

PS RoomSigning

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Introduction

PSRoomSigning is a PowerShell based solution for RoomSigning, you can run this script on your Windows based display device, webserver or run natively in Azure. RoomSigning will show the meetings of your meeting rooms in your environment. If you have an information display in your company restaurant or foyer you can display this information. Only meetings of today are displayed and meetings in the past are no longer on the screen.



Location	Time	Meeting Name	Organizer
Amsterdam	14:00 - 15:00	Microsoft 365 migration	Stefan Peters
Meeting Room	14:00 - 14:30	Conference Call	Luke Skywalker
Eindhoven	15:30 - 17:00	Demo Azure	Stefan Peters

Example of RoomSigning

How does it work?

The PowerShell script is designed to run as a scheduled task, or scheduled Azure Automation Runbook. The script needs a Service Principal Name in Azure AD with 'Calendar.Read' and 'Directory.Read' permissions. And when your target is Azure Web App Service the SPN needs Contributor permissions on the App Service.

When the script runs it will read the configured Exchange Online Room mailboxes and will render an HTML file in a configured target location. This HTML file is the visual representation of the Exchange Rooms. The HTML location needs to be a location where your display device can access it. This can be a webserver running local or in Azure or can be a local folder or a shared folder on a file share. If your client can access it, it will work.

The HTML file generated contains a 30 second auto refresh setting so when the script writes a new version it will be updated automatically.

Preparations

Install the PowerShell modules “Az” and “Microsoft.Graph” on a recent and supported version of Windows. If you want to publish the result on a webserver install IIS or another webserver.

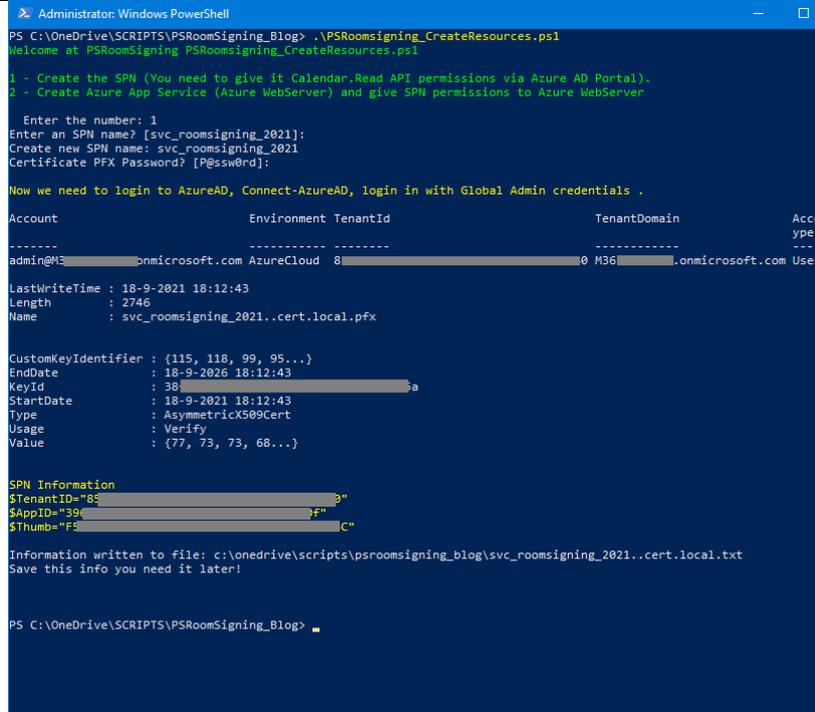
Commands to install the modules:

- Install-Module Az
- Install-Module Microsoft.Graph

Create SPN in Azure AD

Login to the server with the service account that will run the Scheduled Tasks, the script will save the certificate in the user context. Setup folder structure as above in the example and table. Open an elevated PowerShell and browse to the c:\scripts\PSRoomSigning folder.

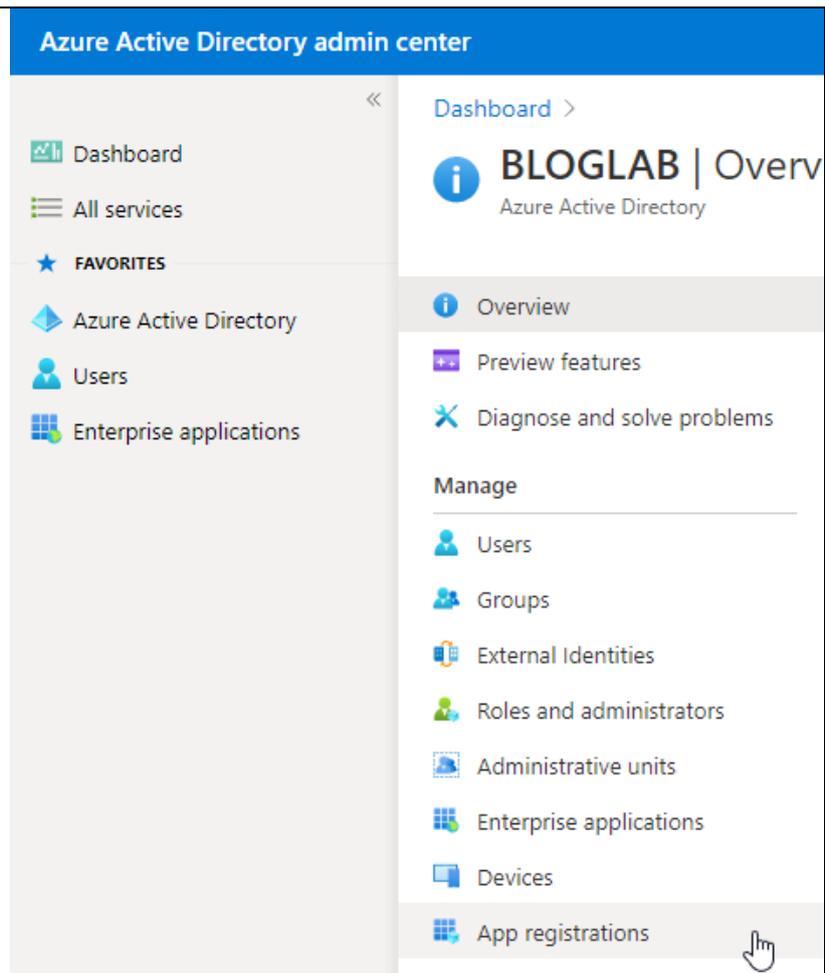
Execute the “PSRoomSigning_CreateResources.ps1” script and follow setup 1.

<p>First, we need to create the SPN, choose option 1.</p> <p>Change the SPN name if you like and enter a secret for the PFX file.</p> <p>You will be prompted to login with a Global Admin account.</p> <p>Save the yellow output: SPN Information</p> <p>You need to paste these 3 variables into your script.</p>	 <pre>Administrator: Windows PowerShell PS C:\OneDrive\SCRIPTS\PSRoomSigning_Blog> .\PSRoomSigning_CreateResources.ps1 Welcome at PSRoomSigning PSRoomSigning_CreateResources.ps1 1 - Create the SPN (You need to give it Calendar.Read API permissions via Azure AD Portal). 2 - Create Azure App Service (Azure WebServer) and give SPN permissions to Azure WebServer Enter the number: 1 Enter an SPN name? [svc_roomsigning_2021]: Create new SPN name: svc_roomsigning_2021 Certificate PFX Password? [P@ssw0rd]: Now we need to login to AzureAD, Connect-AzureAD, login in with Global Admin credentials . Account Environment TenantId TenantDomain AccountType ----- admin@M365.onmicrosoft.com AzureCloud 80000000000000000000000000000000 M365 onmicrosoft.com User LastWriteTime : 18-9-2021 18:12:43 Length : 2746 Name : svc_roomsigning_2021..cert.local.pfx CustomKeyIdentifier : {115, 118, 99, 95...} EndDate : 18-9-2026 18:12:43 KeyId : 38 StartDate : 18-9-2021 18:12:43 Type : AsymmetricX509Cert Usage : Verify Value : {77, 73, 73, 68...} SPN Information \$TenantID="80000000000000000000000000000000" \$appID="39c59656-411a-473a-b8c6-424242424242" \$Thumb="FS" Information written to file: c:\onedrive\scripts\psroomsigning_blog\svc_roomsigning_2021..cert.local.txt Save this info you need it later! PS C:\OneDrive\SCRIPTS\PSRoomSigning_Blog></pre>
---	---

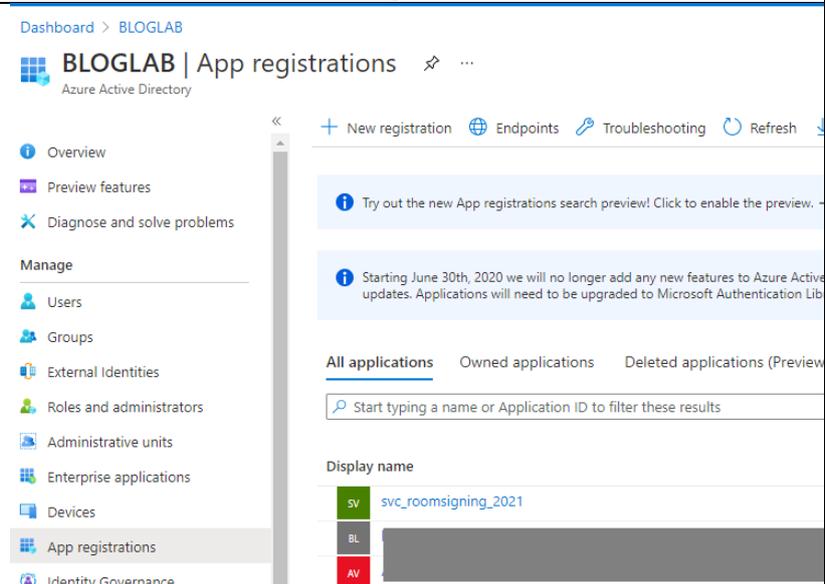
Login to Azure AD portal as Global Admin.

<https://aad.portal.azure.com>

Click Azure Active Directory and then “App Registrations”



Find the SPN created earlier and click on it.



Click on API permissions and click Add a permission.

Dashboard > BLOGLAB > svc_roomsigning_2021

svc_roomsigning_2021 | API permissions

Search (Ctrl+/) Refresh Got feedback?

- Overview
- Quickstart
- Integration assistant

Manage

- Branding
- Authentication
- Certificates & secrets
- Token configuration
- API permissions**
- Expose an API
- App roles
- Owners
- Roles and administrators | Preview

The "Admin consent required" column shows the default value for all the permissions the application needs. [Learn more](#)

Configured permissions

Applications are authorized to call APIs when they are granted permissions. To view and manage permissions and user consent, try [Enterprise app](#)

[+ Add a permission](#) Grant admin consent for BLOGLAB

API / Permissions name	Add a permission type	Description
No permissions added		

Click on Microsoft Graph.

Request API permissions

Select an API

Microsoft APIs APIs my organization uses My APIs

Commonly used Microsoft APIs



Microsoft Graph
Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility + Security, and Windows 10. Access Azure AD, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, Planner, and more through a single endpoint.

Click Application permissions type in 'ca' in the search bar and select Calendar.Read

Click Add permissions on the bottom.

Request API permissions

[< All APIs](#)



Microsoft Graph

<https://graph.microsoft.com/> [Docs](#)

What type of permissions does your application require?

Delegated permissions

Your application needs to access the API as the signed-in user.

Application permissions

Your application runs as a background service or daemon w signed-in user.

Select permissions

ca

Permission	Admin consent required
> AppCatalog	
> Application	
∨ Calendars (1)	
<input checked="" type="checkbox"/> Calendars.Read ⓘ Read calendars in all mailboxes	Yes
<input type="checkbox"/> Calendars.ReadWrite ⓘ Read and write calendars in all mailboxes	Yes
> CallRecord-PstnCalls	
> CallRecords	
> Calls	
> Policy	
> ThreatIndicators	
> UserAuthenticationMethod	

Add permissions

Discard

Click Application permissions type in 'dir' in the search bar and select Directory.Read

Click Add permissions on the bottom.

