# 1 Introduction

This document provides a detailed walkthrough of steps required to deploy Virtual Health. The deployment guide explains the deployment of following components.

| Component Name | Component Description | Component Type |
|---|---|---|
| **HealthCare.Portal** | Virtual Health Web App | Web App |
| **SharePoint assets** | SharePoint artifacts | SharePoint Site |
| **VHCBot** | Virtual Health BOT for Scheduling | Web App |

# 2 System Requirements

## 2.1 Office 365 Plan Requirements

It is recommended to use Office 365 Enterprise E3 and above

E3 Plan details are available here:
https://products.office.com/en-us/business/office-365-enterprise-e3-business-software

Other plans:
http://office.microsoft.com/en-us/business/compare-all-office-365-for-business-plans-FX104051403.aspx

## 2.2 Azure Subscription

The Virtual Health Templates requires an Azure subscription to host the following services

- Website/Web App
- Application Insight
- Key vault
- Azure table

### 2.2.1 Minimum Azure Web App Configuration

The Virtual Health web apps need at least a Standard configuration to cater the needs of pilot. However, it can be scaled out as per the application need.

<table>
<tr><th>Configuration</th><th>Details</th></tr>
<tr><td>Mode – Standard<br><br>Instances – A single instance in Shared or Standard mode already benefits from high availability, but you can provide even greater throughput and fault tolerance by running additional web site instances. In Standard mode, you can choose from 1 through 10 instances, and if you enable the Auto scale feature, you can set the minimum and maximum number of virtual machines to be used for automatic scaling.<br><br>http://www.windowsazure.com/en-us/documentation/articles/web-sites-scale/</td><td>Web Sites Standard (Promotional Pricing): The Standard tier offers multiple instance sizes as well as scaling to meet changing capacity needs. Prices for Standard are as follows:<br><br>
<table>
<tr><th>SIZE</th><th>CPU CORES</th><th>MEMORY</th><th>PRICE PER HOUR</th></tr>
<tr><td>Small</td><td>1</td><td>1.75 GB</td><td>$0.10<br>(~$74 / month)</td></tr>
<tr><td>Medium</td><td>2</td><td>3.5 GB</td><td>$0.20<br>(~$149 / month)</td></tr>
<tr><td>Large</td><td>4</td><td>7 GB</td><td>$0.40<br>(~$298 / month)</td></tr>
</table>
<br>Note: Refer to the below link to know more about the pricing models: http://www.windowsazure.com/en-us/pricing/details/web-sites/</td></tr>
</table>

### 2.2.2 Software Requirements

Since the services will be deployed in Azure PaaS, there is no separate software requirements

# 3 Prerequisites

The following prerequisites are important for the virtual health application

| Office 365 | Details |
|---|---|
| **Plan** | Purchase Office 365 Enterprise E3 plan:<br>https://products.office.com/en-us/business/office-365-enterprise-e3-business-software<br><br>Other plans:<br>http://office.microsoft.com/en-us/business/compare-all-office-365-for-business-plans-FX104051403.aspx |
| **Domain(Optional)** | Domain for Office 365<br>*This is optional for Virtual Health Deployment* |
| **Site Collection** | Provision a site collection for Virtual Health. Preferably Publishing site |

| Azure | Details |
|---|---|
| **Azure Subscription** | Azure subscriptions will host following services<br>• Website/Web App<br>• Application Insight<br>• Key vault<br>• Azure table |
| **SSL certificate** | SSL certificates are required for azure web sites and key vaults. It is recommended to have two CA issues SSL certificates for the domain<br>CA issued certificates are required for Trusted Application Endpoint configuration and deployment |
| **Active Directory Integration** | Setup and synchronize existing Organization Active Directory on O365 portal<br>http://technet.microsoft.com/en-us/library/hh967642 |

| | |
|---|---|
| **Domain (Optional)** | Domain for azure website |
| **Azure Websites** | Provision Azure website for the Virtual Office Solution |
| **Application Insights** | Provision Application insights for the Virtual Office Solution |
| **Key Vault** | Provision a key vault for the Virtual Office Solution. This is optional |
| **User Account** | User should have access to provision and configure services in the Azure PaaS and should be site collection Administrator<br>• Azure Subscription Admin or similar Role<br>• Office 365 Site Collection Administrator |
| **Trusted Application Endpoint** | This application must be deployed as cloud service before the deployment of Virtual Health. Refer to link Trusted Application API |

## ☐ Before you proceed for Virtual Health deployment, You must deploy the **Trusted Application Endpoint**

| Truested Application EndPoint URL | Usages |
|---|---|
| **https://github.com/OfficeDev/skype-docs/tree/master/Skype/Trusted-Application-API/samples/AnonMeetingJoinSamples** | Download the AnonMeetingJoinSamples and deploy the sample as azure cloud service<br>Note down the https endpoint of the Cloud Service e.g. https://yourclouservice.com<br>This will be used in Web.Config of Virtual Health Portal (HealthCare.Portal) for key *TrustedApi*<br>`<!--Trusted API enpoint-->`<br>`<add key="TrustedApi" value="HTTPS_URI_TRUSTED_APP" />` |

## 3.1 Certificates Required for Deployment

Certificates required for deployment are given in the below table

| Certificate Type | Application | Purpose |
|---|---|---|
| **Self-signed or CA issued***<br><br>**Only required if Trusted Application is going to use certificated based authentication else client and secret flow should work fine* | Trusted Application Endpoints | This certificate will be used to setup the OAuth with Azure AD application |
| **CA issued***<br><br>**To access the cloud service, you need to host it over https. Hence you need a CA issued certficate* | Trusted Application – Cloud Service | This certificate will be required to configure the https endpoint for Cloud Service |
| **Self-Sign or CA Issues** | Key Vault Application | This certificate will be used to setup Key Vault application access. This certificate will be used in section 4.5 |

# 4 First time configuration

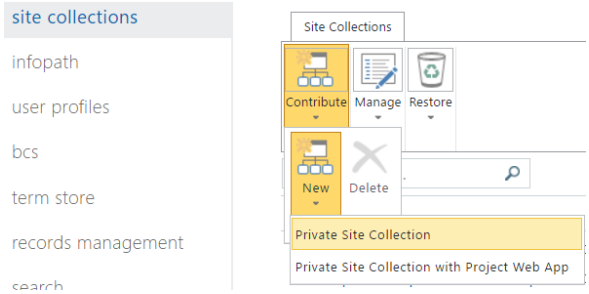
This section will provide steps to configure any new environment for the first time. This step is not required once the new environment is setup.

> Open a notepad or xml notepad to note down the configuration values as you go through this section. These configurations will be used during the deployment of the Web Apps

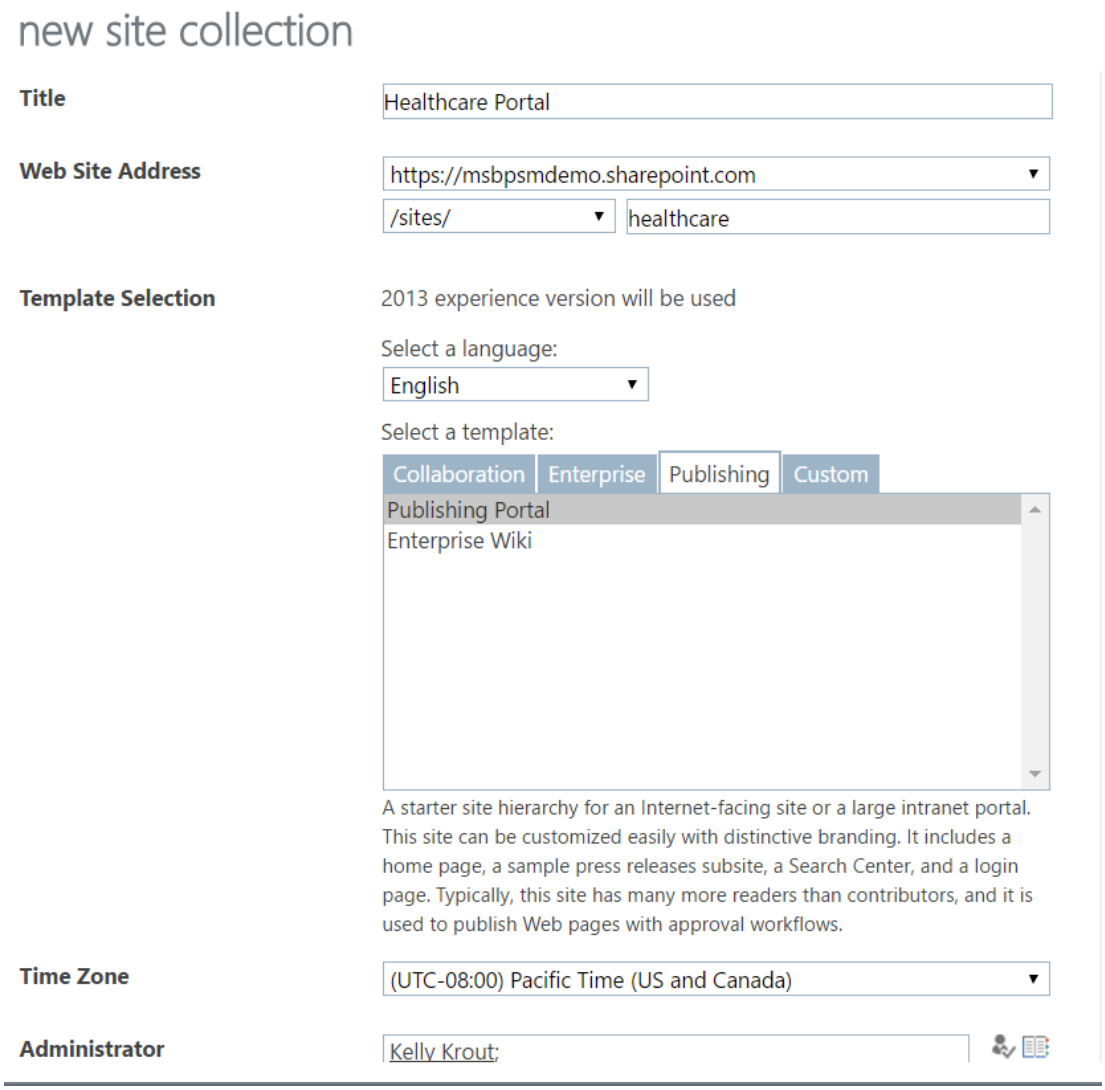
## 4.1 SharePoint Site Collection Provisioning

