Schedule Cutover

Note If there are multiple domains involved you will have to go to "settings" in the deployment pro page and change the domain for the users who need the separate domain

12. Once the agent is scheduled successfully, all users should change to a status of "running"

25 Total Users		25 Total Devices		1999059 Licenses Owned	
▶ Schedule Cutover					
Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 9:15am	0	0	0
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 4:00pm	0	0	0
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 9:15am	1	0	1
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 9:15am	0	0	1

13. If the status does not say "running" but remains in "scheduled" reschedule again until it moves into a **running status**

14. If users are not being picked up with the GPO, troubleshoot with one remote end user:

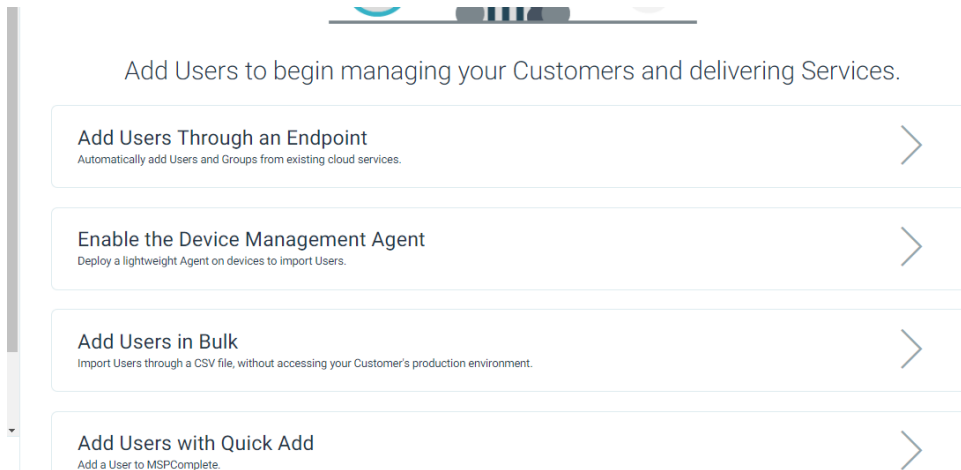
- Run Gpresult on their computer to see if the GPO is running
- If the GPO is running, try running the exe manually to see if it is blocked but a firewall setting
- If it is blocked, then create an exception to the firewall to allow the exe to run.
- If it is not being blocked check to see if there are any web proxy settings that may be blocking communication back to bittitan

15. *This completes the steps for setting up DMA via GPO. If you have completed this successfully then move on to the next section. If you are deploying the agent via email, follow steps 16-26.*

Deploying DMA via EMAIL

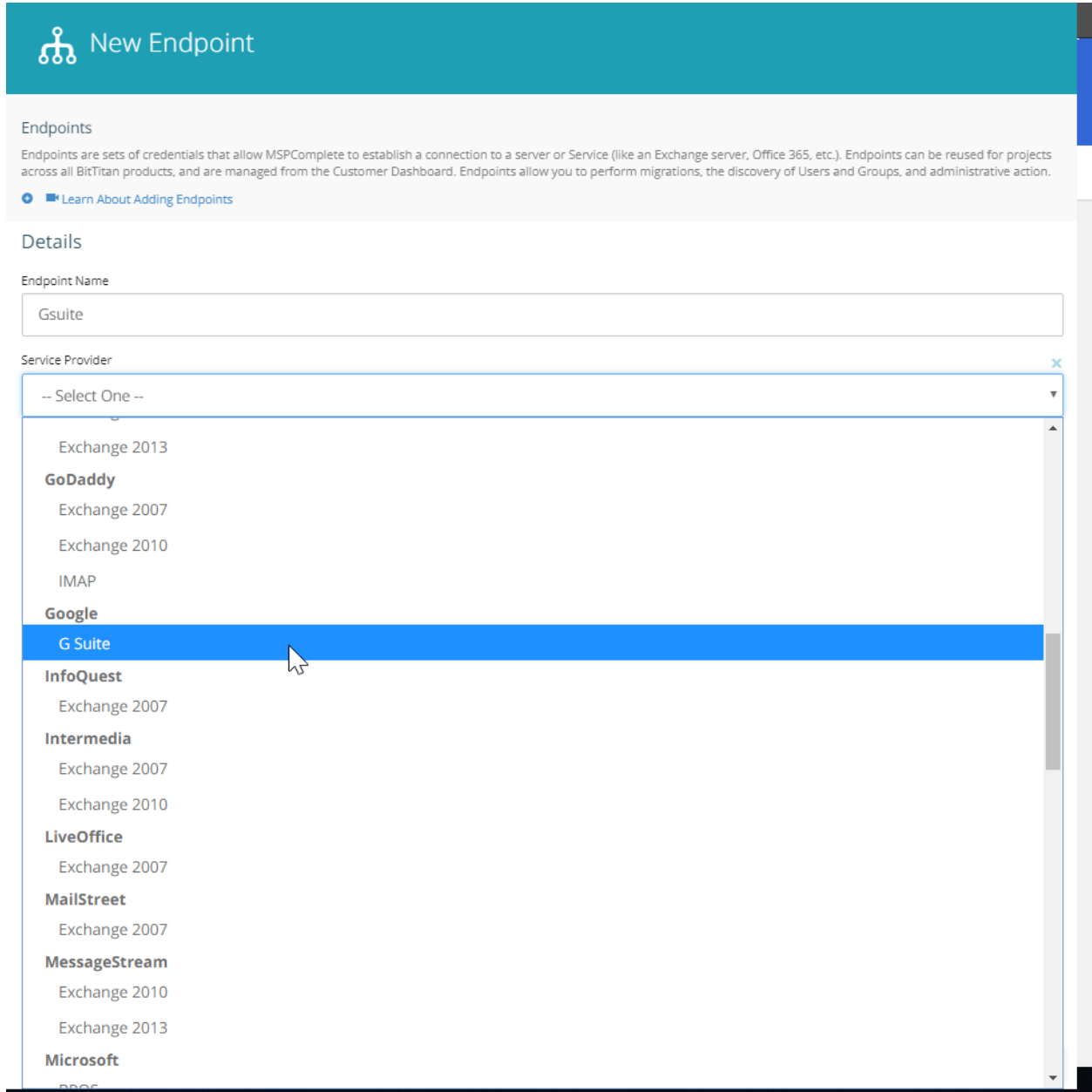
16. In the BitTitan portal, go to All Customers and select the customer you created