Request API permissions

[< All APIs](#)

Microsoft Graph
<https://graph.microsoft.com/> [Docs](#)

What type of permissions does your application require?

Delegated permissions
 Your application needs to access the API as the signed-in user.

Application permissions
 Your application runs as a background service or daemon without a signed-in user.

Select permissions

Search: dir

Permission	Admin consent required
<p>Directory (1)</p>	
<input checked="" type="checkbox"/> Directory.Read.All Read directory data	Yes
<input type="checkbox"/> Directory.ReadWrite.All Read and write directory data	Yes
<p>> RoleManagement</p>	

Click on "Grant Admin consent for."

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions include all the permissions the application needs. [Learn more about permissions and consent](#)

API / Permissions name	Type	Description
<p>Microsoft Graph (2)</p>		
Calendars.Read	Application	Read calendars in all mailboxes
Directory.Read.All	Application	Read directory data

To view and manage permissions and user consent, try [Enterprise applications](#).

Click Yes.

Grant admin consent confirmation.
 Do you want to grant consent for the requested permissions for all accounts in BLOGLAB? This will update any existing admin consent records this application already has to match what you are requesting.

Both permissions are granted.

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions include all the permissions the application needs. [Learn more about permissions and consent](#)

API / Permissions name	Type	Description	Admin consent req...	Status
<p>Microsoft Graph (2)</p>				
Calendars.Read	Application	Read calendars in all mailboxes	Yes	✔ Granted for BLOG
Directory.Read.All	Application	Read directory data	Yes	✔ Granted for BLOG

To view and manage permissions and user consent, try [Enterprise applications](#).

The SPN is now setup for the PSRoomSigning script.

Configuration in PowerShell script

In the table below are all configurable items from the "PSRoomSigning2021.ps1" script.

For running on Windows Server, the first setting (`$SaveOnAzureAppService`) needs to be turned to `$false`.

You can run multiple instances of this script, for different floors, buildings or whatever suits your needs. You need to create a folder structure (Windows) or multiple Runbooks (Azure) to accommodate for multiple instances. Each copy of the script needs to be configured separately.

<code>[PSRoomSigning2021.ps1]</code>
<code>\$SaveOnAzureAppService=\$false</code> False – save on local disk for Windows Server True – save on Azure Web Service <i>Required Setting</i>
<code>\$AzureAppServiceRelativePath = "rs01"</code> <code>\$AzureAppServiceName = "webapp2021"</code> <code>\$AzureAppServiceResourceGroup = "rg-psroomsigning"</code> Parameters to find the Azure Web App Service and relative path for multiple instances. Values are listed when you choose options 2 from the script: "PSRoomsigning_CreateResources.ps1" <i>Required Setting for Azure Web Server target.</i>
<code>\$WindowsBasedLocation = "C:\inetpub\wwwroot\rs01\default.htm"</code> Path to the local wwwroot folder, including the filename. <i>Required Setting for Windows Server target</i>
<code>\$TenantID="XXXXXXXX-YYYY-ZZZZ-XXXX-XXXXYYYYZZZZ"</code> <code>\$AppID="11111111-2222-3333-4444-555566667777"</code> <code>\$Thumb="1234567890ABCDEF1234567890ABCDEF12345678"</code> Replace these variables with the info after running option 1 from this script: "PSRoomsigning_CreateResources.ps1" <i>Required Setting</i>
<code>\$rooms="meetingroom1@domain.com","meetingroom2@domain.com"</code> Enter one or more meeting room email addresses in this variable. These rooms will be read for meeting items. <i>Required Setting</i>
<code>\$htmlbackgroundpicturefilename="psroomsigning_bg.png"</code> Default filename for the background picture.
<code>\$enableHTMLclock=\$true # Enable HTML clock</code> <code>\$clockalign="right" # HTML Clock alignment Allowed values: right,left,center</code> <code>\$clockshowseconds=\$false # Show seconds on clock true: HH:mm.ss - false: HH:mm</code> Variables for configuring the clock on screen.
<code>\$HTMLClockColor="848284" # HTML Clock text color default color: 848284</code>

```

$ItembackgroundColor="848284" # Item level background color default: 848284
$RoomNameColor="000000" # Item level background color default: 000000
$ItemColor="FFFFFF" # Item level background color default: FFFFFF
$DateStampColor="000000" # Item level background color default: 000000

```

Variables for configuring colors.

```

$maxcalendaritems=9 # Maximum number of items on the screen.
$maxsubjectlength=53 # Truncates the subject on maximum chars
$skiplines=3 # Add empty lines from top of screen to align with
background picture.

```

Variables speak for themselves just play with the values if default doesn't look good.

```

$datestamp=$true # Add the date on the bottom of the screen.
$showSnapshotTimeStamp=$false # Adds a timestamp when the snapshot/html file was
created, designed for troubleshooting but can be used in production also.

```

Choose true/false only for these two.

```

$timezoneID="W. Europe Standard Time" # Use this command to list alle available
timezones: get-timezone -ListAvailable copy the ID in this line.
$CultureID="nl-NL" # Use this command to list all available
cultures, put the info from the NAME column in this variable:
[System.Globalization.CultureInfo]::GetCultures([System.Globalization.CultureType
s]::AllCultures)

```

If you are not from The Netherlands you need to reconfigure these values, in the comments the PowerShell commands are listed how to find your values to put in the variables.

All other PowerShell commands do not need to be changed and should work as is.

Prepare the background

The ZIP download contains an example background for the RoomSigning screen. You can customize this to your own needs. Use any PNG editor to change the logo's, the colors etc. You can even have multiple backgrounds, so each instance has its own background.

Location	Time	Subject	Organizer
Amsterdam	14:00 - 15:00	Microsoft 365 migration	Stefan Peters
Meeting Room	14:00 - 14:30	Conference Call	Luke Skywalker
Eindhoven	15:30 - 17:00	Demo Azure	Stefan Peters

19 september 2021

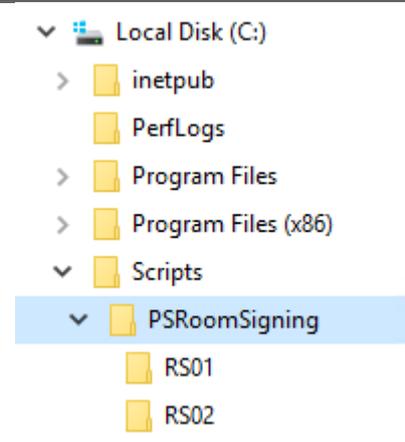
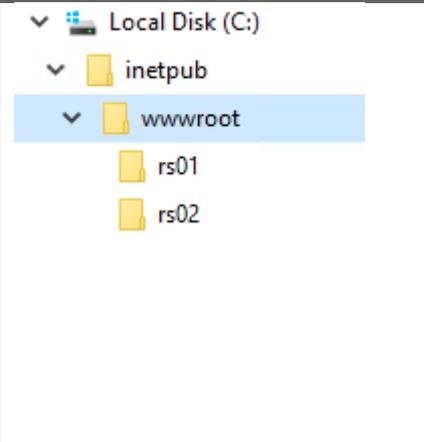
Install on a Windows Server

On your Windows Server where you want to run the script, install the PowerShell modules “Az” and “Microsoft.Graph” on a recent and supported version of Windows. If you want to publish the result on a webserver install IIS or another webserver.

Commands to install the modules:

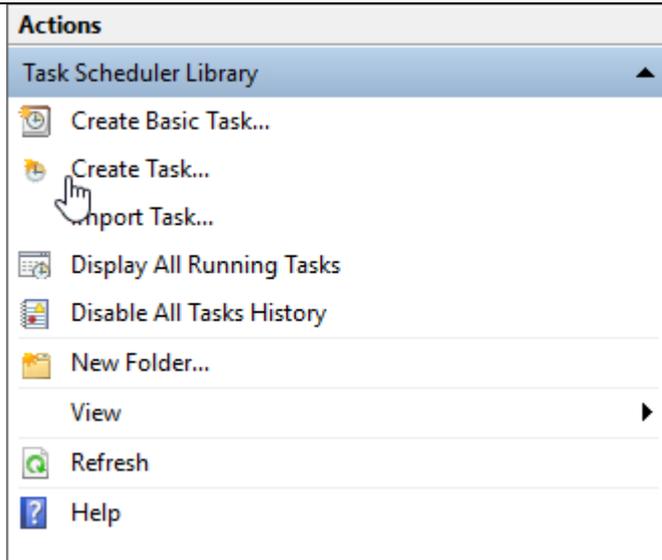
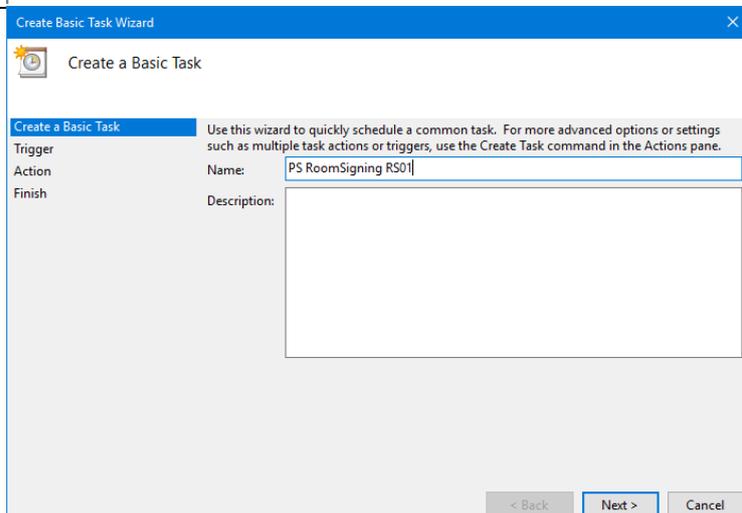
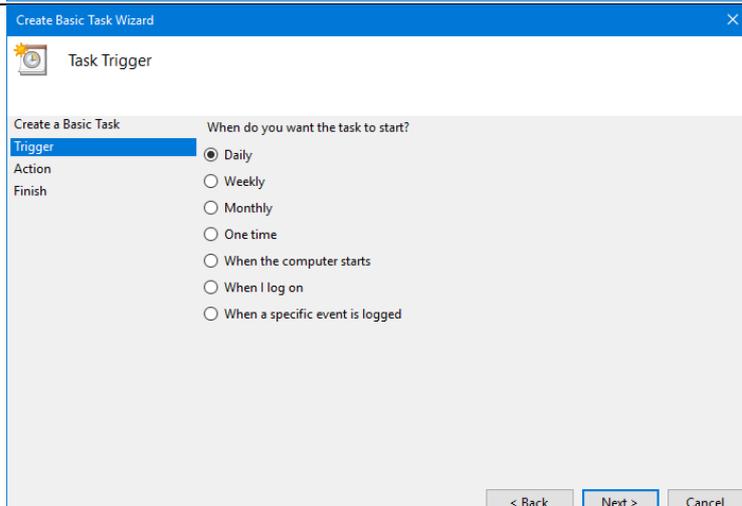
- Install-Module Az
- Install-Module Microsoft.Graph

Example folder structures:

PowerShell Script	WebServer
 <p>Local Disk (C:) <ul style="list-style-type: none"> inetpub PerfLogs Program Files Program Files (x86) Scripts PSRoomSigning <ul style="list-style-type: none"> RS01 RS02 </p>	 <p>Local Disk (C:) <ul style="list-style-type: none"> inetpub <ul style="list-style-type: none"> wwwroot <ul style="list-style-type: none"> rs01 rs02 </p>