This section describes the steps required to provision a SharePoint site collection

A. Provision SharePoint site collection
   a. Sign in to the Office 365 admin center with your SharePoint Online admin user name and password
   b. Go to Admin > SharePoint
   c. Click on site collection tab
   d. Contribute → New → Private Site Collection




   e. Click on Private Site Collection
   f. Fill in the details as shown below




g. Click Ok
h. Note down the site collection URL in below format

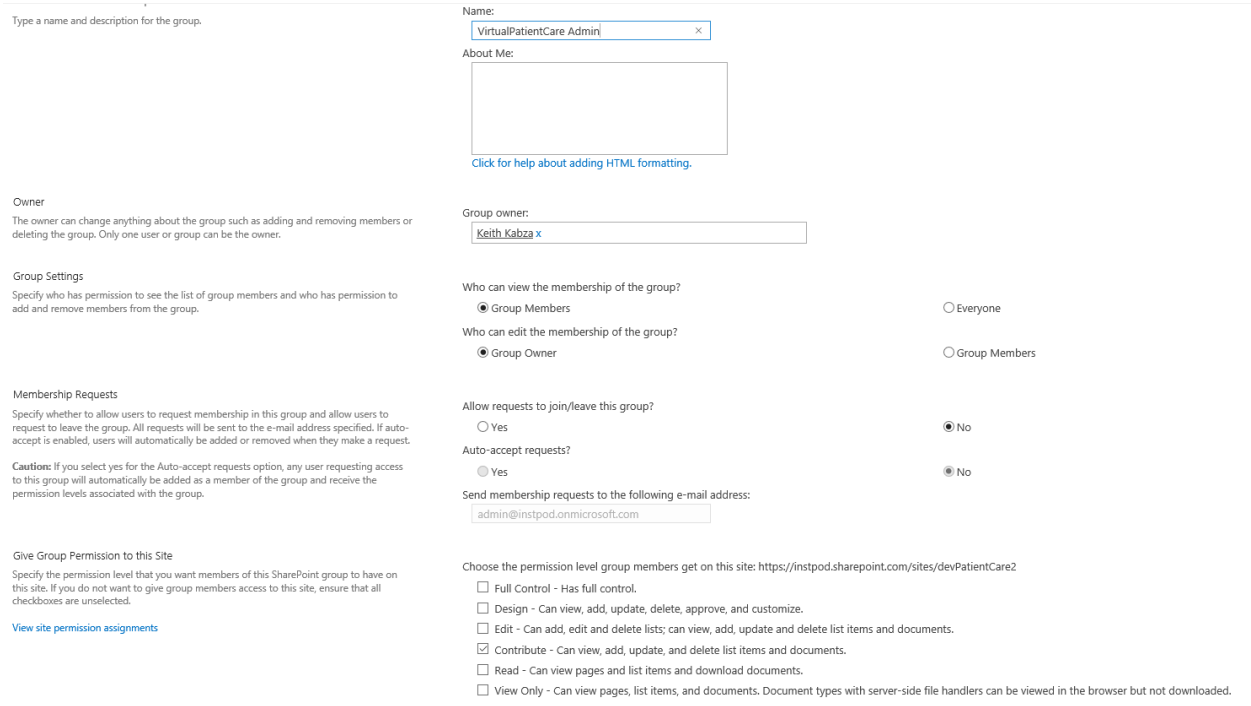
```
<add key="SharepointSite" value="SITE_COLLECTION_URL" />
```

## 4.2 SharePoint Configurations

Create a SharePoint Group and Add the people to the group who will have access to the settings page of the Virtual Health solution

- Open the site collection
- Go to site settings → Peoples and Group
- Click on More
- Click on New

- Fill in the details like Name as "`VirtualPatientCare Admin`" and select group permission as contribute




- Click Save
- Note down the SharePoint Group Name in below format

```
<add key="SharepointAdminGroup" value="SHAREPOINT_GROUP_NAME" />
```

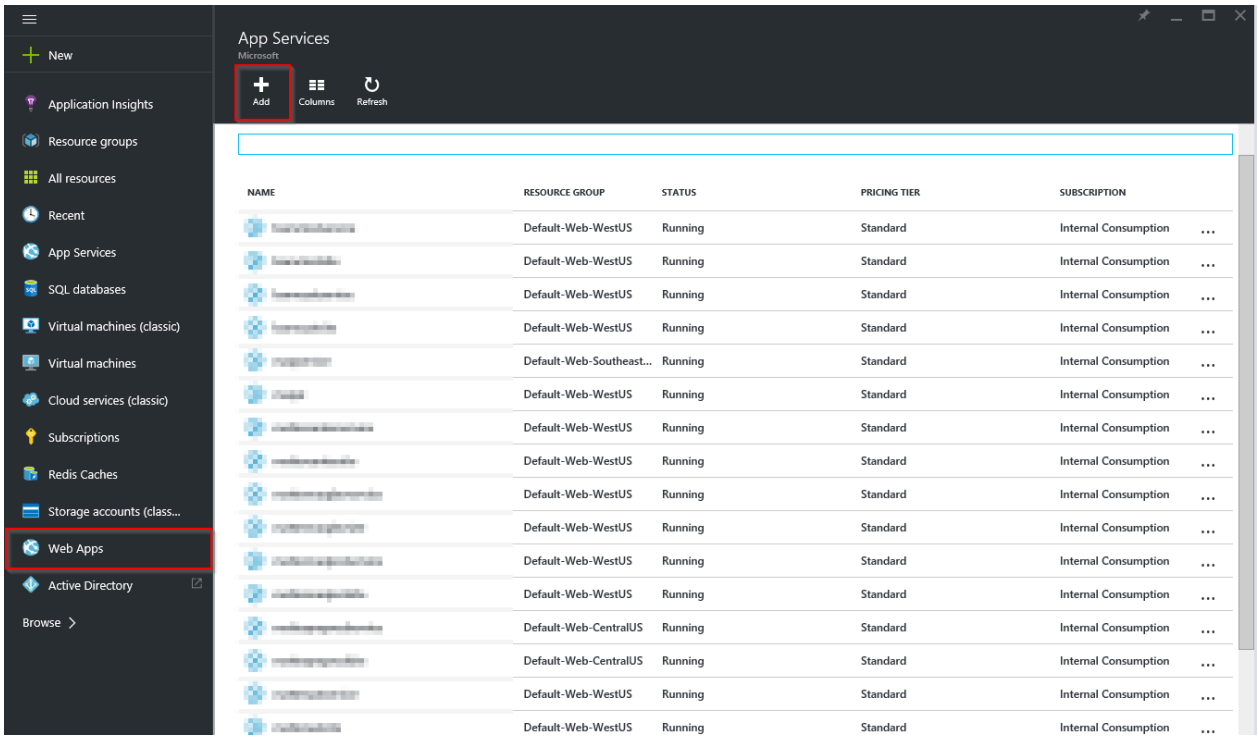
## 4.3 Azure Web Apps Provisioning

Virtual Health solution has following web apps

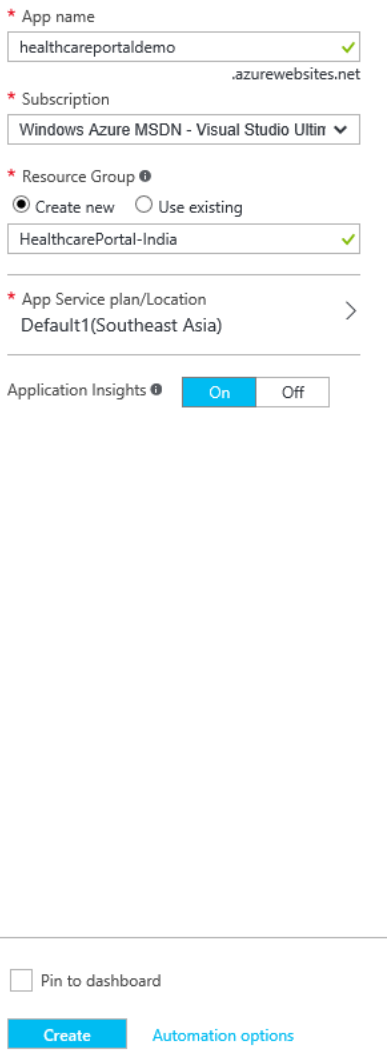
- HealthCare.Portal
- VHCBot

All the above web apps can be provisioned using below steps (steps only explaining for HealthCare.Portal web app)

A. Steps to provision an azure website
   1. Login to Azure management portal
   2. Select Web Apps and click on Add button




3. Enter name for web app and appropriate subscription Resource group and App Service plan as shown below




4. Click on create button at the bottom of the panel
   **Note**: *You should select the App Service Location closest to your users. This will help in reducing network latency and potentially provide better experience for users. App Service Location (in above example Southeast Asia) will be used to automatically create other services in the same location (in above example it will be Southeast Asia) so that all required objects are co-located.*

B. Steps to configure Application Insights
   a. While creating the website if you mark the option "Applications Insights" to **ON,** Application Insight will be provisioned
   b. Note down the application insight key