17. Click Add Users Through an Endpoint



18. Click Manage Endpoint>Add Endpoint

19. Add the G Suite Endpoint and Provide the primary domain involved and Admin Email Address:



New Endpoint

Endpoints

Endpoints are sets of credentials that allow MSPComplete to establish a connection to a server or Service (like an Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

[Learn About Adding Endpoints](#)

Details

Endpoint Name

Gsuite

Service Provider

-- Select One --

- Exchange 2013
- GoDaddy**
- Exchange 2007
- Exchange 2010
- IMAP
- Google**
- G Suite**
- InfoQuest**
- Exchange 2007
- Intermedia**
- Exchange 2007
- Exchange 2010
- LiveOffice**
- Exchange 2007
- MailStreet**
- Exchange 2007
- MessageStream**
- Exchange 2010
- Exchange 2013
- Microsoft**
- PPSC



New Endpoint

Endpoints

Endpoints are sets of credentials that allow MSPComplete to establish a connection to a server or Service (like an Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

[Learn About Adding Endpoints](#)

Details

Endpoint Name

Service Provider

From the drop-down menu, select a Service Provider. Based on your selection, we will complete the remaining fields for you.

Endpoint Type

Provide credentials

Providing credentials at the endpoint level allows you to have a centralized set of credentials that can be used across BitTitan products.

Do not provide credentials.

If credentials are not provided at the endpoint level, you will need to provide per-user credentials when using the endpoint as part of your projects.

Domains



Importing Users from a G Suite/Gmail endpoint requires an administrator email address.

Administrative Email Address (Optional)

Close

Add

Note This will autodiscover users from G Suite and populate them in the BitTitan portal

20. From here you can select users by checking the box next their name and selecting “Enable Device Management Through Email”

1 Users ▼ 🔍 Add Users ▼

1 Selected	Apply User Migration Bundle License	Delete Users	Enable Device Management Through Email			
<input type="checkbox"/>	Primary Email Address	User Principal Name	First Name	Last Name	DMA Status	License Expiration
<input checked="" type="checkbox"/>	Demouser@test.com	Demouser@test.com	Demo	User	🔔	None

21. Enter a valid email in the “From” section of the template and click Send Email

Enable Device Management Through Email

Device Management Agent

Email details

To change the list of recipients, go back to the Users list and update your selection.

You can use Markdown syntax to format your email. [Click here for help.](#)

To
Demouser@test.com

From
From

Enter email address

Subject
Action required: Install the BitTitan Device Management Agent on your computer.

Enter email subject

-- Insert a placeholder -- ▼

```

Hello {user_first_name},

### Important Announcement

We are currently planning a series of updates and improvements to our IT Services.
    
```

Note You can white label this email specific to the content you want users to receive. This email is specific to the user and **cannot be forwarded** to another user for them to click on the link for the exe file. The User Simply clicks on a link to open a new page and clicks on one more link to download the exe file

22. Monitor users that successfully have the agent installed by going to Customers>Select customers>Manage>Device Management>Deployment pro

You will need to put in the destination domain and add the 365 endpoint

Once users start to login to their computers, their device will be registered and their primary upn will be listed "Primary Email Address" column

125	80	1999058
Total Users	Total Devices	Licenses Owned

Home > Customers > Cardinal Transport > Device Management > DeploymentPro

DeploymentPro Settings

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

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[Schedule Cutover](#) Sort

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[Redacted]	[Redacted]	Not scheduled	5	0	0	0	0
[Redacted]	[Redacted]	Not scheduled	1	0	0	0	0
[Redacted]	[Redacted]	Not scheduled	1	0	0	0	0

23. Users computers will be listed and will have a "heartbeat". Once a user signs into the device their email will be tied to the device in a one to one relationship.