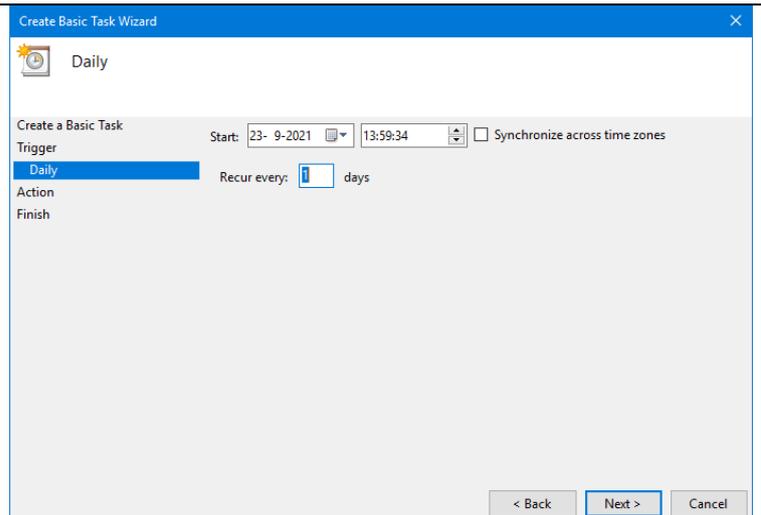
C:\scripts\PSRoomSigning		
	\rs01	
		PSRoomSigning2021.ps1
		psroomsigning_bg.png
	\rs02	
		PSRoomSigning2021.ps1
		psroomsigning_bg.png
		PSRoomsinging_CreateResources.ps1

Configure the scheduled task

<p>Open Task Scheduler.</p> <p>Click "Create Basic Task..."</p>	 <p>Actions</p> <p>Task Scheduler Library ▲</p> <ul style="list-style-type: none"> 🕒 Create Basic Task... 🕒 Create Task... 🕒 Import Task... 📅 Display All Running Tasks 📅 Disable All Tasks History 📁 New Folder... View ▶ 🔄 Refresh 🔍 Help
<p>Enter a name for the scheduled task.</p> <p>Next</p>	 <p>Create Basic Task Wizard</p> <p>🕒 Create a Basic Task</p> <p>Create a Basic Task Use this wizard to quickly schedule a common task. For more advanced options or settings such as multiple task actions or triggers, use the Create Task command in the Actions pane.</p> <p>Trigger</p> <p>Action Name: PS RoomSigning RSD1</p> <p>Finish Description:</p> <p>< Back Next > Cancel</p>
<p>Choose Daily, Next</p>	 <p>Create Basic Task Wizard</p> <p>🕒 Task Trigger</p> <p>Create a Basic Task When do you want the task to start?</p> <p>Trigger</p> <p>Action</p> <p>Finish</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Daily <input type="radio"/> Weekly <input type="radio"/> Monthly <input type="radio"/> One time <input type="radio"/> When the computer starts <input type="radio"/> When I log on <input type="radio"/> When a specific event is logged <p>< Back Next > Cancel</p>

Choose any start time, could be just before business day, for 24/7 display start time doesn't matter.

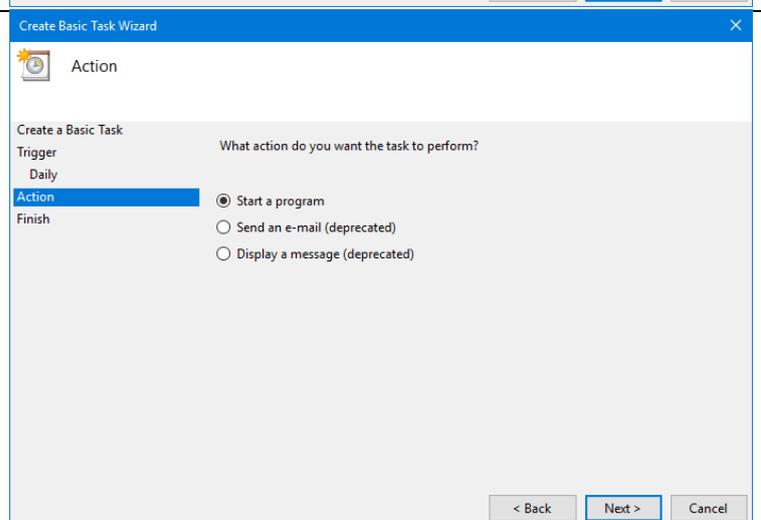
Next.



Action

Start a program

Next.



Browse to the powershell.exe in the folder:
C:\Windows\System32\Windows PowerShell\v1.0

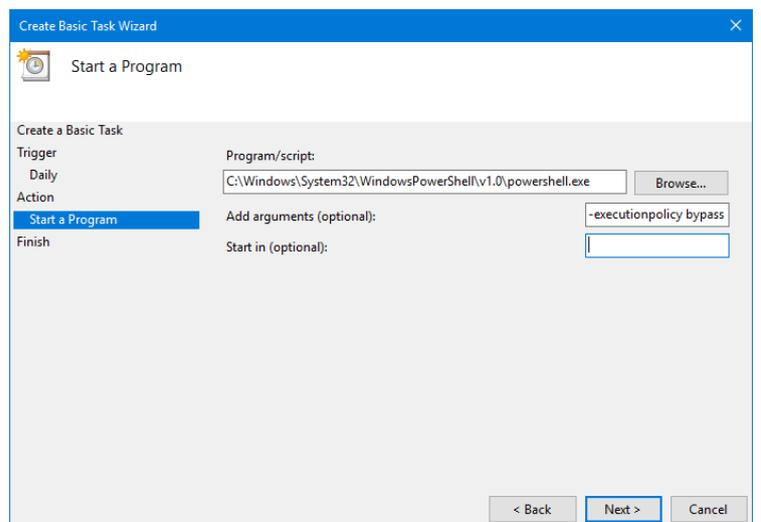
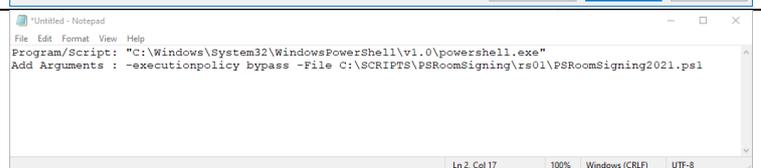
In the Add Arguments type these parameters

-executionpolicy bypass -File

Followed by the full path to the script.

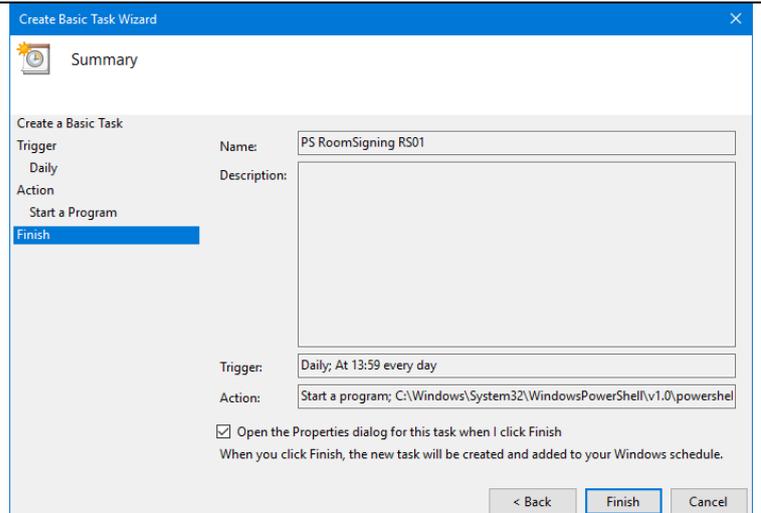
TIP: I usually prepare the paths and parameters in notepad see screenshot. That helps in getting the commands and arguments in first time right.

Next.



Enable "Open the Properties ..."

Finish.

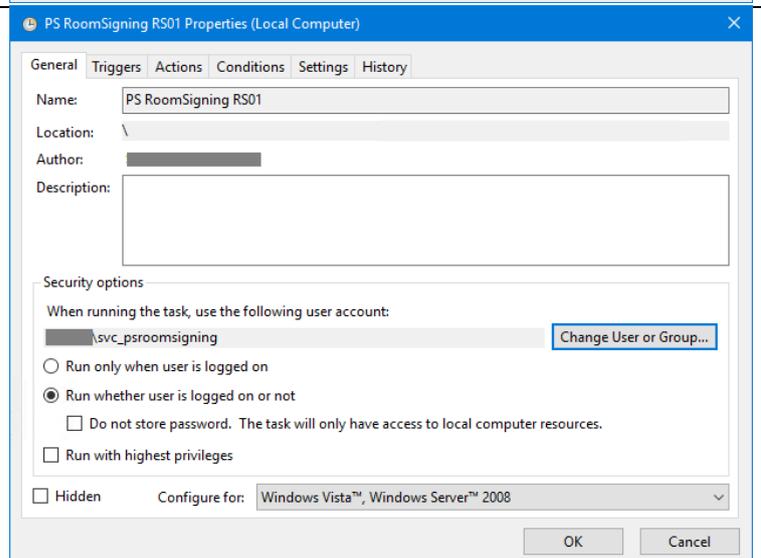


If you want to change the service account click "Change User or Group."

Change the radio buttons to:

"Run whether user is logged on or not"

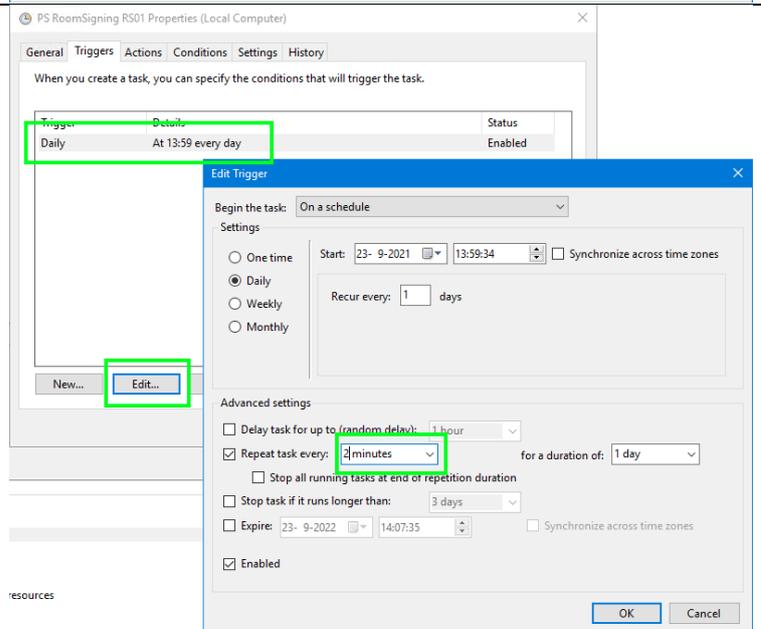
Highest privileges should not be necessary.



Click on the Triggers TAB, select the Daily, click Edit... and enable "Repeat task every:"

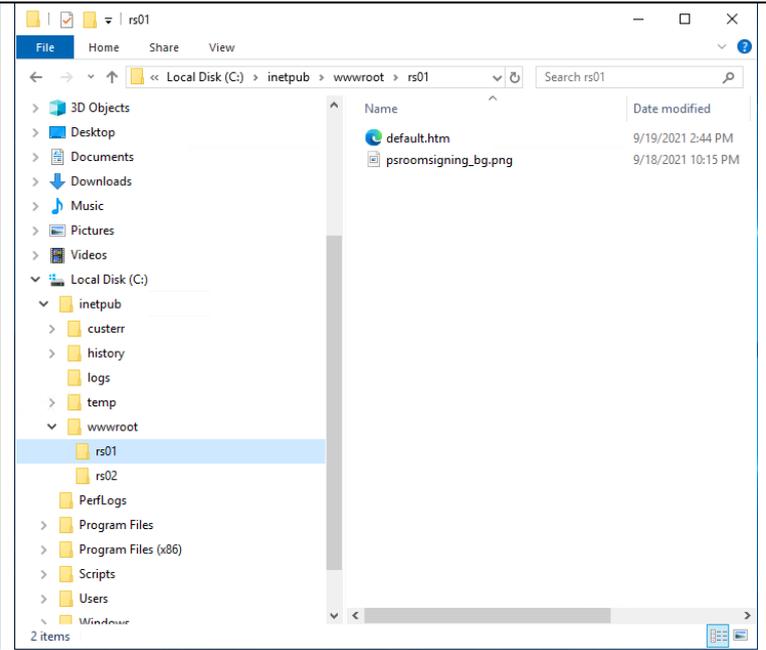
Change the selection to 5 minutes and if you want you can change it even lower to 2 minutes.