C. Website – Scaling
   a. If you want to change the scaling of the website, you can scale as per pre-requisite section

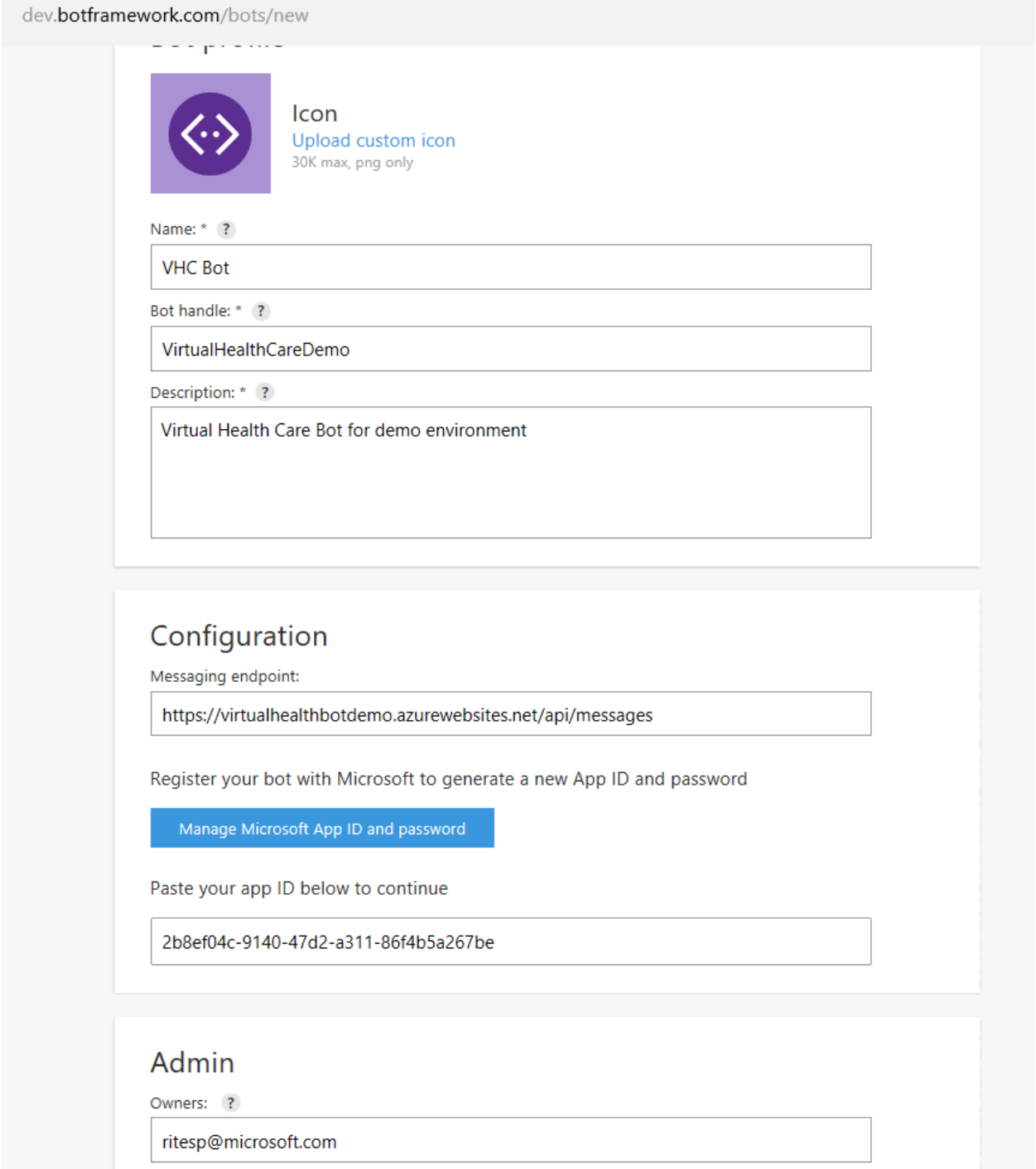
Note down the following values from this section

```
<add key="ida:HealthCarePortal" value="HEALTH_CARE_PORTAL_URL />

<add key="iKey" value="APP_INSIGHT_KEY_HEALTH_CARE_PORTAL" />

BOT_WEBSITE_URL = https://xxxx.azurewebsites.net [It will be used in BOT
Configuration Section]
```

## 4.4 Bot Configuration

Register a Bot

- Go to https://dev.botframework.com
- Click on Register a bot
- Add the following details
    - Name: display name
    - Bot handle: unique ID, not used elsewhere
    - Messaging endpoint: HTTPS endpoint used by the bot framework; if Azure Bot Web App deployment is on ***https://x.azurewebsites.net*** then this will be https://x.azurewebsites.net/api/messages



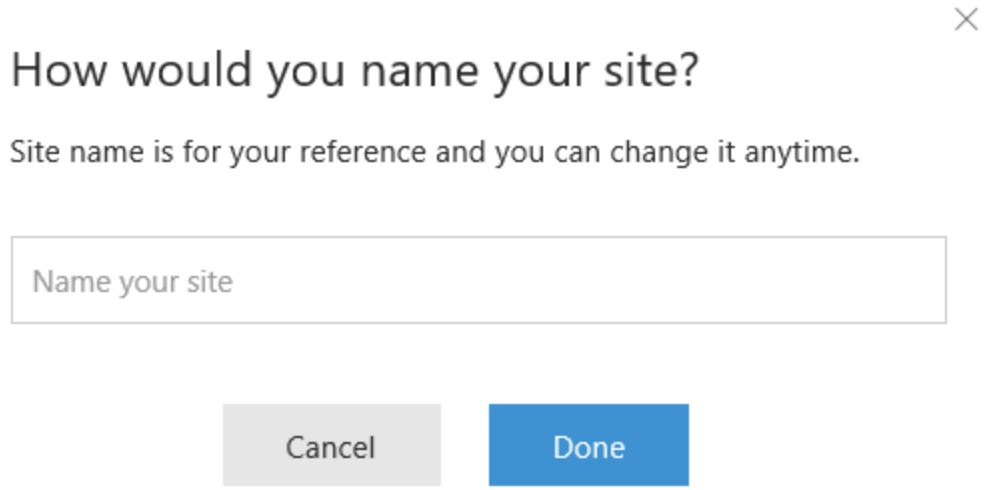

- Click “Create Microsoft App ID and Password”
- It will generate App Id and password and make a note of it, and you need to update same in web.config file of Bot Project
- Click on Register to register the bot
- Note down the configurations values in below format

```
<add key="BotId" value="BOT_ID" />

<add key="MicrosoftAppId" value="BOT_APP_ID" />

<add key="MicrosoftAppPassword" value="BOT_APP_PASSWORD" />
```

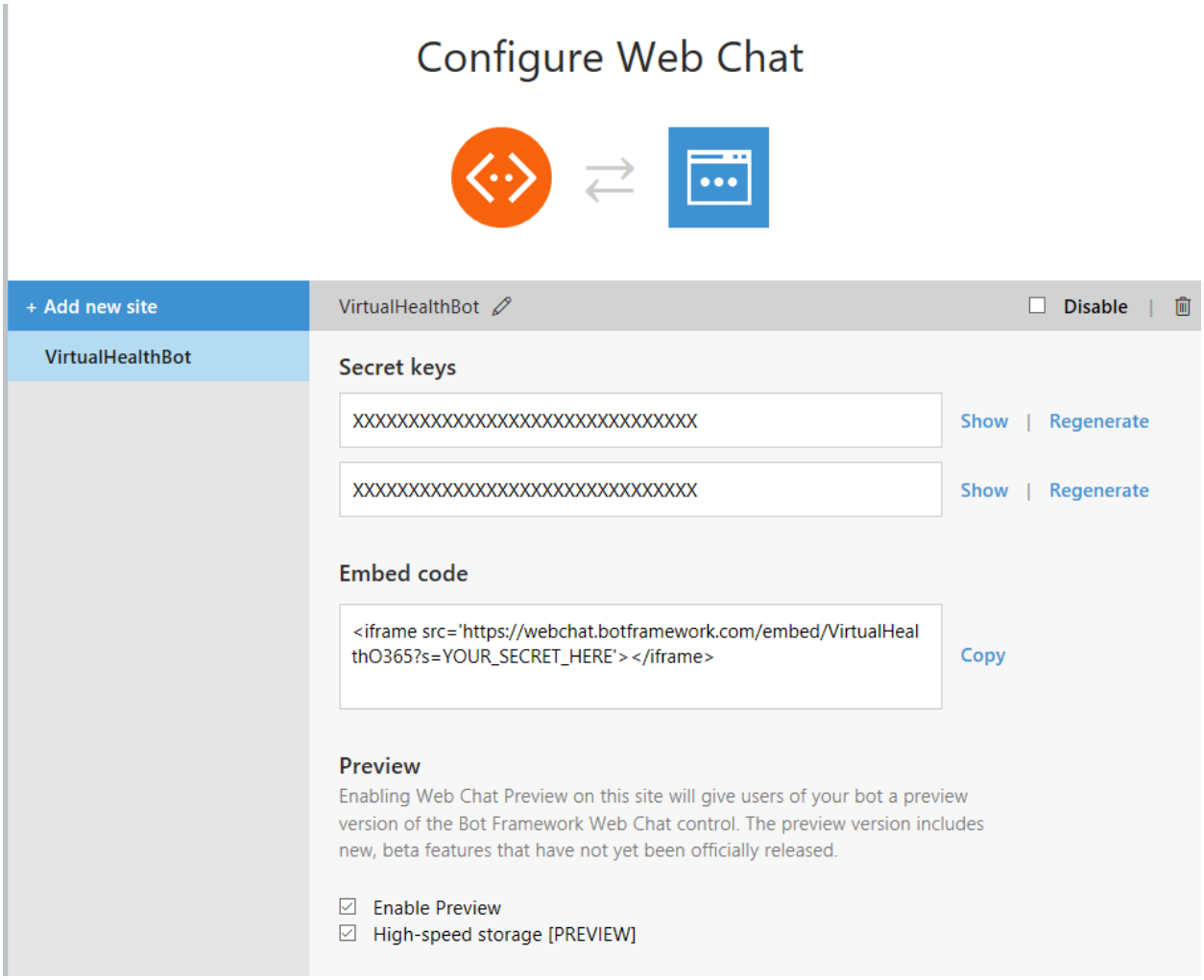
To get the Bot embed code, follow the below steps (Execute this step after execution of 5.4)

- Go to https://dev.botframework.com after registering the Bot
- Click on My Bots
- Click on the Bot created for the Virtual Health
- Click on Edit link available for Web Chat under Channel section


- Click on **Add New Site**
- Type the name like "VirtualHealthBot"




- Click Done, you will be redirected to Configure Web Chat page




- Copy the embed URL like https://webchat.botframework.com/embed/VirtualHealthO365?s=YOUR_SECRET_HERE
- Click on the Show secret and copy it and Replace the YOUR_SECRET_HERE with the secret
- Copy the embed URL as it will be required to be updated in Web.Config file of HealthCare.Portal web project.
  Note down the configuration value in below format

```
<add key="botUrlEmbed" value="BOT_EMBED_URL" />
```