Home > Customers > Cardinal Transport > Device Management > Computers

Services Computers

80 Computers

Computer Name ↓	Number of Users	Agent Status
AR-004	1	✓
ARDEB	1	✓
AS400CONSOLE-PC	1	✓
BILLINGSARAH	1	✓
BROKERAGEJD-CR	1	✓
CRDT-AR-DLS	1	?

* If a status shows a ? symbol it most likely means the computer is shutdown and the tool hasn't been able to find a heartbeat in over 4 hours*

CRDTAPP	2	✓
CRDT-AR-DLS	1	?

24. Once all users have populated with a and have the DMA agent installed, Schedule the cutover date for the agent to run on their computer. (This is after you point MX records to office365)

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The time specified is (America/Denver).



Subscribed Users (no license required): 1

License Consumption

Users	License per User	Total Licenses Required
1	1	0

User Destination Email

The Destination email address is the email address of the new profile after it has been configured.

Source Email	Destination User Principal Name
	 <input type="text" value="@crtrans.biz"/>

Cancel

Schedule Cutover

Note If there are multiple domains involved you will have to go to "settings" in the deployment pro page and change the domain for the users who need the separate domain

25. Once the agent is scheduled successfully, all users should change to a status of "running"

25 Total Users	25 Total Devices	1999059 Licenses Owned			
Schedule Cutover					
Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 9:15am	0	0	0
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 4:00pm	0	0	0
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 9:15am	1	0	1
[Redacted]	[Redacted]	Scheduled on Apr 30, 2018 9:15am	0	0	1

26.If the status does not say "running" but remains in "scheduled" reschedule again until it moves into a running status

Prep Work Phase 5: Setup BitTitan Project

1. In BitTitan Portal, Open MigrationWiz by clicking on waffle icon at top of the page>Click Mailbox Migration









The screenshot shows the BitTitan Portal navigation menu. At the top, there are buttons for 'Add', 'Feedback', 'Help', and 'Purchase'. Below these are navigation options for 'Computers' and 'Gateways'. A search bar is present with the label 'Last Name'. The main menu is open, displaying various migration and management tools. The 'Mailbox Migration' option is highlighted in the bottom right of the menu.

- Document Migration
- Public Folder Migration
- Cloud Storage Migration
- DeploymentPro
- UserActivation for CSP
- HealthCheck for Office 365
- HealthCheck for Azure
- UserActivation
- Mailbox Migration
- Personal Archive

2. Click Create Project>Select 'Create a Mailbox Project'


PROJECT TYPE

Select a Project Type:

<p>Create a Mailbox Project</p> <p><input checked="" type="radio"/> With Mailbox Projects, automatically migrate data related to the User mailbox. With most configurations you can migrate email, calendars, contact...</p> 	<p>Create a Document Project</p> <p><input type="radio"/> With Document Projects, automatically transfer all your data (including your entire folder hierarchy) from one cloud storage solution to anothe...</p> 
<p>Create a Public Folder Project</p> <p><input type="radio"/> Public Folder Projects fully automate the migration process of moving Public Folders, including Public Folder structure and permissions, from one...</p> 	<p>Create a Personal Archive Project</p> <p><input type="radio"/> With Personal Archives, you can automatically migrate all of your archived...</p> 
<p>Create an Archive Migration Service Project</p> <p><input type="radio"/> With Archive Migration Services, you can migrate large-scale, enterprise-level archived...</p> 	<p>Create a Cloud Storage Project</p> <p><input type="radio"/> With Cloud Storage Projects, migrate large-scale and unstructured...</p> 
<p>Create a Collaboration Project</p> <p><input type="radio"/> With Collaboration Projects, you can automatically migrate data from one collaboration platform to...</p> 	<p>Create A Database Project</p> <p><input type="radio"/> Database Projects enable you to migrate on-premises Microsoft SQL Server 2005 and later to Microsoft SQL Server 2012 and later, as well as Microsoft...</p> 

3. Name the Project and select your customer from the dropdown>Click Next Step

PROJECT INFORMATION



Mailbox

With Mailbox Projects, automatically migrate data related to the User mailbox. With most configurations you can migrate email, calendars, contacts, journals, tasks, and notes.