Keep clicking OK until all settings are saved. If prompted enter the service account password.



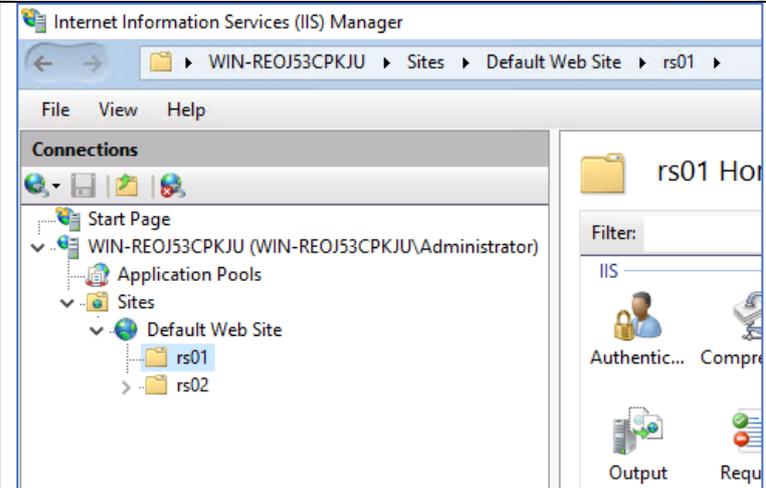
After at least one successful run the folder should look like this.

default.htm
psroomsigning_bg.png



Your IIS Managed could look like this:

Make sure you comply to you company security policies for webserver like using a certificate for https.

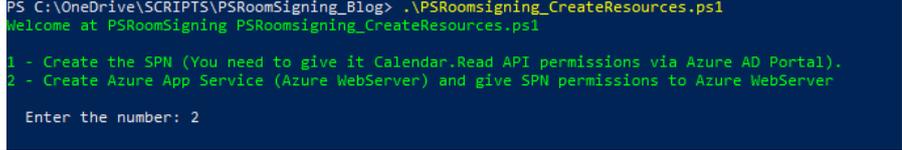
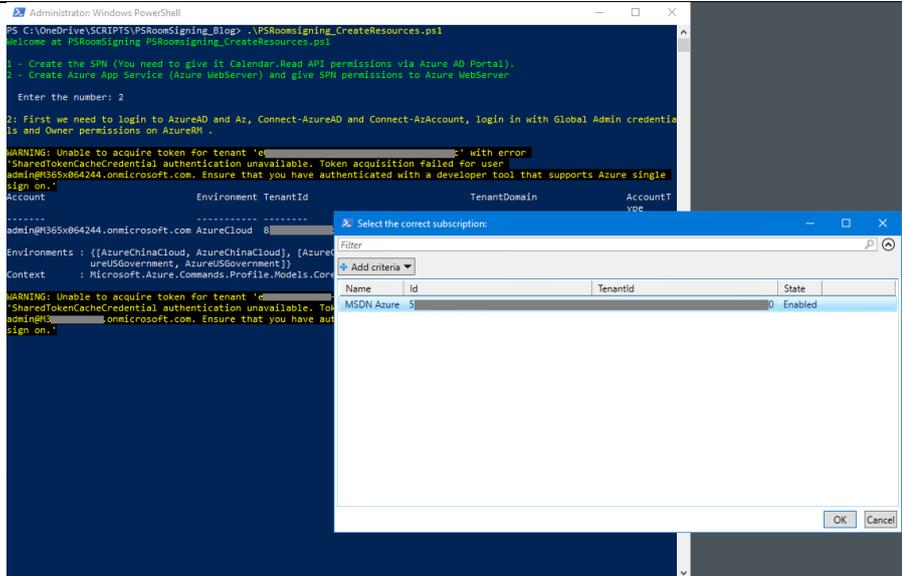
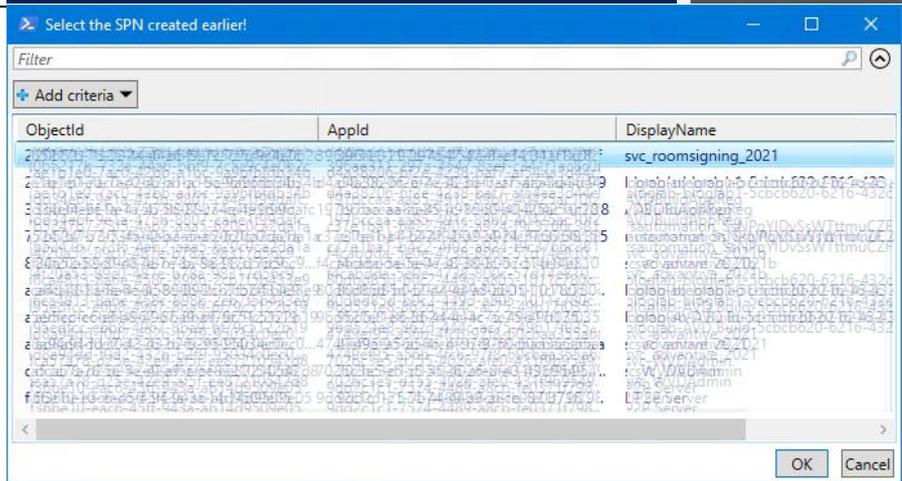


Install on Azure

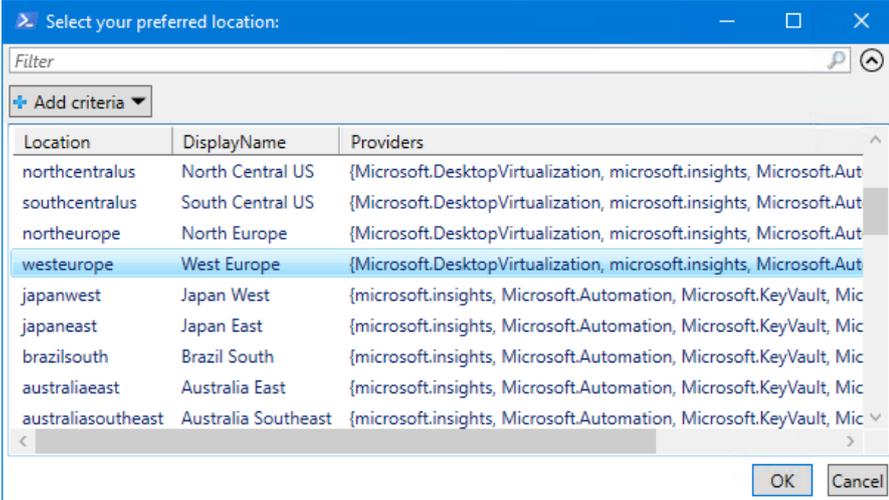
This chapter describes the entire process of running and hosting the script and webserver in Azure. You need the same set of files but different configuration parameters.

You need a Windows computer to configure the parts, so first create the SPN as described in “Create SPN in Azure AD” in the Preparations chapter.

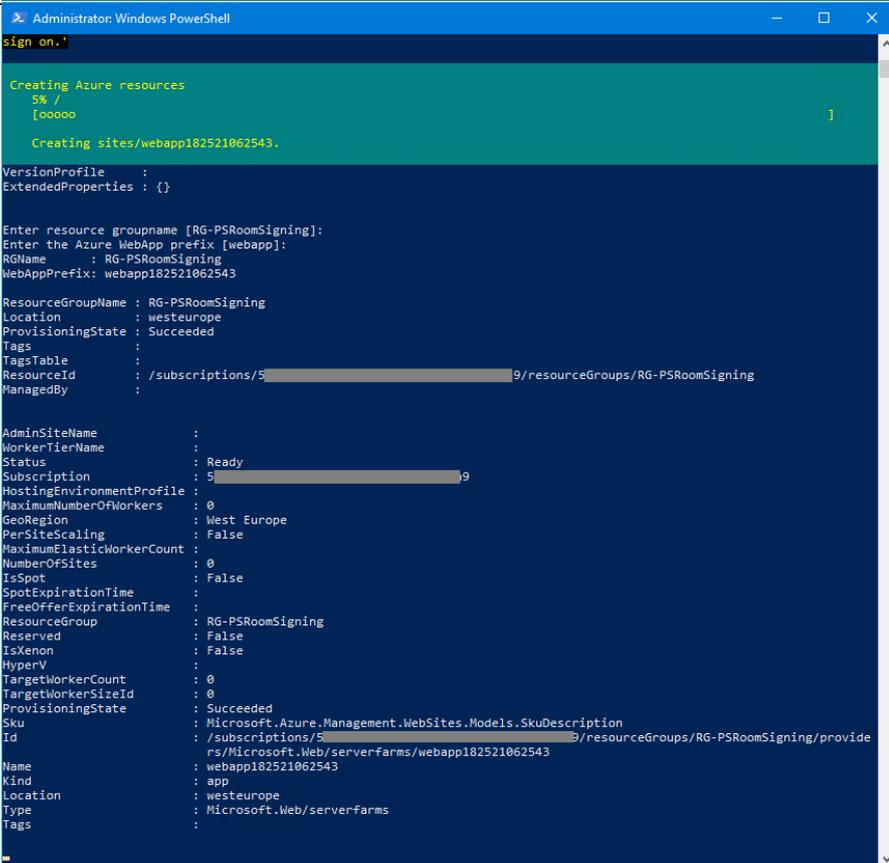
On the Windows computer you created the SPN run the PSRoomSigning_CreateResources.ps1 script again.

<p>Run the script again. Choose option 2.</p>	 <pre>PS C:\OneDrive\SCRIPTS\PSRoomSigning_Blog> .\PSRoomSigning_CreateResources.ps1 Welcome at PSRoomSigning PSRoomSigning_CreateResources.ps1 1 - Create the SPN (You need to give it Calendar.Read API permissions via Azure AD Portal). 2 - Create Azure App Service (Azure WebServer) and give SPN permissions to Azure WebServer Enter the number: 2</pre>									
<p>Select the correct Azure Subscription</p>	 <pre>2: First we need to login to AzureAD and Az, Connect-AzureAD and Connect-AzAccount, login in with Global Admin credentials and Owner permissions on AzureRM . WARNING: Unable to acquire token for tenant 'id' with error 'SharedTokenCacheCredential authentication unavailable. Token acquisition failed for user admin@365x864244.onmicrosoft.com. Ensure that you have authenticated with a developer tool that supports Azure single sign on.' Environment TenantId Account ----- admin@365x864244.onmicrosoft.com AzureCloud Environments : {[AzureChinaCloud, AzureChinaCloud], [AzureUSGovernment, AzureUSGovernment]} Context : Microsoft.Azure.Commands.Profile.Models.Core WARNING: Unable to acquire token for tenant 'id' with error 'SharedTokenCacheCredential authentication unavailable. Tok admin@365x864244.onmicrosoft.com. Ensure that you have au sign on.'</pre>									
<p>Select the SPN created earlier.</p>	 <table border="1"> <thead> <tr> <th>Objectid</th> <th>AppId</th> <th>DisplayName</th> </tr> </thead> <tbody> <tr> <td>20018017-73524686-89495239-927b78909616070475-875628-ef4791fba881-...</td> <td>80000000-0000-0000-0000-000000000000</td> <td>svc_roomsigning_2021</td> </tr> <tr> <td>...</td> <td>...</td> <td>...</td> </tr> </tbody> </table>	Objectid	AppId	DisplayName	20018017-73524686-89495239-927b78909616070475-875628-ef4791fba881-...	80000000-0000-0000-0000-000000000000	svc_roomsigning_2021
Objectid	AppId	DisplayName								
20018017-73524686-89495239-927b78909616070475-875628-ef4791fba881-...	80000000-0000-0000-0000-000000000000	svc_roomsigning_2021								
...								