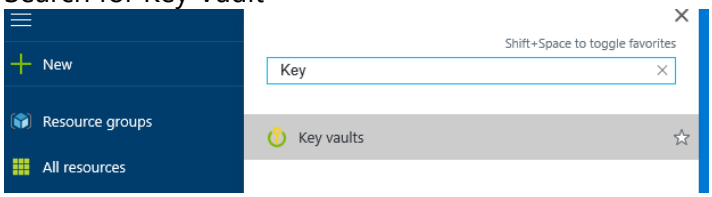
## 4.5 Key Vault Provisioning

Key Vault Provisioning and Configuration

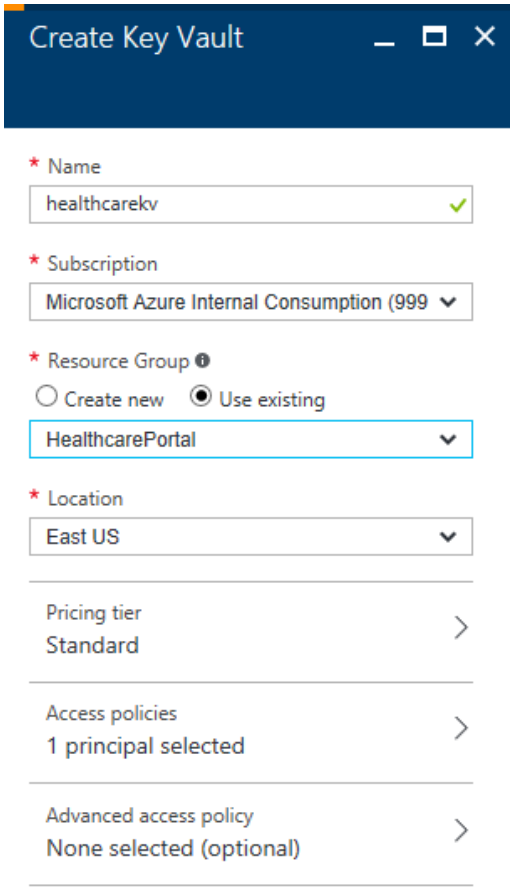
*Note*:* User should have access to

- Create an active directory application using PowerShell
- Assign the service principal to an azure active directory application.

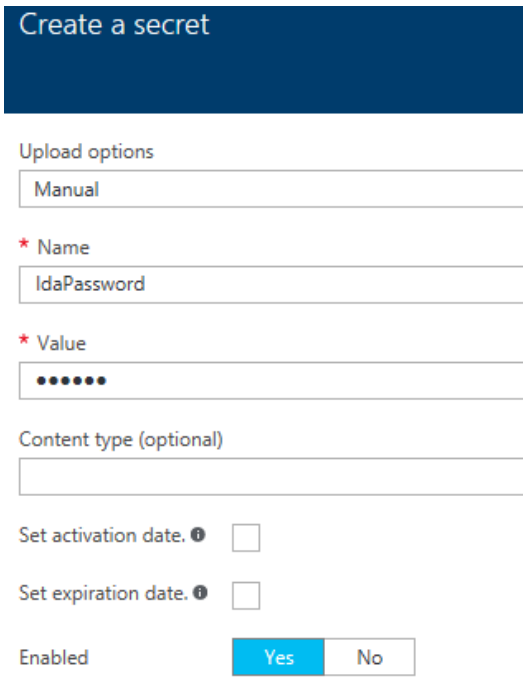
A. Key Vault Provisioning
   a. Login to Azure management portal
   b. Click on New (+) on left navigation Panel
   c. Search for Key Vault




   d. Click on Key Vaults
   e. Click on Add
   f. Fill in the details as shown below




g. Click Create
h. Once it is provisioned, open the Key Vault
i. Click on Secrets
j. Click Add and fill the values like below




k. Click Create
l. Add another secret with Name "SpoPassword", "EncryptionKey" and "EncryptionSalt". The values of these secrets will be like
SpoPassword: Password of a spo user
IdaPassword: password of AAD user (most of the case it is same as spo user)
EncryptionKey: Generate a new GUID
EncryptionSalt: Generate a new GUID

> Please generate new Guid for EncryptionKey and EncryptionSalt

m. Note down the Key Vault Base URL in below format

```
<add key="KeyVaultBaseUrl" value="KEY_VAULT_BASE_URL"/>
```

B. Configure Azure AD application for Key Vault and associate certificate
   a. Get the certificate for the Key Vault or Create a self-signed certificate using the link [https://technet.microsoft.com/itpro/powershell/windows/pki/new-selfsignedcertificate](https://technet.microsoft.com/itpro/powershell/windows/pki/new-selfsignedcertificate)
   Open the PowerShell command as Administrator
   b. Run the following PowerShell after updating the yellow highlighted below
   It does create following items
      - Creates the AD application with the certificate
      - Create service principal
      - Assign reader role to the service principal

You need to replace the below yellow highlighted text with actual values for your environment.

Add-AzureRmAccount

```
PS C:\WINDOWS\system32> Add-AzureRmAccount
```

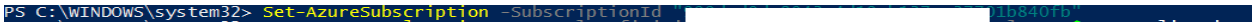
//The account that has privileges to create and assign service principal in the azure AD

$cert = New-SelfSignedCertificate -CertStoreLocation "cert:\LocalMachine\My" -Subject "CN=o365virtualhealth" -KeySpec KeyExchange

$keyValue = [System.Convert]::ToBase64String($cert.GetRawCertData())

$app = New-AzureRmADApplication -DisplayName "virtualhealthKv" -HomePage "https://virtualhealtho365" -IdentifierUris "https://virtualhealtho365/virtualhealth" -CertValue $keyValue -EndDate $cert.NotAfter -StartDate $cert.NotBefore

//If you have multiple subscription make sure, you use following command




New-AzureRmADServicePrincipal -ApplicationId $app.ApplicationId

New-AzureRmRoleAssignment -RoleDefinitionName Reader -ServicePrincipalName $app.ApplicationId

$app

$cert.ThumbPrint

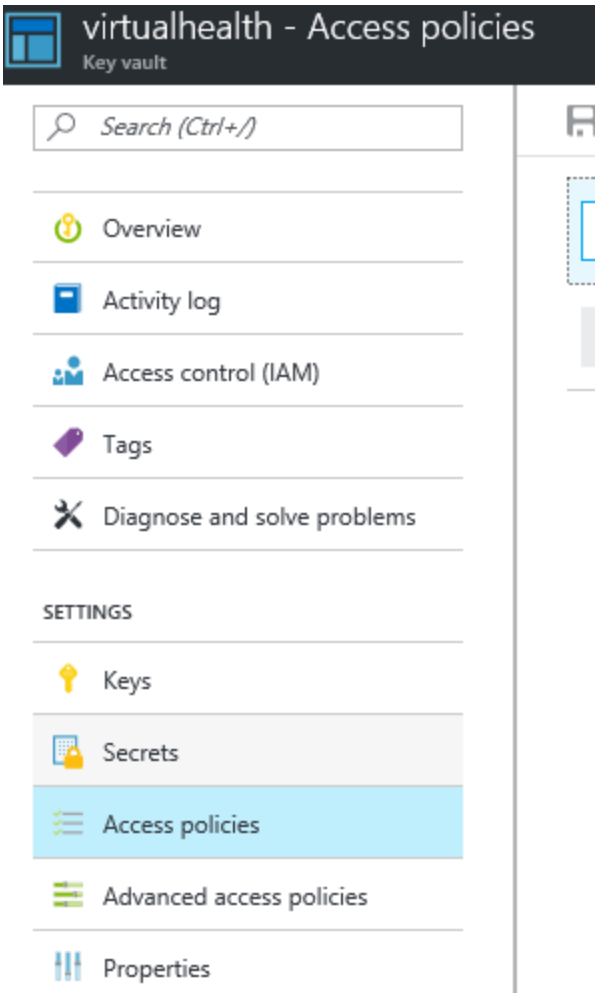
Refer to this link for more details [https://docs.microsoft.com/en-in/azure/azure-resource-manager/resource-group-authenticate-service-principal](https://docs.microsoft.com/en-in/azure/azure-resource-manager/resource-group-authenticate-service-principal)

c. Note down the thump print and application Id as it will be used in web.config of the HealthCare.Portal application

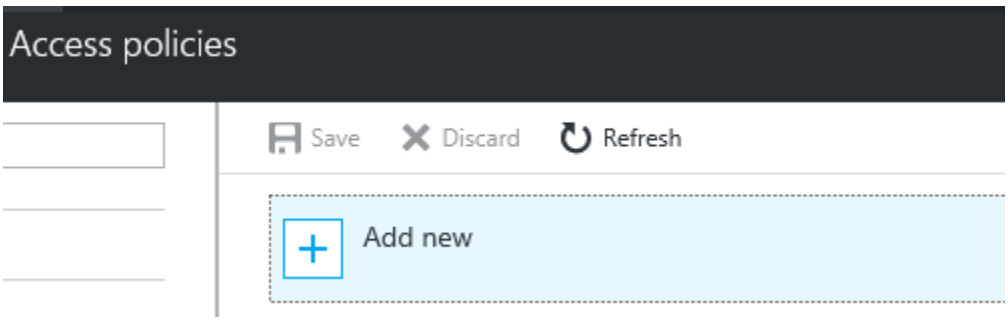
```
<add key="ClientId" value="AZURE_AD_APPLICATION_ID" />

<add key="Thumbprint" value="THUMB_PRINT_CERTIFICATE" />
```