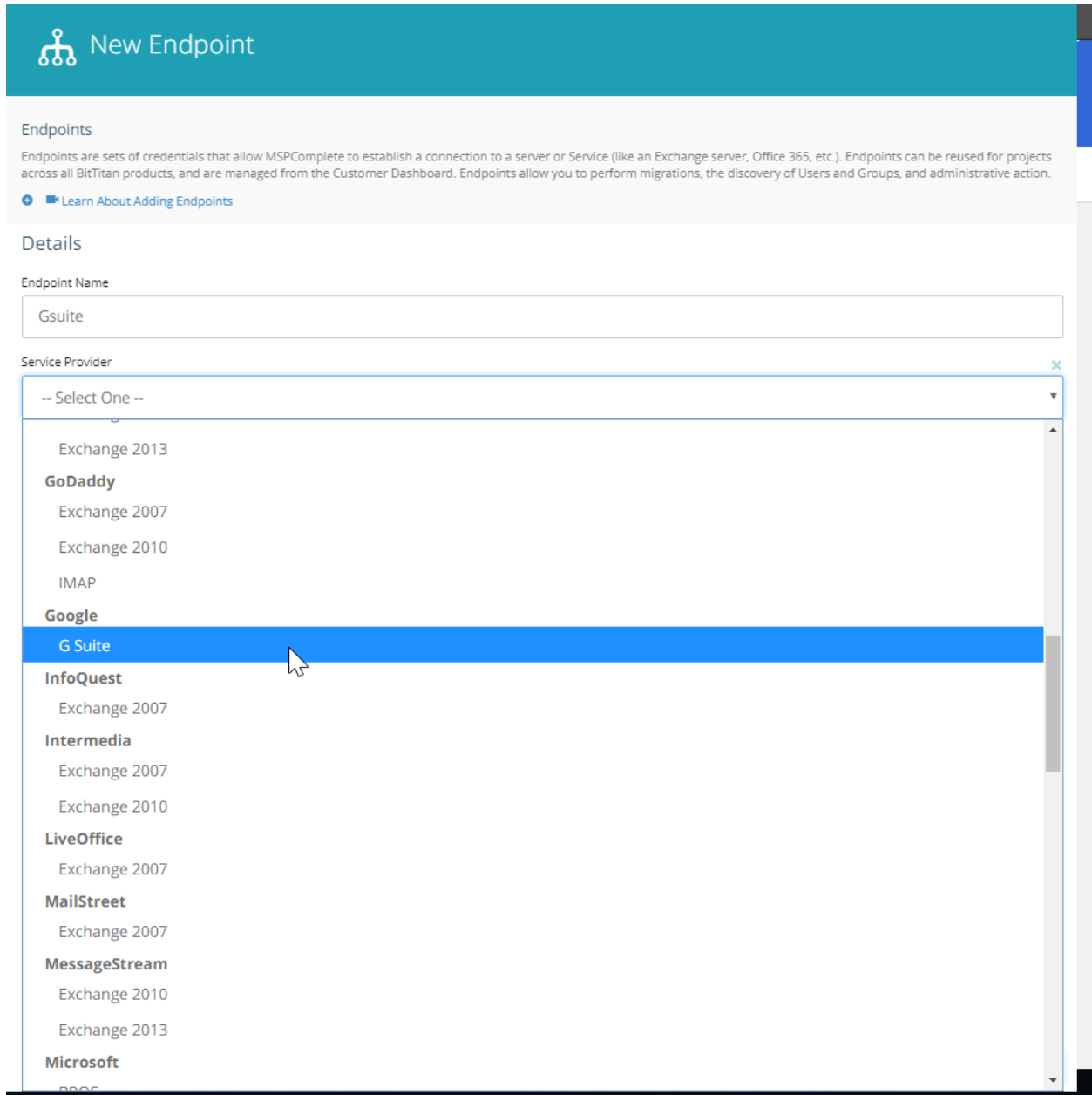
Project Name*

Customer*

Search for a Customer
▼
New

Next Step

4. If you followed the steps for email deployment for the DMA agent you should be able to select your endpoint from the dropdown. If you did not, Select New and fill out the fields as shown below:



New Endpoint

Endpoints

Endpoints are sets of credentials that allow MSPComplete to establish a connection to a server or Service (like an Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

[Learn About Adding Endpoints](#)

Details

Endpoint Name

Gsuite

Service Provider

-- Select One --

- Exchange 2013
- GoDaddy**
- Exchange 2007
- Exchange 2010
- IMAP
- Google**
- G Suite**
- InfoQuest**
- Exchange 2007
- Intermedia**
- Exchange 2007
- Exchange 2010
- LiveOffice**
- Exchange 2007
- MailStreet**
- Exchange 2007
- MessageStream**
- Exchange 2010
- Exchange 2013
- Microsoft**



New Endpoint

Endpoints

Endpoints are sets of credentials that allow MSPComplete to establish a connection to a server or Service (like an Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

[Learn About Adding Endpoints](#)

Details

Endpoint Name

Service Provider

From the drop-down menu, select a Service Provider. Based on your selection, we will complete the remaining fields for you.

Endpoint Type

Provide credentials

Providing credentials at the endpoint level allows you to have a centralized set of credentials that can be used across BitTitan products.

Do not provide credentials.

If credentials are not provided at the endpoint level, you will need to provide per-user credentials when using the endpoint as part of your projects.

Domains



Importing Users from a G Suite/Gmail endpoint requires an administrator email address.