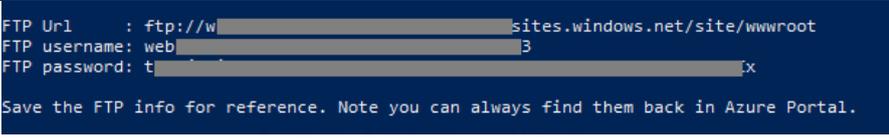
Select the Azure location.



Enter resource group name and the WebApp prefix and let the script create the resources.

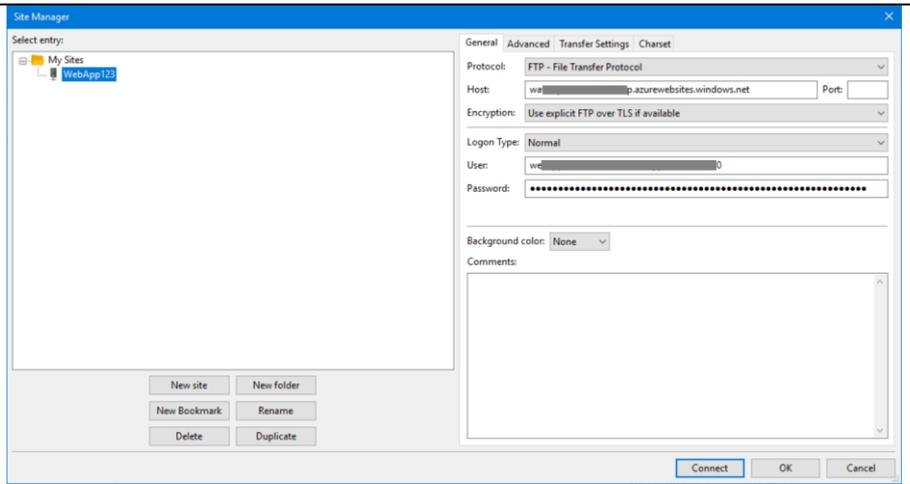


FTP credentials are displayed you can save them for future reference.



On the Windows Computer install any FTP client and enter the FTP credentials.

In the screenshot you see File Zilla.

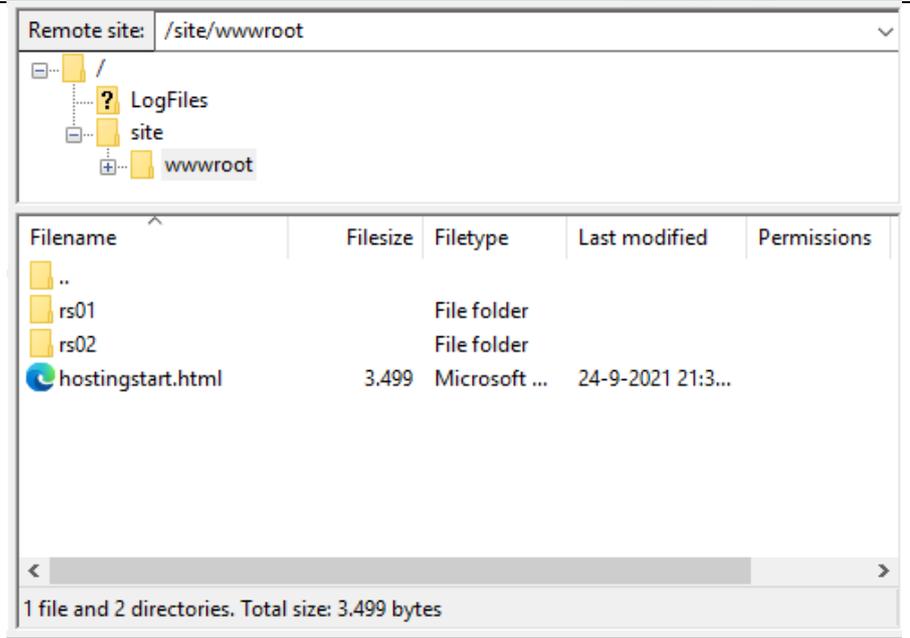


On the FTP folder, browse to /site/wwwroot and create one or more subfolders for the different PSRoomSigning instances.

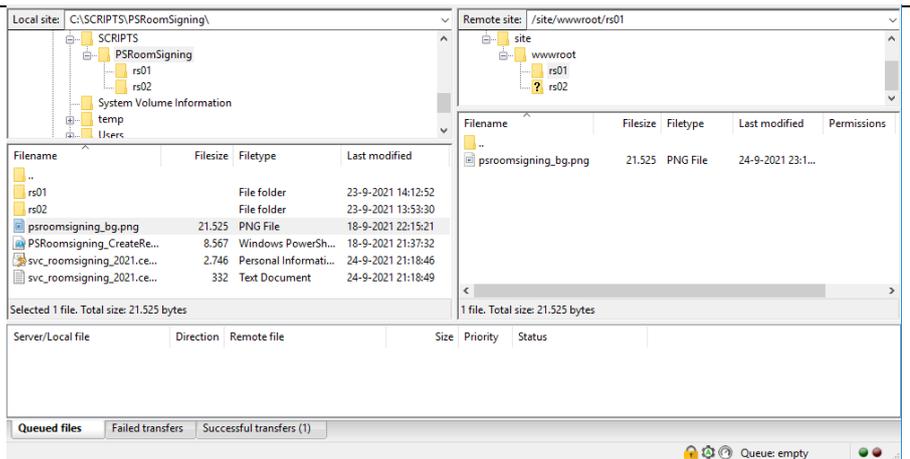
In the screenshot you see:

.\rs01
.\rs02

You can delete the hostingstart.html it is not required.

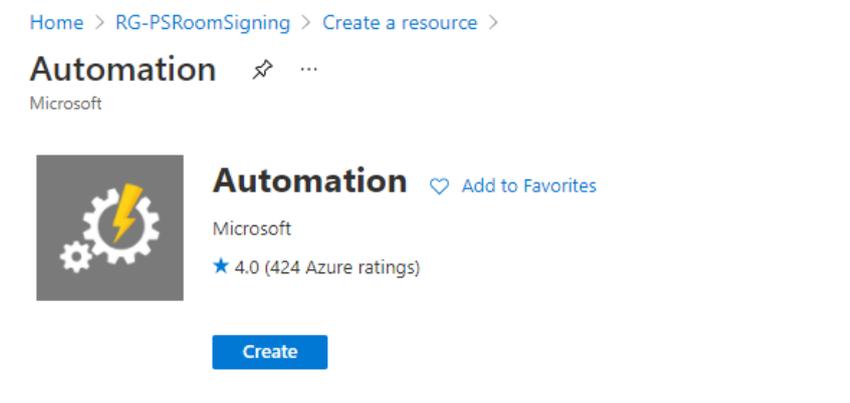
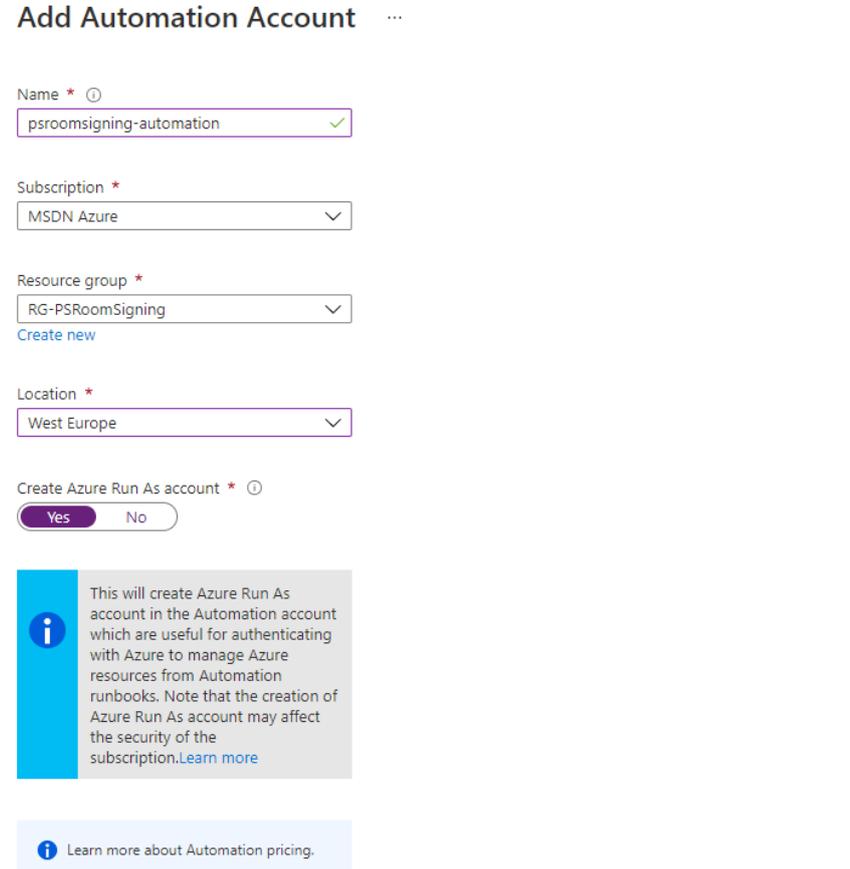
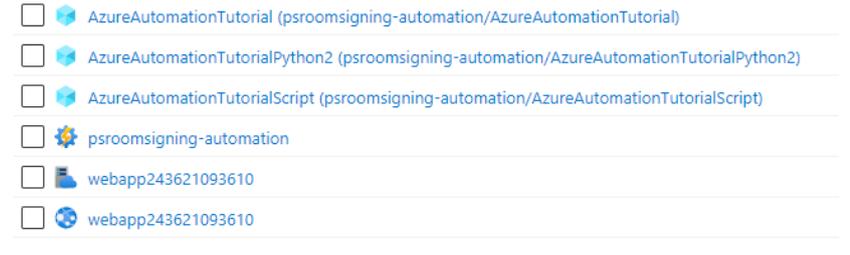


Use the FTP client to upload the background picture to the corresponding folders.



Configure the Automation

In this section we will create and configure Azure Automation PowerShell RunBooks. Login to Azure Portal with enough permissions to create new resources. I will create the new resources in the Resource Group created earlier with the script. RG-PSRoomSigning.

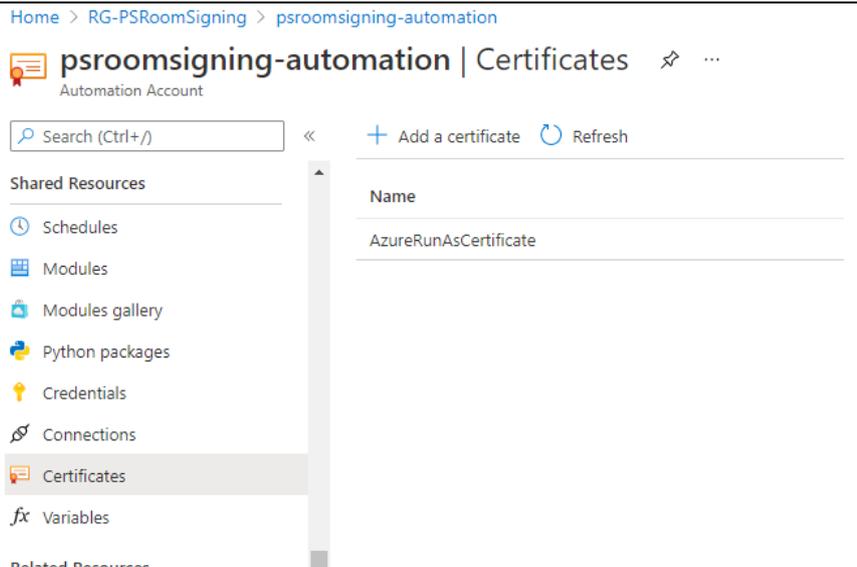
<p>From the resource group click Create, search for Automation, and click Create.</p>	
<p>Enter the required information.</p> <p>Create Azure Run As Account: YES</p> <p>Click Create at the bottom.</p>	
<p>Your resource group contents will look something like this.</p>	

Click on psroomsigning-automation.