### Add Access Policy to Key Vault

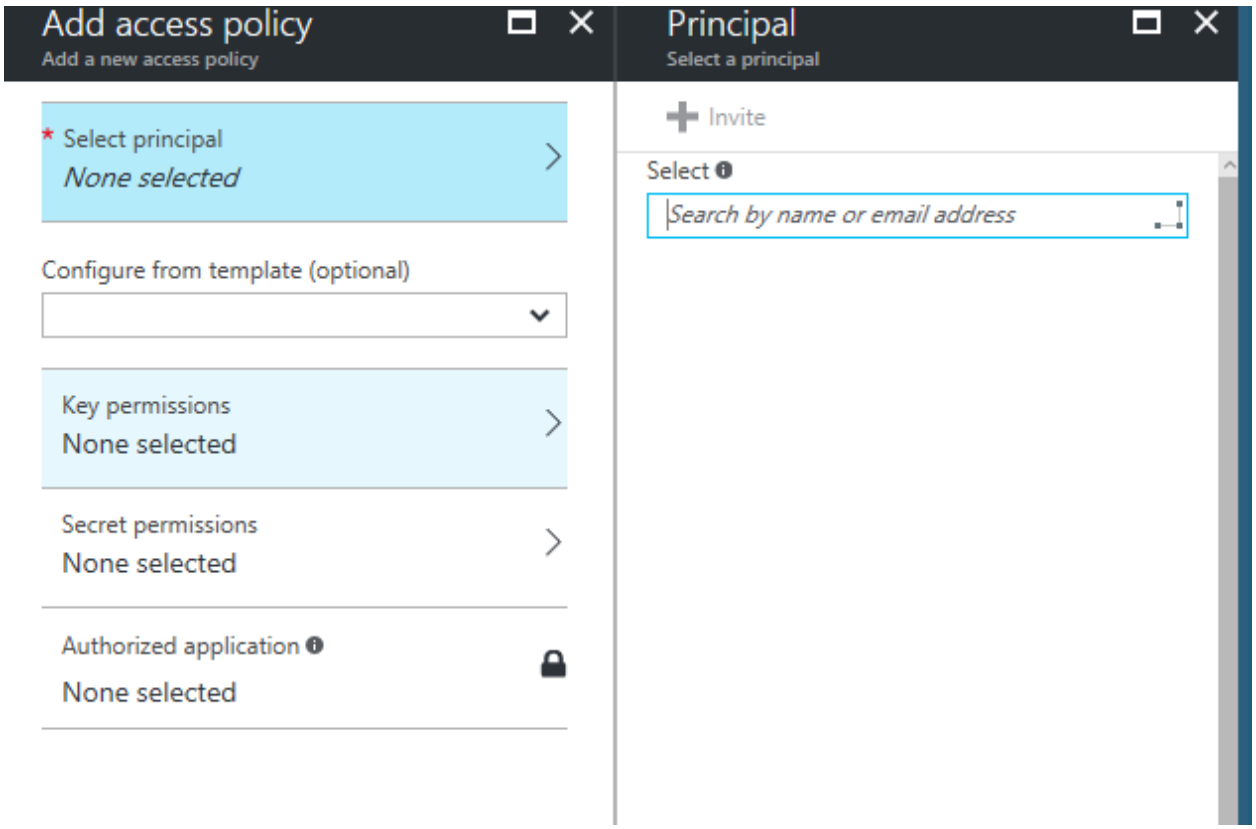
1. Go to the Azure Portal
2. Browse key Vault created earlier
3. Go to Access Policies



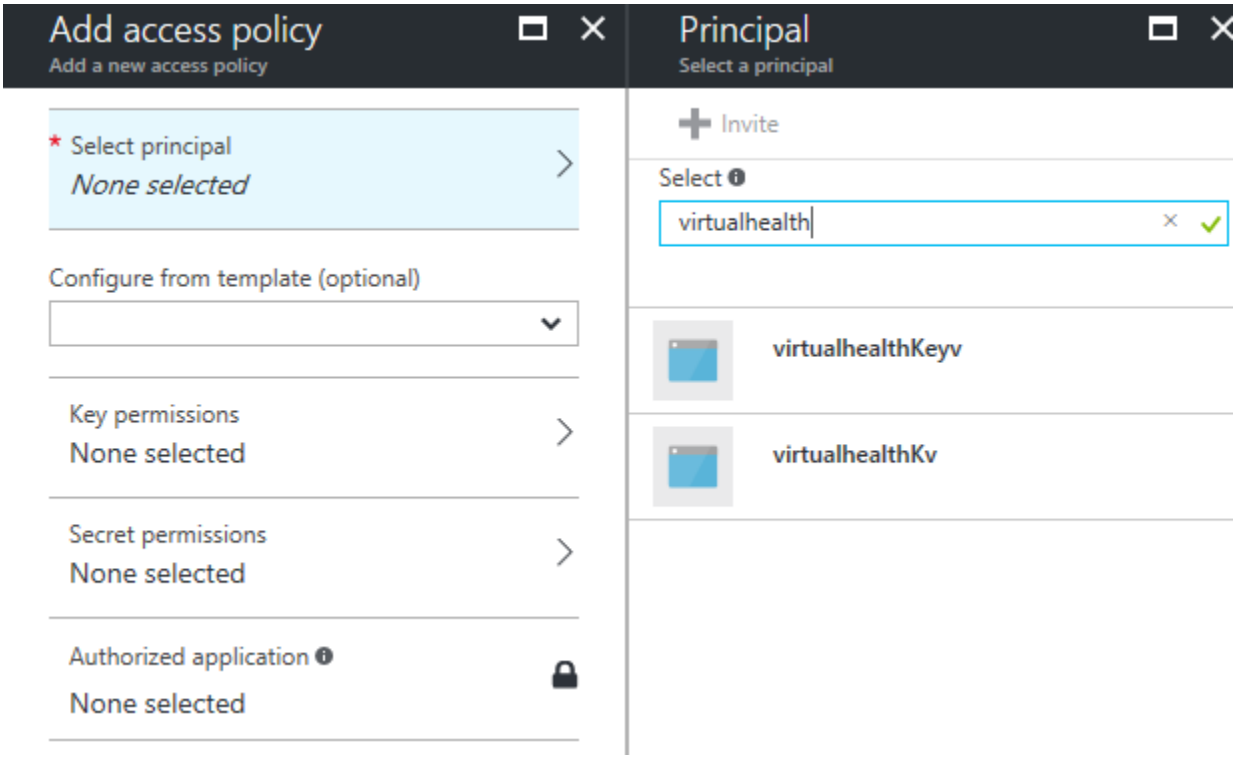

4. Click on Add New



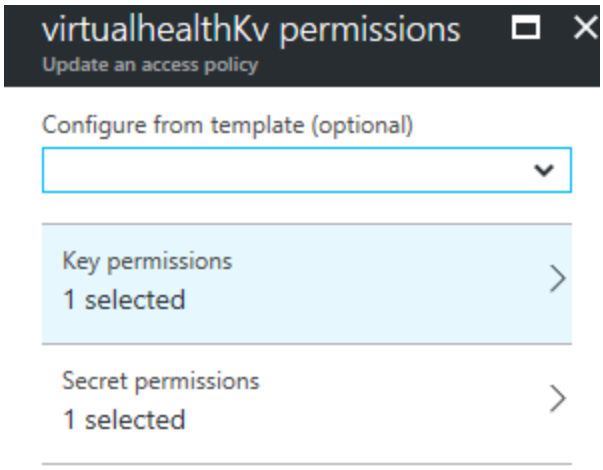

5. Click on Service Principal




6. Search the principal that was created earlier like virtualhealth




7. Select the one which was created in earlier step
8. Select the permission for Key and Secret (at least get permission should be assigned)

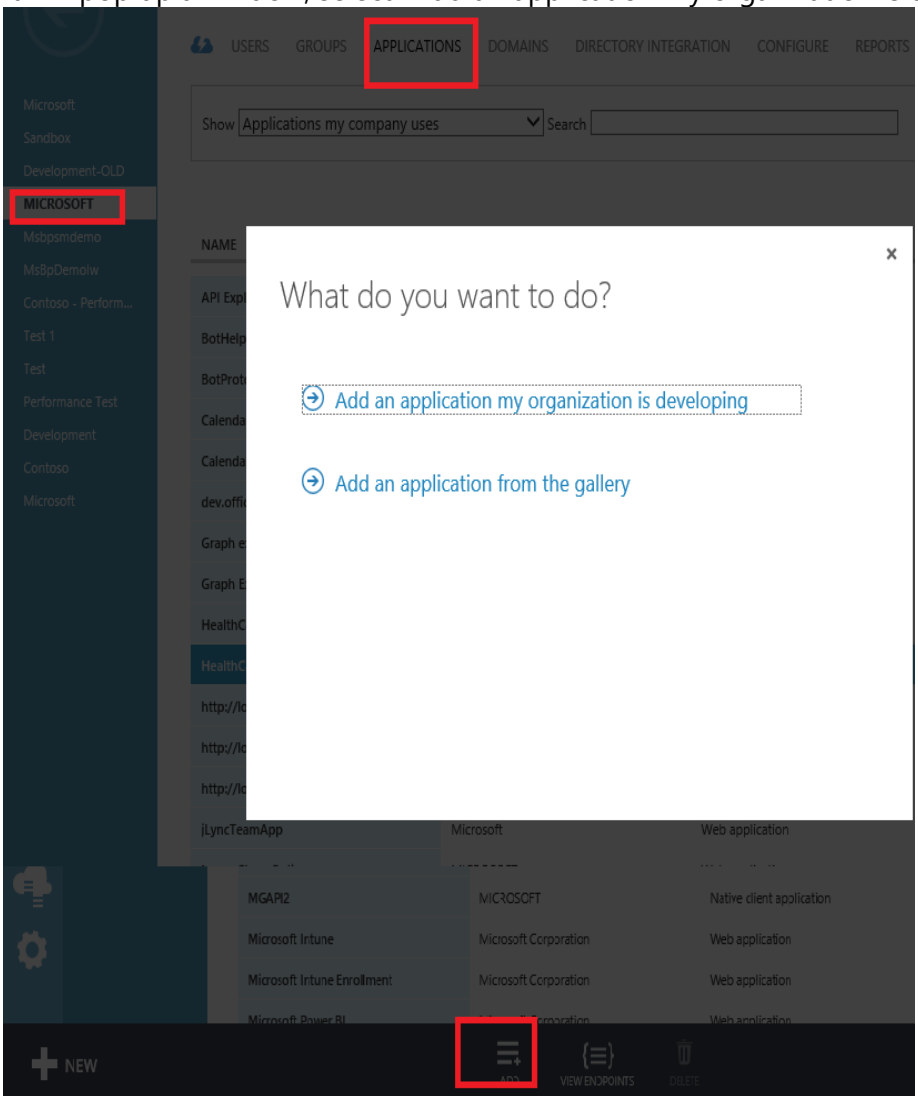

virtualhealthKv permissions
Update an access policy
Configure from template (optional)
Key permissions
1 selected
Secret permissions
1 selected

9. Click Save

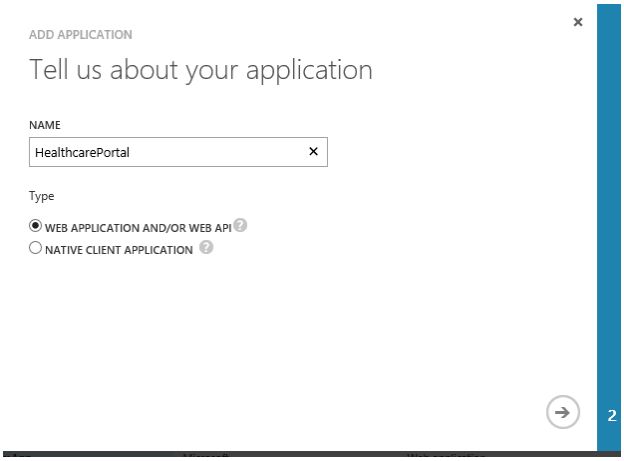
## 4.6 Azure AD application Configuration