Administrative Email Address (Optional)

Close

Add

5. In the Destination Settings, Click New, and add the 365 endpoint. Providing the admin credentials

New Endpoint

Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

[Learn About Adding Endpoints](#)

Details

Endpoint Name

If you don't know your Server Type, click the button:

[+ Find My Service Provider](#)

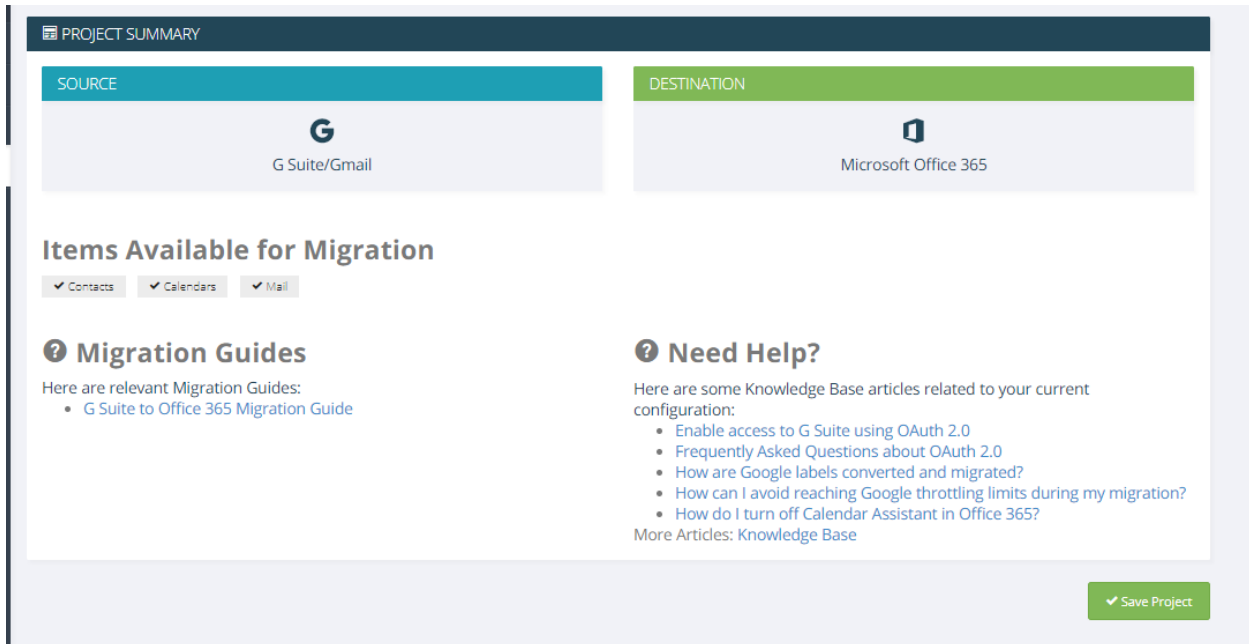
Endpoint Type

Provide credentials
Providing credentials at the endpoint level allows you to have a centralized set of credentials that can be used across BitTitan products.

Do not provide credentials.
If credentials are not provided at the endpoint level, you will need to provide per-user credentials when using the endpoint as part of your projects.

Administrator Username

6. Click “Save and Go to Summary” This tells you what is eligible to move and gives you additional KB articles you can reference. Click ‘Save Project’ when you are ready to proceed



PROJECT SUMMARY

SOURCE
G Suite/Gmail

DESTINATION
Microsoft Office 365

Items Available for Migration
▼ Contacts ▼ Calendars ▼ Mail

Migration Guides
Here are relevant Migration Guides:
• [G Suite to Office 365 Migration Guide](#)

Need Help?
Here are some Knowledge Base articles related to your current configuration:
• [Enable access to G Suite using OAuth 2.0](#)
• [Frequently Asked Questions about OAuth 2.0](#)
• [How are Google labels converted and migrated?](#)
• [How can I avoid reaching Google throttling limits during my migration?](#)
• [How do I turn off Calendar Assistant in Office 365?](#)
More Articles: [Knowledge Base](#)

[Save Project](#)

7. Add items to your project. If you already added users to the MSP complete portal either through GPO or an endpoint. You can select "Add from MSP Complete". If you have not yet, then you can select Autodiscover items to import users to the portal. Additionally, you could bulk upload users via CSV. (Great time saver is to use the CSV you pulled from Prep Work Phase 1 and copy/paste it into BitTitan's template)

Add items to your Project.

Click the "Add" menu in the toolbar, and select an option for adding items.

- Add From MSPComplete**
Add Users from an existing Customer.
- Quick Add**
Add one item at a time.
- Bulk Add**
Use our online spreadsheet, or a file of your own, to add items.
- Autodiscover Items**
Use MigrationWiz to automatically discover all of your items.

8. Audit User names and Domains (Make sure they match 365). Clean up user-list. Verify the Source and Destination domains are correct.

9. Select All Users>Verify Credentials

Source Email	Last Updated	Migrated	User Migration Bundl...	Error	Status
Demouser@test.com	May 9, 2018 2:49pm	0 bytes	No	0	Not Submitted

10. There are numerous errors that could appear here. Most of the steps I made for prep work will make it so that you avoid most of these errors. Refer to BitTitans KB articles for most common errors and how to troubleshoot. <https://help.bittitan.com/hc/en-us/sections/115003465187-Mailbox-Error-Lookup?page=2>

Unsuccessful verification will show a “Failed” Message

Source Email	Destination Email	Last Updated	Migrated	User Migration Bundl...	Error	Status
Demouser@test.com	Demouser@test.onmicr...	May 9, 2018 2:53pm	0 bytes	No	0	Failed

You can click on the Failed icon to show a detailed message of what failed

DEMOUSER@TEST.COM — MICROSOFT OFFICE 365 TO MICROSOFT OFFICE 365 MIGRATION (FAILED)

FOLDER SUMMARY

No Data.
This item hasn't started migrating..