On the Shared Resources section click Certificates.

(You need to scroll down for this)

Click on Add a certificate.

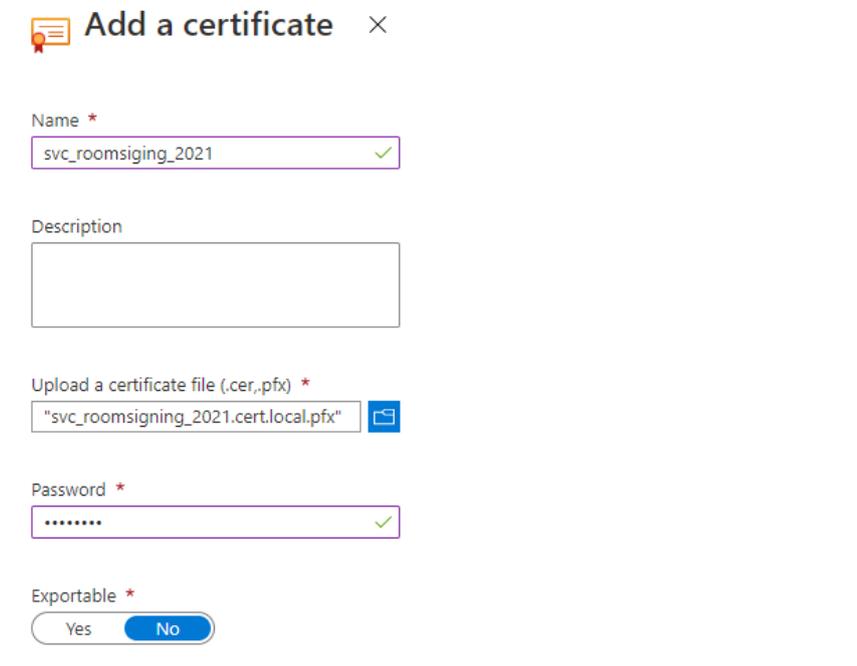


Browse to the location where you ran the PSRoomSignin_CreateResources.ps1 script, in that folder you should find a PFX file that contains the authentication certificate for the SPN.

Enter the password of the PFX and select NO for exportable.

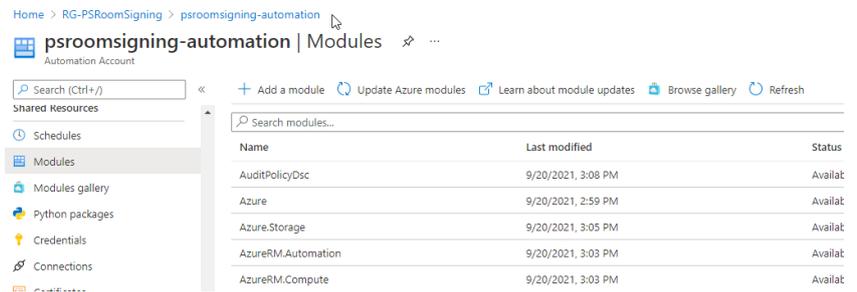
Note keep this certificate in a safe place.

On the bottom click create.



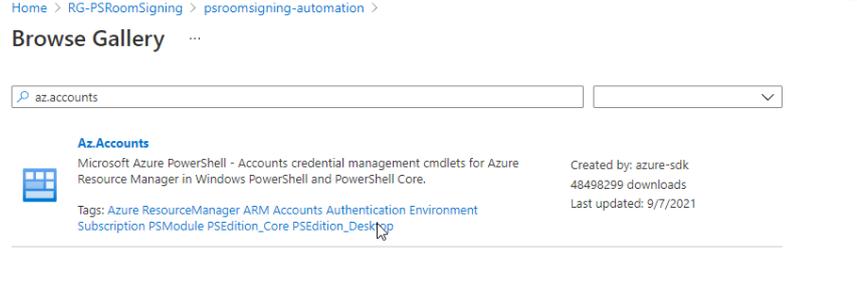
On the Shared Resources section click Modules.

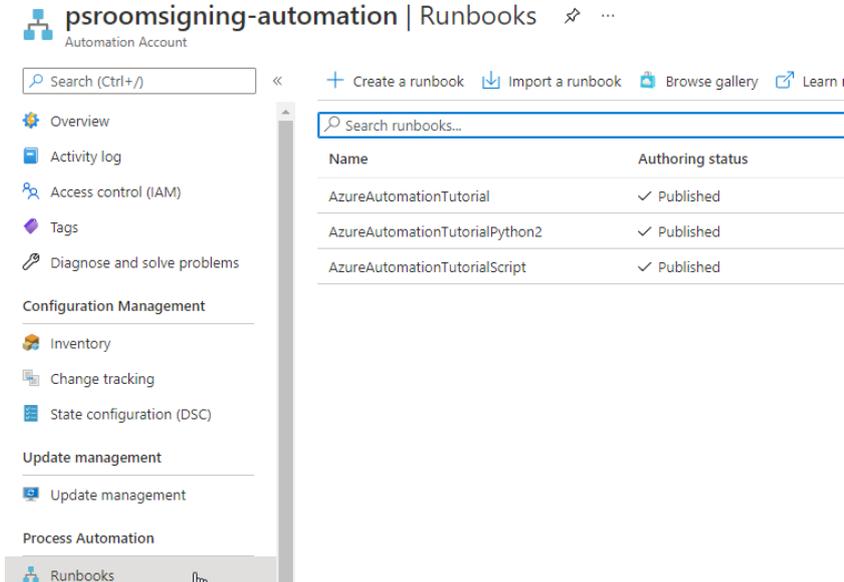
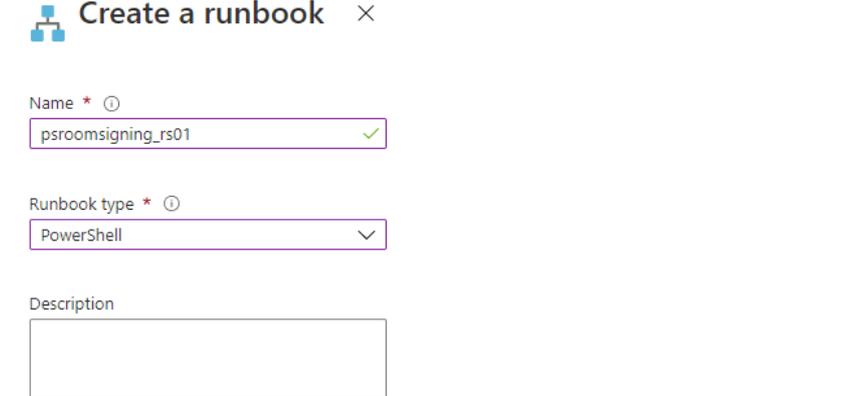
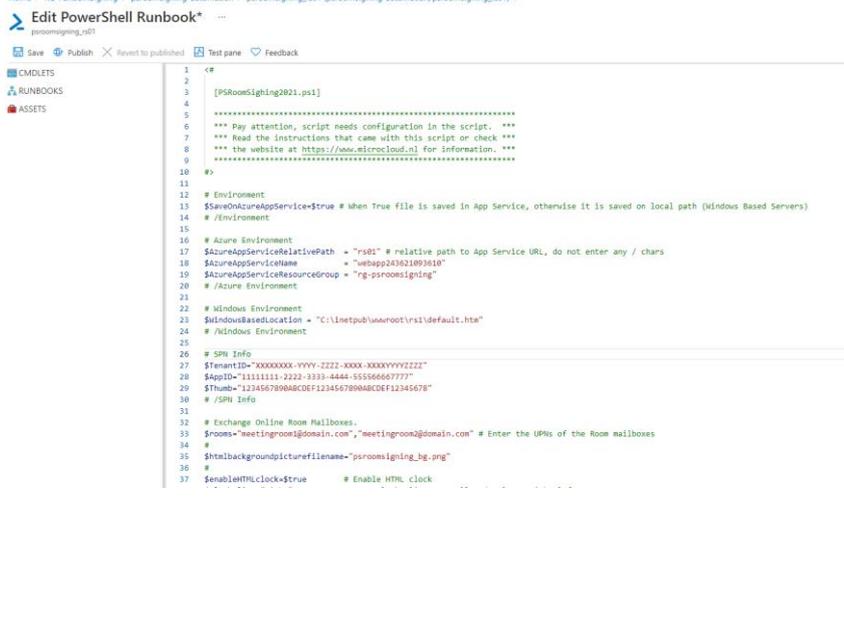
Click Browse gallery.

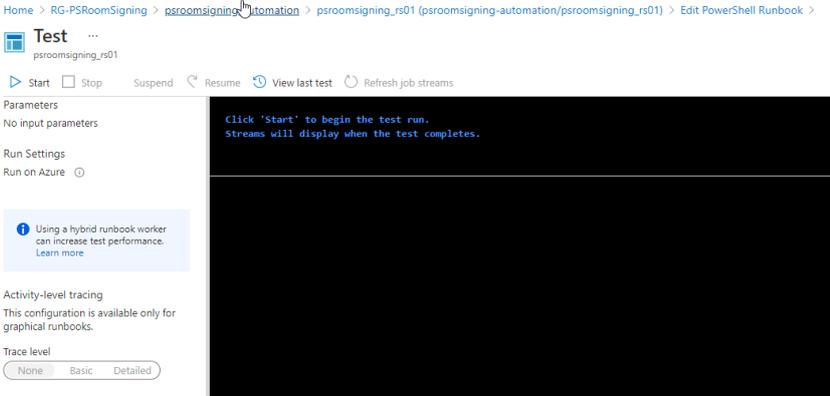
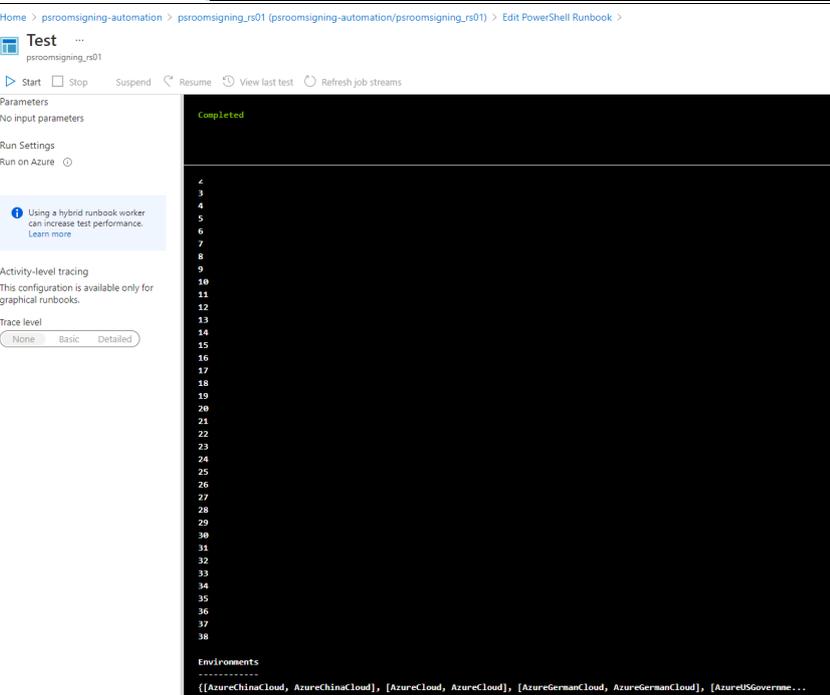


Search for and import these modules:

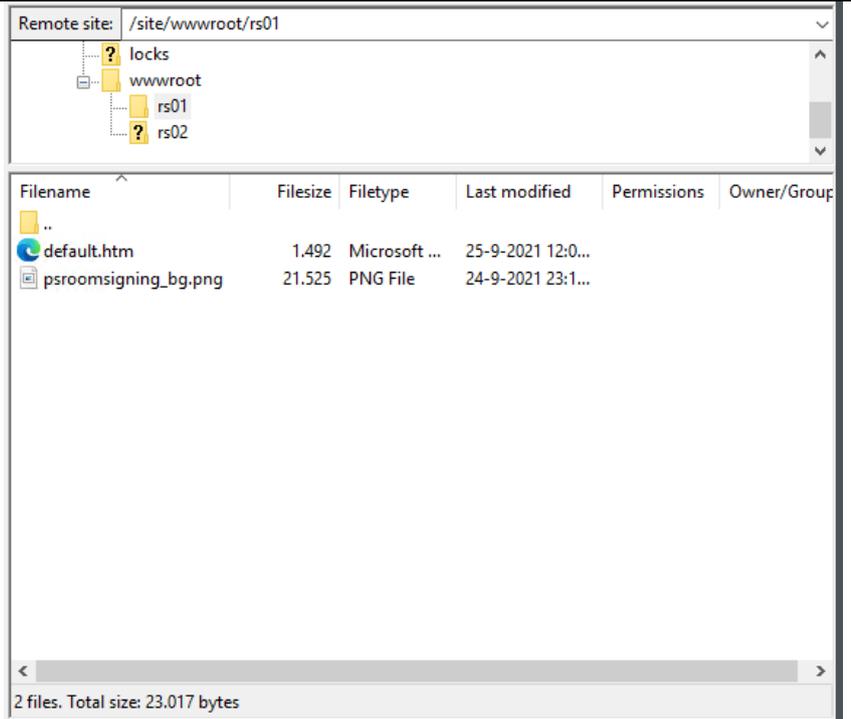
- Az.accounts
- Az.websites
- Microsoft.Graph.Authentication



<ul style="list-style-type: none"> • Microsoft.Graph.Calendar • Microsoft.Graph.Users 	<p>If you import them in this order, you should not have trouble with dependencies. If a dependency is already imported but still asks for it, the import is not finished yet.</p>
<p>Scroll back up and click on Runbooks.</p> <p>Click on Create a runbook</p>	
<p>Enter a name and select the runbook type: PowerShell</p> <p>On the bottom click Create.</p>	
<p>Copy/Paste the PSRoomSigning.ps1 file.</p> <p>In the Edit PowerShell Runbook change the parameters you want to change.</p> <p>Check the "Configuration in PowerShell script" section in the Preparations chapter.</p> <p>Make sure you enter the correct SPN info, and the Azure Environment resources.</p>	

<p>Click Save</p> <p>Click the Test pane to test the script.</p>	
<p>In the test pane, click Start.</p>	
<p>The result should look something like this.</p> <p><i>If you get errors, check the SPN info in the script, check the certificate and de API permissions of the SPN.</i></p> <p><i>Also check if all required PowerShell modules are imported.</i></p>	

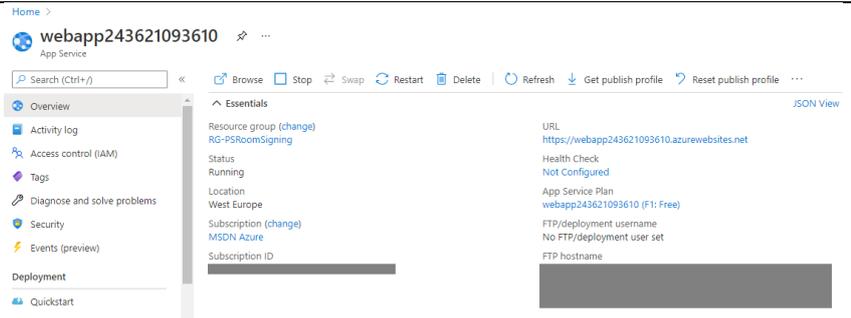
After the test you should see the default.htm in the wwwroot/rs01 folder.



Test Azure App Service

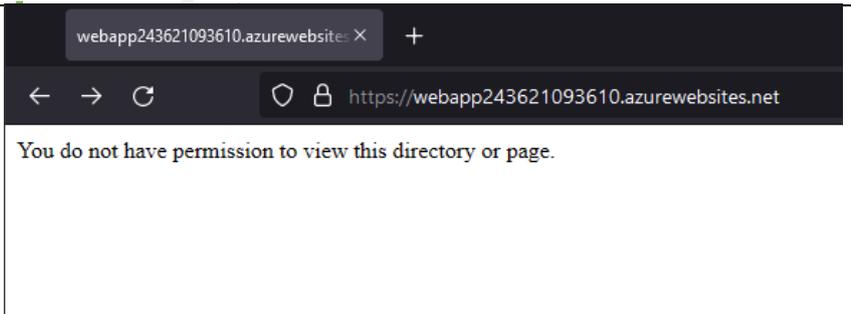
In Azure portal, browse to you App Service object.

You can copy out the URL from this page or click Browse to open the website in your browser.

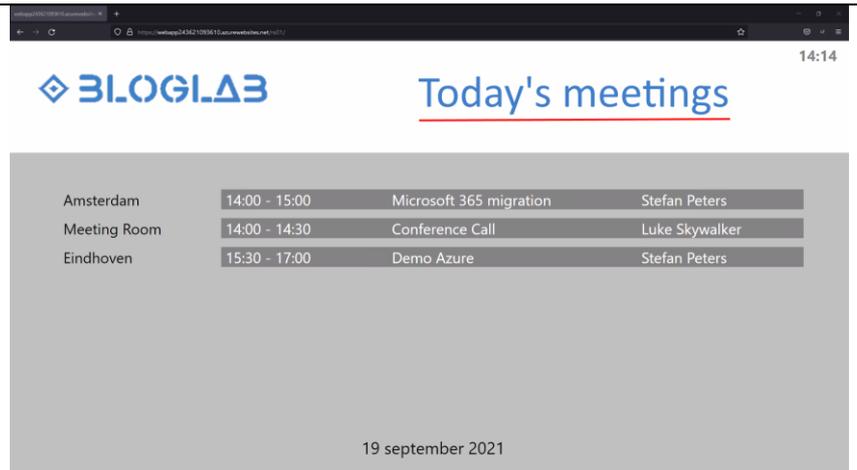


If you have deleted the hostingstart.html file you will get this error.

Add the /rs01 to the url and check again!



When you add the /rs01 the default.htm and background should be visible.



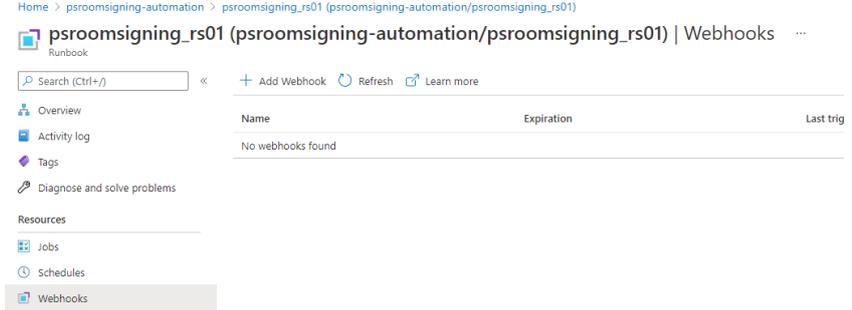
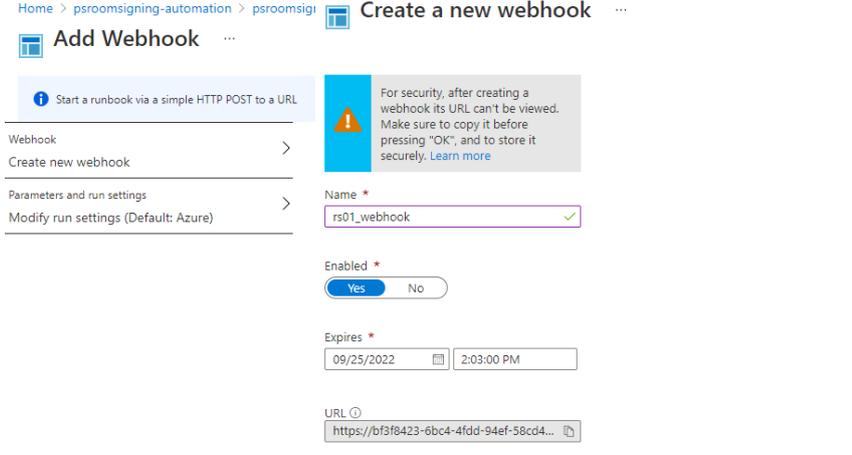
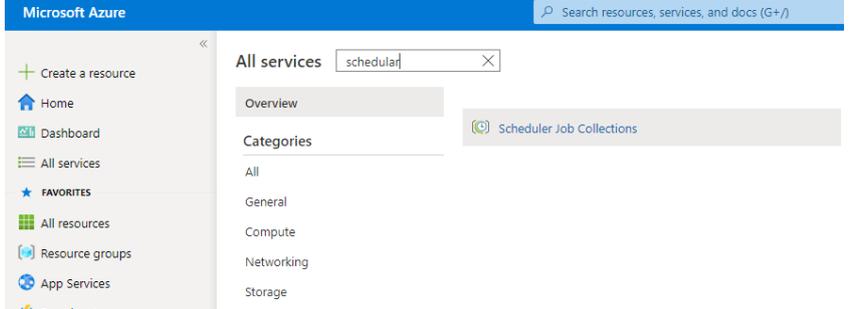
If the webpage is as expected you need to publish the script.

Go back to Edit PowerShell Runbook and click on Publish. Click yes to confirm.



Azure Scheduler

Although the Automation account allows scheduling the frequency is too long (minimum is 1 hour). I recommend running the script every 2-5 minutes. Please adjust this to your needs.

<p>In Azure Portal go to your psroomsigning_rs01 runbook, in the Resources section click Webhooks and click Add Webhook.</p>	
<p>Name the Webhook, enable it and choose an expire date.</p> <p>Make sure you copy the URL and paste it somewhere safe; it will not be shown again.</p> <p>Click Create in the Add Webhook section.</p>	
<p>On the left menu click All Services and search for Scheduler</p> <p>Click the Scheduler Job Collections.</p>	

Select the resource group of your RoomSigning components.

RG-PSRoomSigning

Type: Consumption

Name the logic app and select your region.

Next.

Create Logic App ...

Basics Tags Review + create

Create a logic app, which lets you group workflows as a logical unit for easier management, deployment and sharing of resources. Workflows let you connect your business-critical apps and services with Azure Logic Apps, automating your workflows without writing a single line of code.

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ ▼

Resource Group * ⓘ ▼ [Create new](#)

Instance Details

Type * Consumption Standard
 Looking for the classic consumption create experience? [Click here](#)

Logic App name * ✓

Region * ▼

Enable log analytics * Yes No

⚠ There are no log analytics workspace resources in the selected subscription. In order to enable log analytics, either create a new log analytics workspace resource or switch to a subscription which already has one.

Click Create on the bottom of the page.

Create Logic App ...

Basics Tags Review + create

Summary



Details

Subscription	5
Resource Group	RG-PSRoomSigning
Name	logicapp_psroomsigning
Region	westeurope
Log analytics	Disabled

When object is created click on Goto resource.

Find the trigger "Recurrence"

Click on it.