Provision Azure AD applications

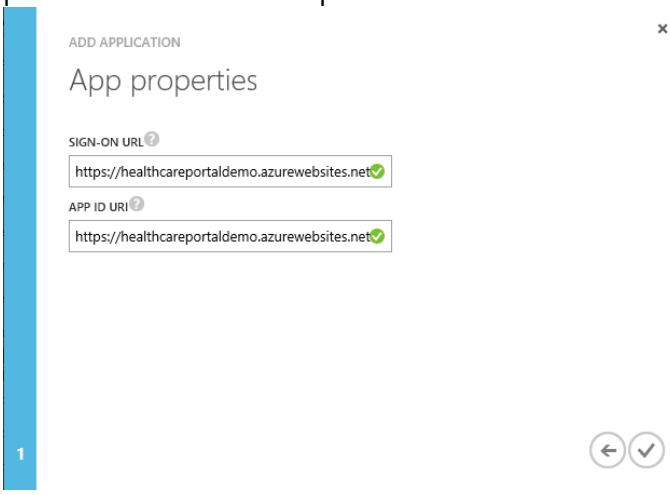
1. Login to Classic Azure Management Portal with Azure Admin Account
2. Click on the Active Directory link on the left menu
3. Select the Active Directory
4. Click on Applications tab
5. Then click on Add link at bottom
6. It will pop up a window, select "Add an application my organization is developing"



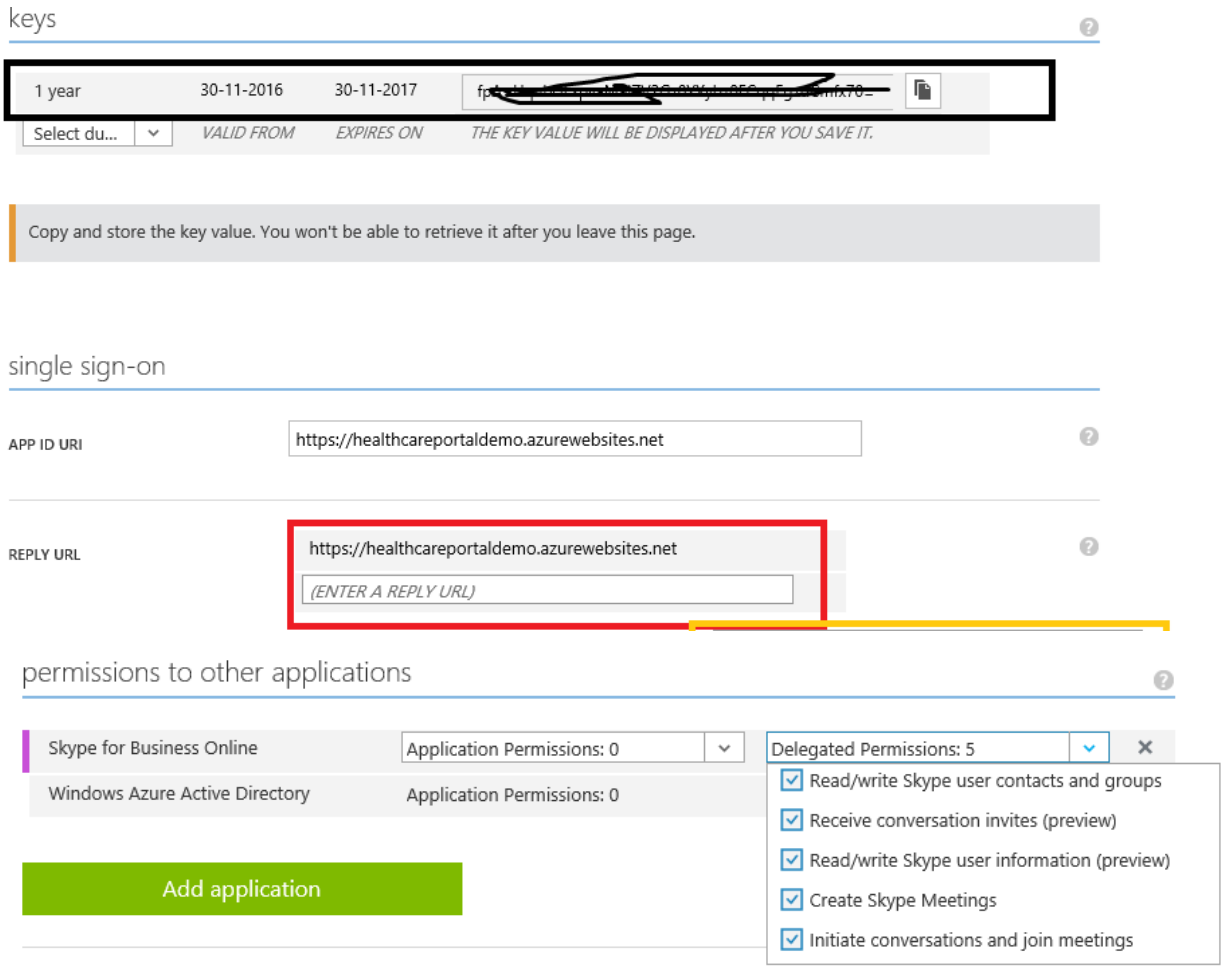

A. Provision Azure Application for HealthCare Portal
   a. Select "Web Application AND/OR Web API" option
   b. Provide name "HealthcarePortal"




c. Click next
d. Enter sign-ON and APP ID URL as valid URL e.g. Azure Portal Web App provisioned in above steps as shown below




e. Click Ok
f. Click on the created application
g. Then navigate to Configure tab
h. Go to key's section, add a key or select duration and save the application settings by clicking save
i. It will generate a secret against key, **make a note of it**
j. **Make a note of client Id**
k. Now go to single sign-on section and add reply URL as per application URL i.e. HealthCare.Portal URL
l. Go to permissions to other applications
m. Click on Add application
n. Select Skype for business online and click ok
o. Select the delegated permissions as shown in the below picture




p. Click on save to save the application settings

q. **Note down the application secret from keys sections**

```
<add key="ida:ClientId" value="CLIENT_ID_AZURE_AD_APP_HEALTH_CARE_PORTAL" />

<add key="ida:ClientSecret" value="CLIENT_PWD_AZURE_AD_APP_HEALTH_CARE_PORTAL " />
```

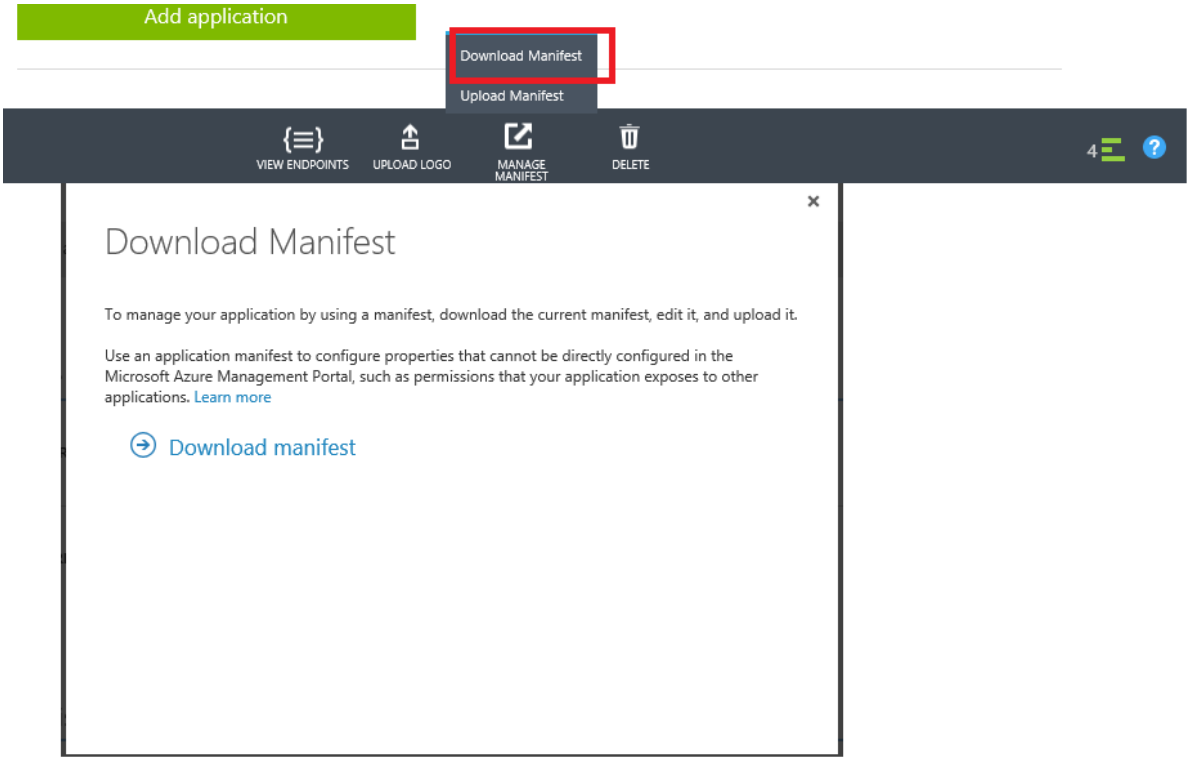
B. Configure OAuth Flow

a. Open the Azure AD application created in step A

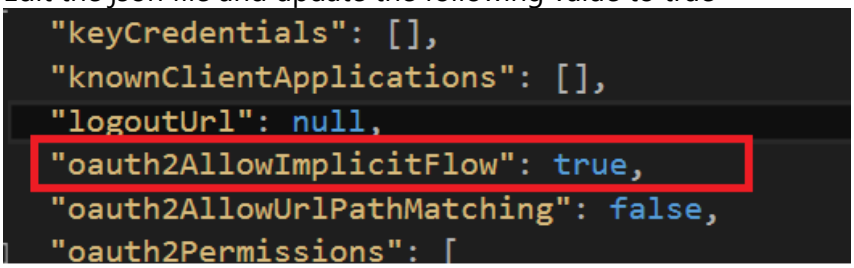
b. Go to Configure tab

c. At the bottom, click on the Manage Manifest

d. Click on Download Manifest




e. Edit the json file and update the following value to true



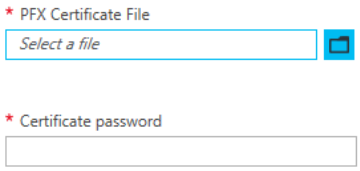

f. Save the file

g. Upload the manifest file

## 4.7 Azure Web App Configurations

The following configuration is required on the HealthCare.Portal Web App

A. Add the certificate to Web App
   a. Click on App Services available in Left Navigation of Azure Portal
   b. Click on the Web App
   c. Then Click on SSL Certificates
   d. Then click upload certificate
      **Note: If you are using self-signed certificate then this certificate is the same certificate which was created during the Key Vault provisioning. Export the *.pfx file with password. If you are using CA certificate, then you should be having *.pfx file available to you.**
   e. Select *.pfx file and enter the password for the PFX file




   f. Click Upload

B. Add the Key to Azure Web App
   a. To load the certificate, add the following entry in azure web app
   b. Click on the Application Settings
   c. Scroll down and look for App Settings section
   d. Enter WEBSITE_LOAD_CERTIFICATES as key and * as value
   e. Then save the setting.