0 of 0 folders completed.

MIGRATED ITEMS

Type	Success	Errors
Total	0 (0 bytes)	0 (0 bytes)

MIGRATION ERRORS

⚠ Your migration failed checking source credentials. Office 365 user names should always be specified as email addresses. Ensure user names are specified as email addresses.

Source Server 8 minutes ago

[Learn More](#)

Click on “Learn More” to access BitTitan’s Relevant kb articles specific to the error:

OFFICE 365 USER NAMES SHOULD ALWAYS BE SPECIFIED AS EMAIL ADDRESSES Open In New Window

Office 365 user names should always be specified as email addresses: This error indicates that the specified Office 365 user name is invalid. Office 365 requires users to log in with an email address, not a user name as in "John Doe" or "domain\johndoe".

Resolution:

We recommend the following:

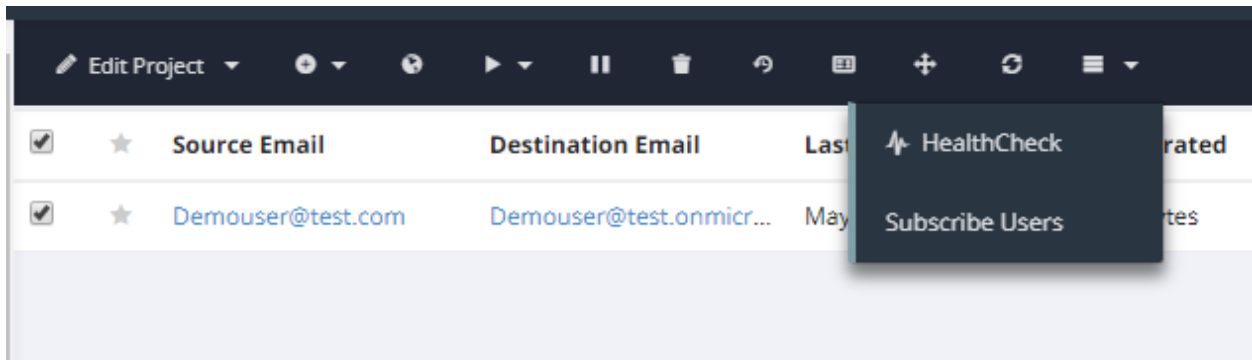
1. If using administrative credentials for Office 365, check the admin user name specified on your project.
2. If not using administrative credentials for Office 365, check the mailbox owner user name specified on the mailbox.
3. In all cases, make sure the user name work when logging in at <https://login.microsoftonline.com>.

Close

Successful Verification will show a “Completed(Verification)” message

<input type="checkbox"/>	★ Source Email	Destination Email	Last Updated	Migrated	User Migration Bundl...	Error	Status
<input checked="" type="checkbox"/>	★ accounts-payable@vel...	accounts-payable@vel...	May 9, 2018 2:52pm	267.17 KB	No	0	✓ Completed (Verifica...

11. After all users have successfully completed verification, Select All users>Click on the Hamburger icon at the top of the toolbar> Click Subscribe Users



12. This will bring you back to the MSP complete portal. Select all users>Click Apply User Migration Bundle

1 Users

<input type="checkbox"/>	Primary Email Addre...	User Principal Name	First Name	Last Name	DMA Status
<input checked="" type="checkbox"/>	Demouser@test.com	Demouser@test.com	Demo	User	

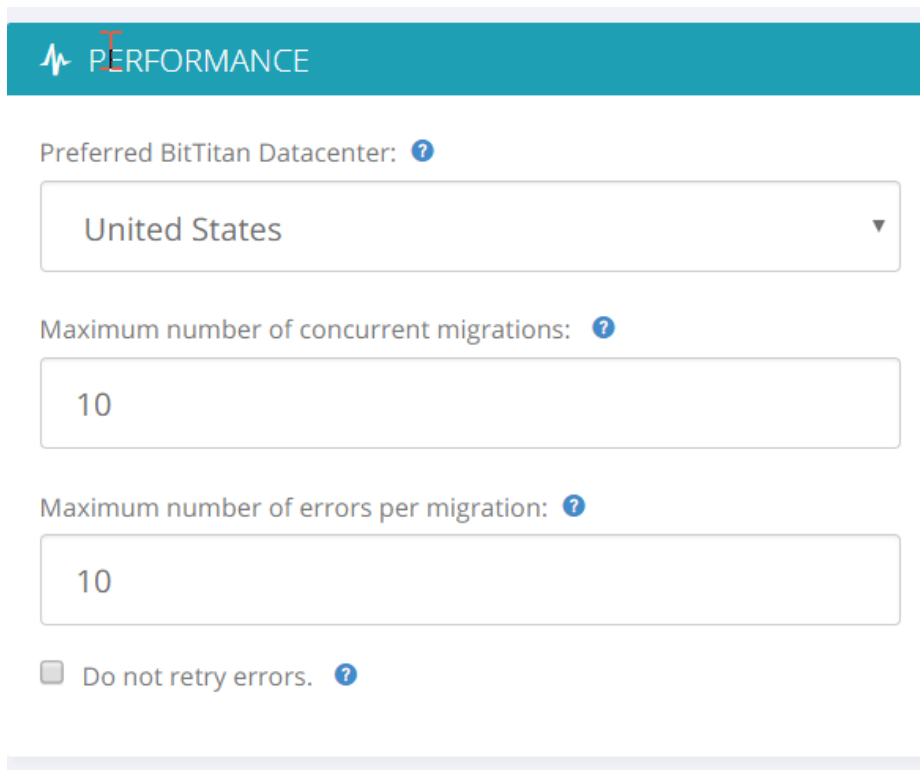
13. This takes a couple of minutes to propagate but after, in the migrationwiz portal the “User Migration Bundle” column will change from “No” to “Yes”