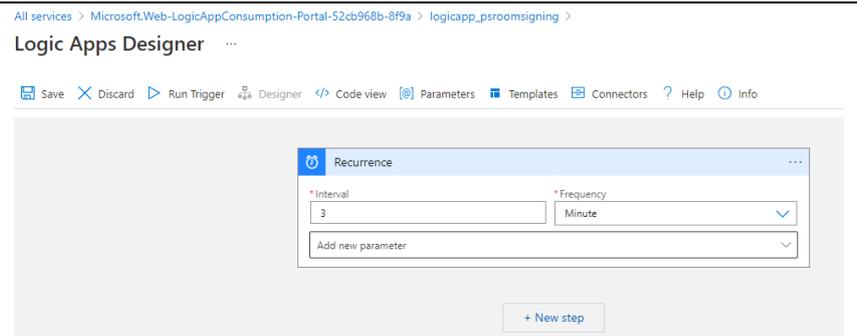
Start with a common trigger
Pick from one of the most commonly used triggers, then orchestrate any number of actions using the rich cc

	When a message is received in a Service Bus queue		When a HTTP request is received
	Recurrence		When a new email is received in Outlook.com

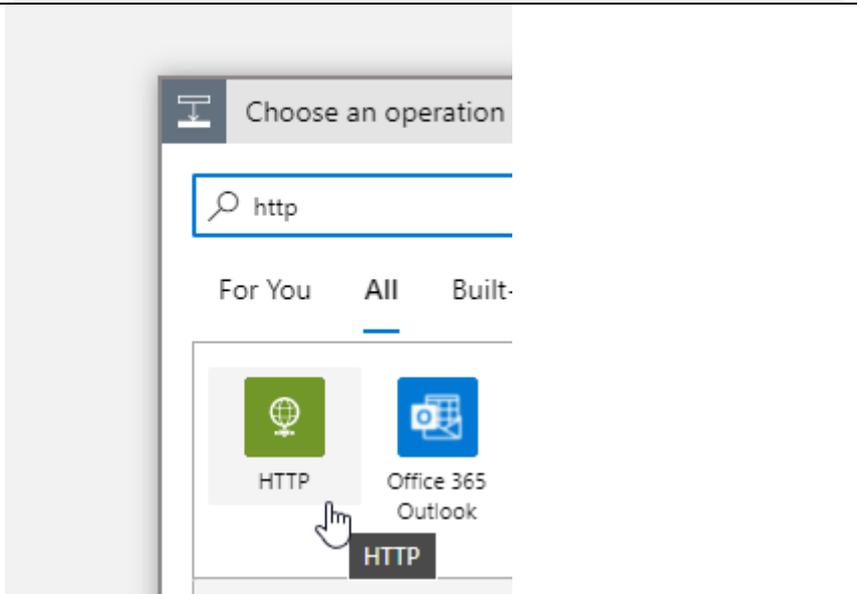
Default interval is 3 minutes.

Change to your requirements.

Click on New step.



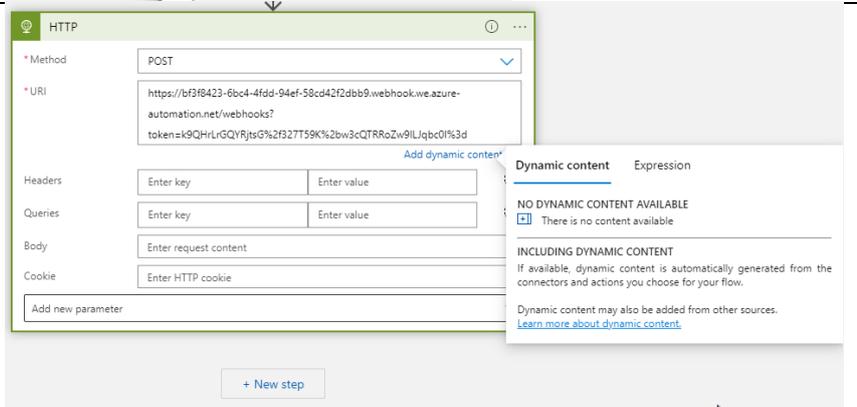
Search for HTTP and select the default green HTTP button.



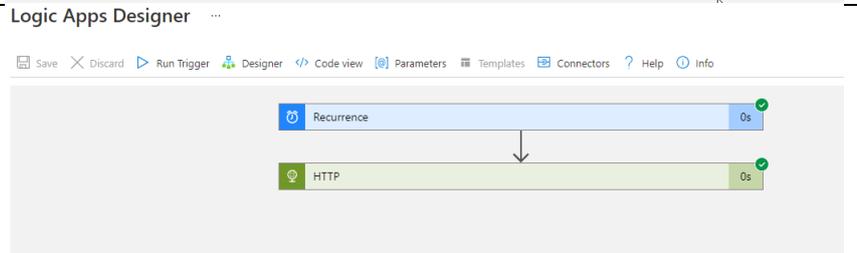
Select method: POST

Paste the Webhook URL in the URI part.

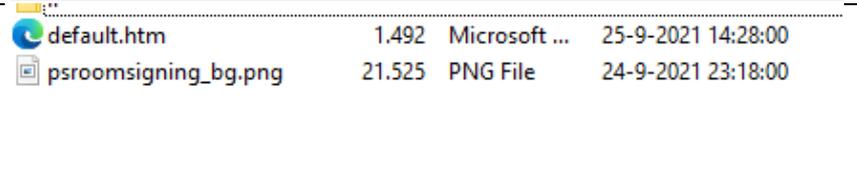
Click on Save.



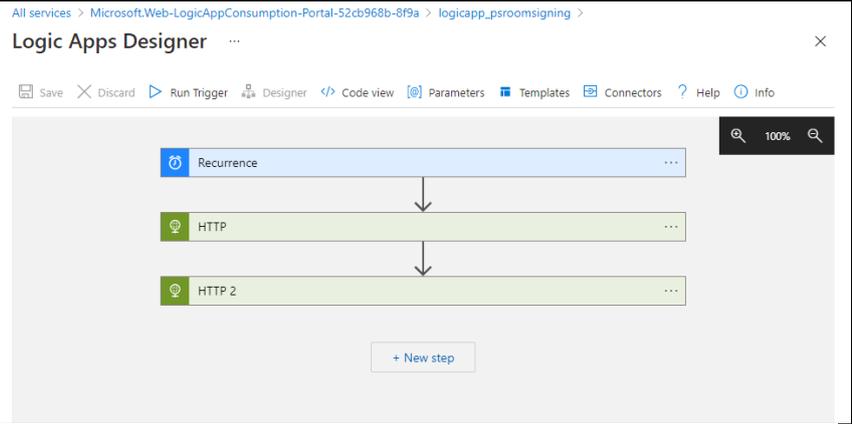
To test if it works click on Run Trigger.



Check the FTP folder if the timestamp of default.html has changed. If it did the trigger works!



If you host multiple RoomSigning instances as Runbook you can add more Webhook HTTP POSTS in the same logic app, they will run on the same interval.



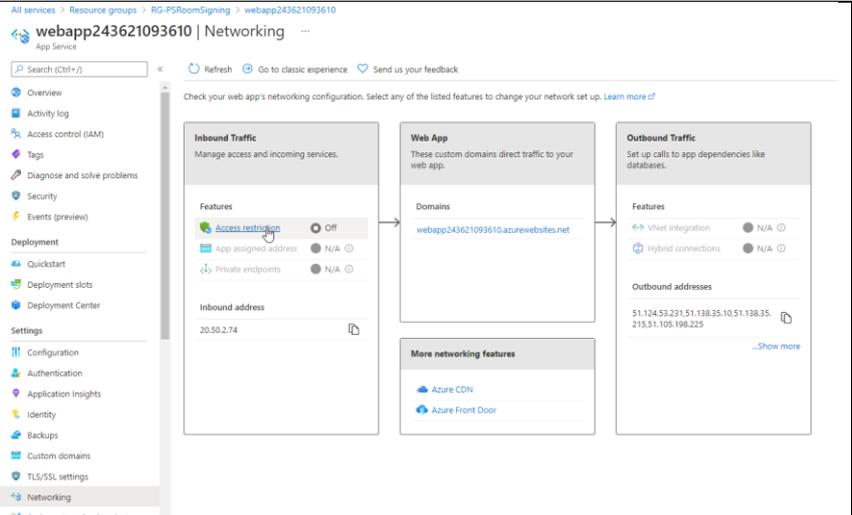
PUBLIC Visibility

If you followed the instructions, you have an Azure App Service that will host your HTML files for the PSRoomSigning. By default, the web service is open for the entire world to be viewed. You can change this by following the next steps.

In Azure Portal browse to your App Service.

In the Setting section click on "Networking"

Next click on Access restriction.



Click on Add rule

Name the rule, give it a priority number, and add your PUBLIC IP of your Office breakout internet.

Click Add rule.

Add as many PUBLIC IP rules as you need.

All services > Resource groups > RG-PSRoomSigning > webapp243621093610 >

Access Restrictions

Remove Refresh

Access restrictions allow you to define lists of allow/deny rules to control traffic to your app. Rules are evaluated in priority order. If there are no rules defined then your app will accept traffic from any address. [Learn more](#)

webapp243621093610.azurewebsites.net webapp243621093610.scm.azurewebsites.net

+ Add rule

Priority	Name	Source	Endpoint status	HTTP headers	Action
<input type="checkbox"/> 1	Allow all	Any	Not configured	Not configured	Deny

General settings

Name

Action Allow Deny

Priority *

Description

Source settings

Type

IP Address block *

HTTP headers filter settings

X-Forwarded-Host

X-Forwarded-For

X-Azure-FDID

X-FD-HealthProbe

Add rule

After creating this rule an implicit Deny is added automatically.

All services > Resource groups > RG-PSRoomSigning > webapp243621093610 >

Access Restrictions

Remove Refresh

Access restrictions allow you to define lists of allow/deny rules to control traffic to your app. Rules are evaluated in priority order. If there are no rules defined then your app will accept traffic from any address. [Learn more](#)

webapp243621093610.azurewebsites.net webapp243621093610.scm.azurewebsites.net

+ Add rule

Priority	Name	Source	Endpoint status	HTTP headers	Action
<input type="checkbox"/> 300	OfficeOnly	80.1.1.1/32	Not configured	Not configured	<input checked="" type="radio"/> Allow
<input type="checkbox"/> 2147483647	Deny all	Any	Not configured	Not configured	<input checked="" type="radio"/> Deny

Create new rule
Successfully added new rule

Click on the web243.scm.*** section and enable "same restrictions as web***"

All services > Resource groups > RG-PSRoomSigning > webapp243621093610 >

Access Restrictions

Remove Refresh

Access restrictions allow you to define lists of allow/deny rules to control traffic to your app. Rules are evaluated in priority order. If there are no rules defined then your app will accept traffic from any address. [Learn more](#)

webapp243621093610.azurewebsites.net webapp243621093610.scm.azurewebsites.net

Same restrictions as webapp243621093610.azurewebsites.net

Configure your display devices

You could use any device that can display this website like Linux, Android, or Windows.

Suggestions:

- Old tablet that connects via WiFi to the webserver.
- Old PC connected to a TV mounted on the lunchroom wall of your office.

You can also distribute the URL to your users or embed it on your intranet so your users can quickly check if any meeting room is busy or not.

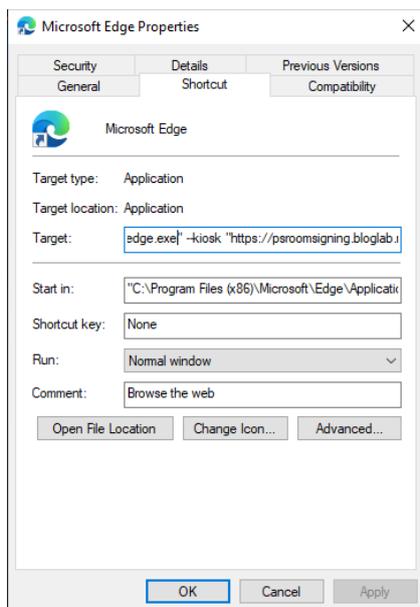
Windows 10 Client configuration

In the real world I have configured a Windows 10 client to autologin and autostart a webbrowser with a special parameter to show the PSRoomSigning page. My favorite browser for this is Microsoft Edge Chromium but any modern browser should work. For a Windows 10 client create a shortcut to the EXE file of Microft Edge Chromium or copy the default shortcut to your startup folder.

Change the target with this line:

```
"C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --kiosk "https://psroomsigning.bloglab.nl/rs01" --edge-kiosk-type=fullscreen
```

The kiosk parameters will autostart the browser fullscreen and lock the user interface of the browser. It can only be stopped with ALT-F4 😊



Example of the properties of the shortcut.

End of document.