## 4.8 Other Configurations

This section will list down other configurations elements that needs to be captured before deploying the Web Apps.

```
<add key="ida:AuthorizationUri" value="https://login.microsoftonline.com" />

<add key="ida:AADInstance" value="https://login.microsoftonline.com" />

<add key="ida:Domain" value="O365_DOMAIN" />

<add key="ida:TenantId" value="TENANT_ID" />

<add key="ida:UserName" value="USER_NAME" />
```

```
<add key="SPOUserName" value="SPO_USER_NAME" />

<add key="ida:PostLogoutRedirectUri" value="HEALTH_CARE_PORTAL_URL" />

<add key="ida:MeetingSubject" value="MEETING_SUBJECT" />

<add key="TrustedApi" value="TRUSTED_API_URL" />

<add key="MobileSiteUri" value="MOBILE_SITE_URL"/>

<add key="DemoUserId" value="O365_USER_ID"/>

<add key="EmailServer" value="smtp.office365.com"/>
```

# 5 Azure Web Apps Deployment (Continuous)

## 5.1 Updated the Config file

- Open the HealthCarePortal.Sln in Visual Studio 2015
- Make sure the project loads successfully

### 5.1.1 Update Bot Web.Config

- Click on the **VHCBot** project and expand it
- Open Web.Config file
- Update the following values

```
<add key="BotId" value="BOT_ID" />
<add key="MicrosoftAppId" value=" BOT_APP_ID" />
<add key="MicrosoftAppPassword" value="BOT_APP_PASSWORD" />
<add key="ida:HealthCarePortal" value="HEALTH_CARE_PORTAL_URL"/>
<add key="ida:UserName" value="O365_USER_NAME" />
```

- Save the file and close it

### 5.1.2 Update HealthCare Portal URL

- Click on the **HealthCare.Portal** project and expand it
- Open **Web.Config** file

Update the following values with values captured in above section (user your notepad or xml notepad)

```
<add key="ida:ClientId" value="CLIENT_ID_AZURE_AD_APP_HEALTH_CARE_PORTAL" />
<add key="ida:ClientSecret" value="CLIENT_PWD_AZURE_AD_APP_HEALTH_CARE_PORTAL" />
<add key="ida:Domain" value="O365_DOMAIN" />
<add key="ida:TenantId" value="TENANT_ID" />
<add key="ida:NativeAppClientId" value="NATIVE_APP_CLIENT_ID" />
<add key="ida:UserName" value="USER_NAME" />
<add key="SharepointSite" value="SHAREPOINT_SITE_URL" />
<add key="SPOUserName" value="SPO_USER_NAME" />
<add key="ida:PostLogoutRedirectUri" value="HEALTH_CARE_PORTAL_URL/" />
<add key="ida:MeetingSubject" value="MEETING_SUBJECT" />
<add key="ida:HealthCarePortal" value="HEALTH_CARE_PORTAL_URL" />
<add key="KeyVaultBaseUrl" value="KEY_VAULT_BASE_URL"/>
<add key="ClientId" value="AZURE_AD_APPLICATION_ID" />
<add key="Thumbprint" value="THUMB_PRINT_CERTIFICATE" />
<add key="TrustedApi" value="TRUSTED_API_URL" />
<add key="iKey" value="HEALTH_CARE_PORTAL_APP_INSIGHT_KEY" />
<add key="botUrlEmbed" value="BOT_URL_EMBED" />
<add key="MobileSiteUri" value="MOBILE_SITE_URL"/>
<add key="DemoUserId" value="O365_USER_ID"/>
<add key="EmailServer" value="smtp.office365.com"/>
<add key="SharepointAdminGroup" value="SHAREPOINT_GROUP_NAME"/>
```

- Save the file and close it

### 5.1.3 Update Deployment Tool Config file

Follow the below steps to update the config file of deployment tool (Download from here)

1. Open **DeploymentTool.exe.config** file
2. Update the appsettings values as per environment
   Path of

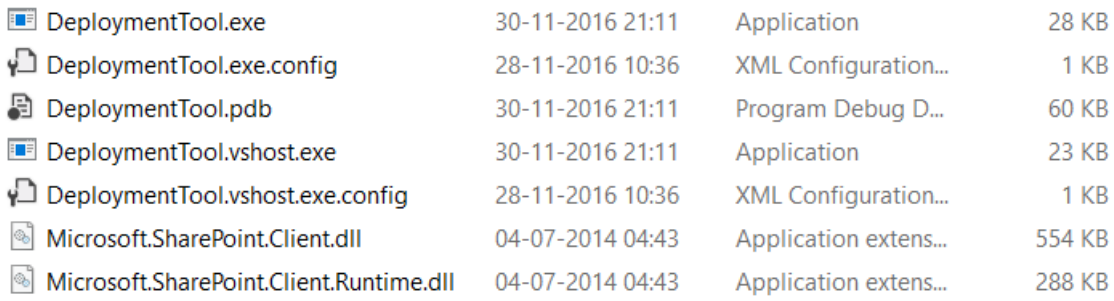
```
<add key="basePath" value="SHAREPOINT_SITE_URL"/>
<add key="username" value="SPO_USER_NAME"/>
<add key="password" value="SPO_USER_PASSWORD"/>
```

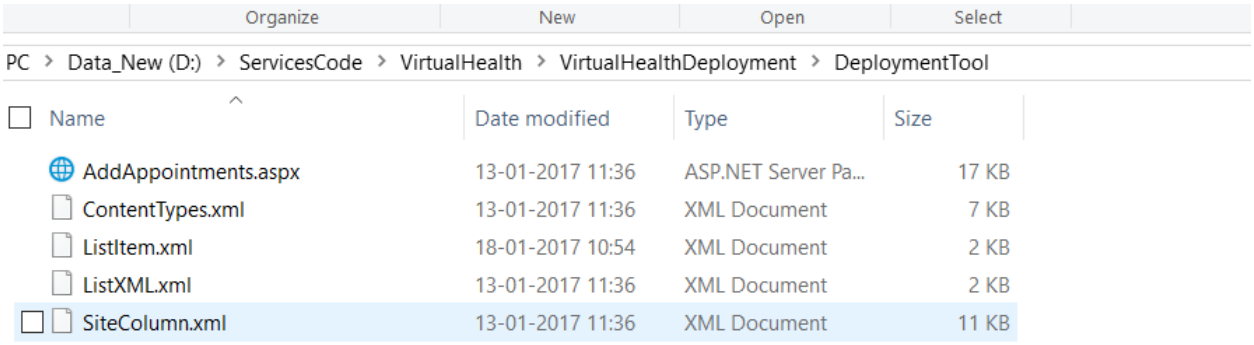
3. Save it

## 5.2 SharePoint Deployment

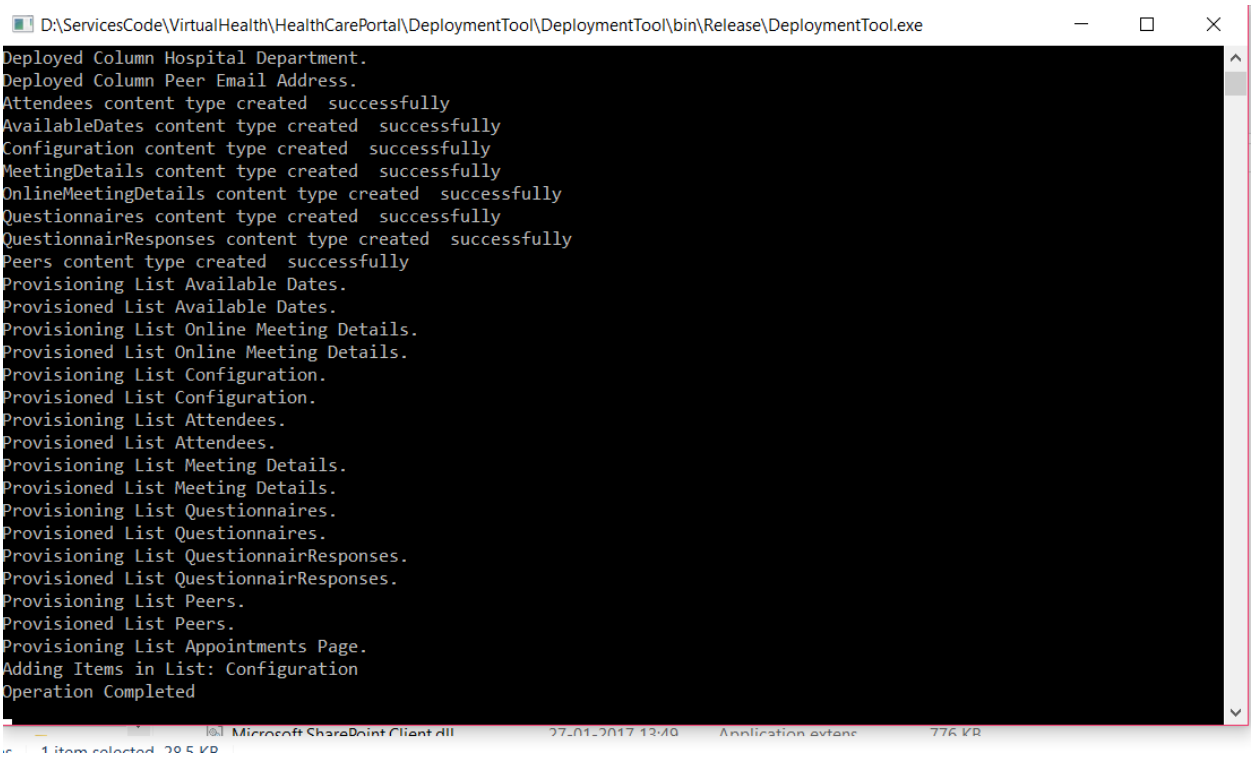
Deploy the SharePoint artefacts using below steps