User Migration Bundl...

Yes

14. Go to Edit Project>Advanced Settings>Set Maximum # of Concurrent Migration (Guideline 3 per 1Mbps of Bandwith)>Save

NOTE This step isn't as important for G Suite migration because your uploads speeds will generally be very fast

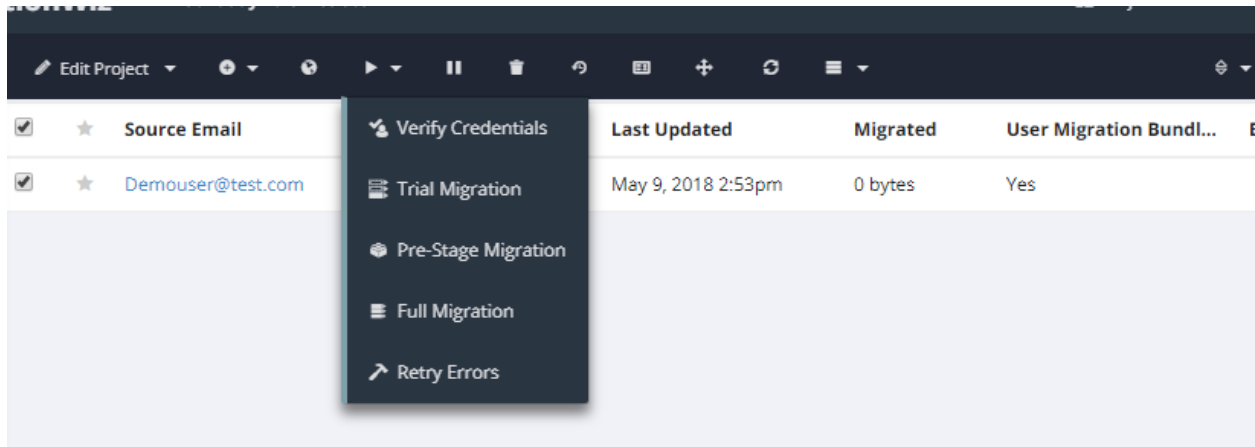


Migration Phase 1

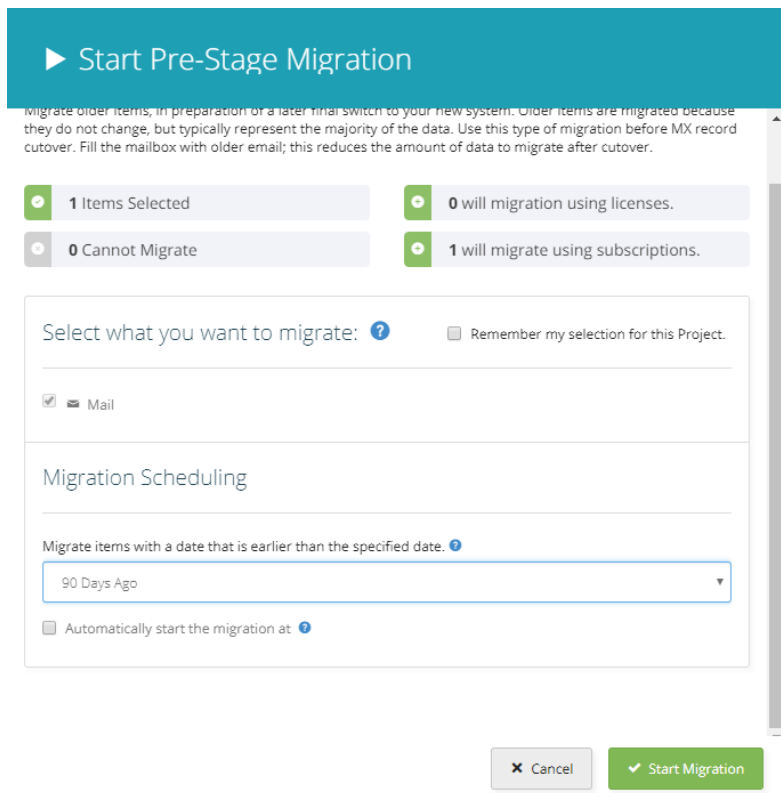
1. Preferably start at beginning of the week to bring over a bulk of the mail, plan for domain cutover on Friday evening

Note During a pre-stage Pass BitTitan is simply making copies of mail in 365. The user will experience no loss of data during this time*

2. Select All Users>Click on the start button>Pre-stage Migration



3. Select a time range from the dropdown of prior to 90 days>Start Migration



4. This will give you a status bar and show the amount of data moved over in the “bytes” column. If any users fail, it’s usually do to server timeout. Simply rerun the pre-stage pass on these users to restart where it left off. If you click on any user’s name, you can see metrics like upload speeds:

The screenshot shows two panels. The left panel, titled "MIGRATION HISTORY", lists several migration steps with their status and duration:

- Verify Credentials: Success, a few seconds
- Full Migration: Success, 3 minutes
- Full Migration: Success, 2 minutes
- Full Migration: Success, 2 minutes

The right panel, titled "DURATION AND SPEED", provides a summary of migration statistics:

Statistic	Source	Destination
Active Duration	6 minutes	a few seconds
Passive Duration	Less than a second	6 minutes
Data Speed	3 MB/hr	146 MB/hr
Item Speed	97 items/hr	5,597 items/hr

Below the statistics is a button labeled "Performance Analysis".

5. Once the pre-stage migration has run for all users and is in a "Completed" Status

		May 8, 2018 6:53am	441.16 MB	No	0	✓ Completed	
		May 8, 2018 6:53am	506.66 MB	No	0	✓ Completed	
		May 8, 2018 6:53am	6.09 GB	No	23	✓ Completed	
		May 8, 2018 6:52am	29.49 MB	No	0	✓ Completed	
		May 8, 2018 6:57am	25.17 GB	No	31	✓ Completed	

6. Next we are going to perform a full migration to bring over copies of remaining mail plus calendars, contacts, notes, journals, rules. Select All users>Click on the start button>Full Migration

The screenshot shows the migration interface with a context menu open for the user "Demouser@test.com". The menu options are:

- Verify Credentials
- Trial Migration
- Pre-Stage Migration
- Full Migration
- Retry Errors

The background table shows the migration progress for "Demouser@test.com":

Source Email	Last Updated	Migrated	User Migration Bundl...
Demouser@test.com	May 9, 2018 2:53pm	0 bytes	Yes

7. You can schedule this to start at a specific time if you would like:

▶ Start Full Migration

What is a Full Migration? [?](#)

Use this type of migration for Big Bang (Single-Pass) Migrations, or for following an earlier Pre-Stage Migration. Use this after MX record cutover to make sure you are not missing any data.

▶ 1 Items Selected

▶ 0 Cannot Migrate

▶ 0 will migration using licenses.

▶ 1 will migrate using subscriptions.

Select what you want to migrate: [?](#) Remember my selection for this Project.

Contacts

Calendars

Mail

Journals

Notes

Tasks

Rules

Migration Scheduling

Automatically start the migration at [?](#)

May ▼

10 ▼

2018 ▼

0 ▼

0 ▼

(Local Time)

8. Confirm all users go into a "Completed" Status

Migration Phase 2: MX Cutover

1. At Designated time, login to DNS provider and change you MX records to point to Office365
 - a. You can find this in the 365 Admin Center by going to Setup>Domains
 - b. Office365 MX record follow this format **Domain-com.mail.protection.outlook.com**
2. Run another Full Pass. This will perform a **delta sync** to pull over any residual data that may have been missed.

Migration Phase 3: Post Migration Cleanup

1. Audit Destination Environment Mailflow for Inbound/Outbound Mail
2. Login to BitTitan>Go to All customers>Select customer>Manage>Device Management>Deployment Pro
3. Make sure DMA status has moved into "Completed" status. If in "error" status it means the users failed authentication 3x. Reschedule the tool to run at the next time interval available

Customers > CEI > Device Management > DeploymentPro

DeploymentPro Settings

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

11 Total Users
11 Total Devices
1999059 Licenses Owned

Schedule Cutover Sort Q

Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running	Completed	Error
[Redacted]	[Redacted]	Scheduled on May 4, 2018 1:00pm	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on May 7, 2018 11:00am	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on May 7, 2018 11:00am	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on May 7, 2018 11:00pm	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on May 4, 2018 1:00pm	0	0	0	1	0
[Redacted]	[Redacted]	Scheduled on May 4, 2018 1:00pm	0	0	0	1	0

4. Reconfigure any mailbox permissions
5. Send out guides on reconfiguring mail on Iphone/Andriod:
 - a. <https://support.office.com/en-us/article/set-up-email-using-the-ios-mail-app-7e5b180f-bc8f-45cc-8da1-5cefc1e633d1>
 - b. <https://support.office.com/en-us/article/set-up-email-in-android-email-app-71147974-7>
6. Perform and account clean up that is required