- Download the deployment tool
- The folder would contain following file



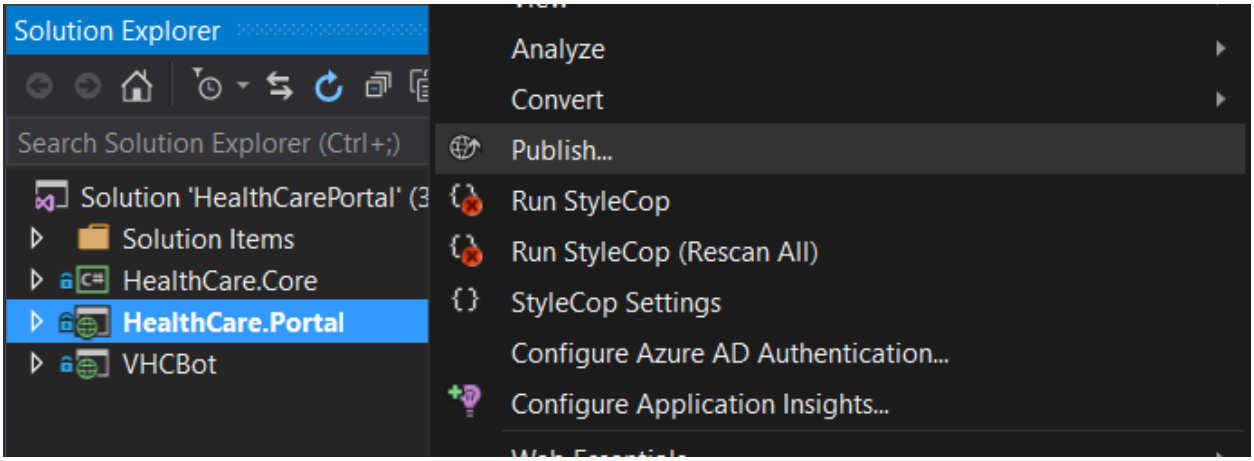

- Double click DeploymentTool.exe
- Select Option 6
- Wait for PowerShell to complete the operation




## 5.3 Virtual Health Deployment

There are multiple ways to deploy a Web App in Azure. This section talks about Visual Studio Web Deploy publishing.

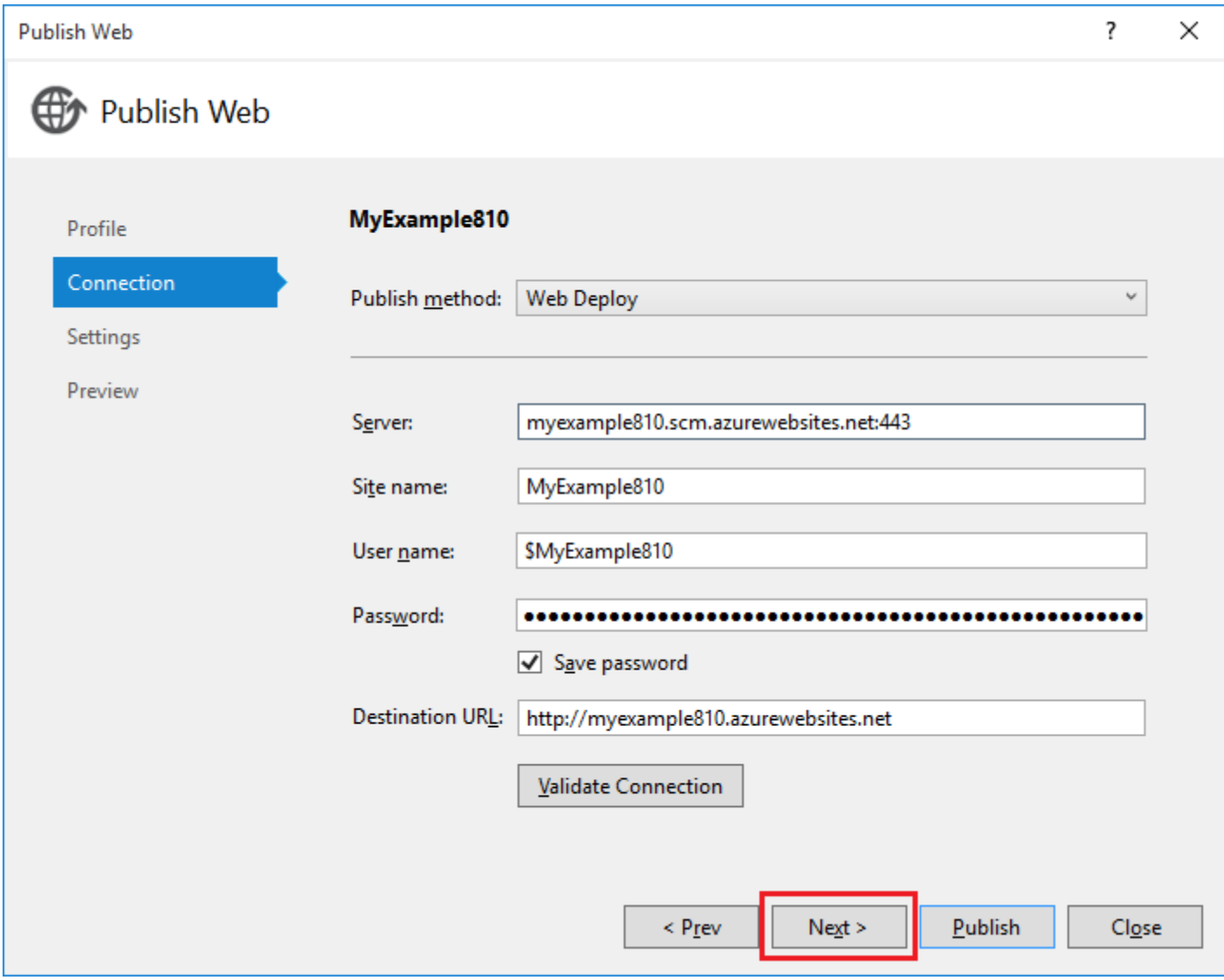
In **Solution Explorer**, right-click the project, and choose **Publish**.




In a few seconds, the **Publish Web** wizard appears. The wizard opens to a *publish profile* that has settings for deploying the web project to the new web app.

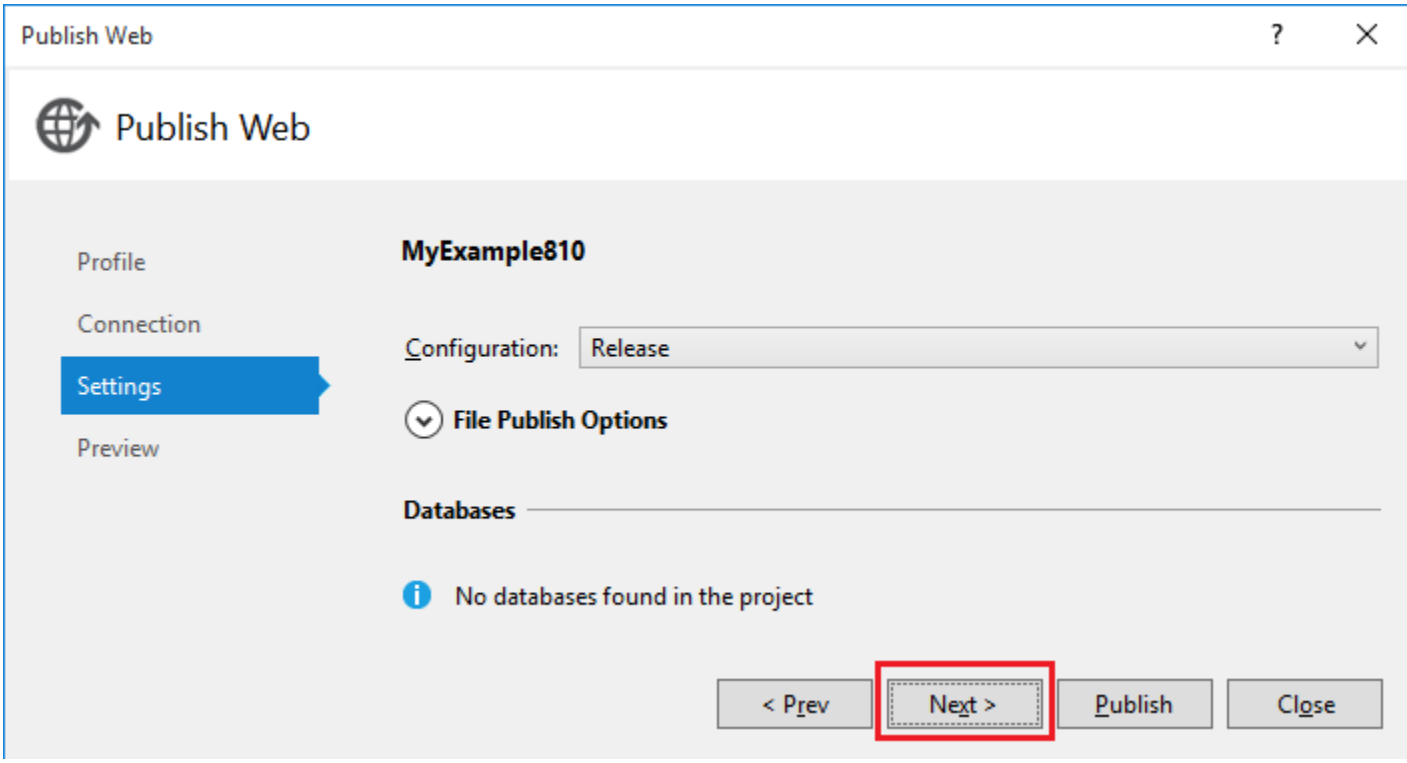
> Tip
>
> The publish profile includes a user name and password for deployment. These credentials have been generated for you, and you don't have to enter them. The password is encrypted in a hidden user-specific file in the `Properties\PublishProfiles` folder.

1. On the **Connection** tab of the **Publish Web** wizard, click **Next**.



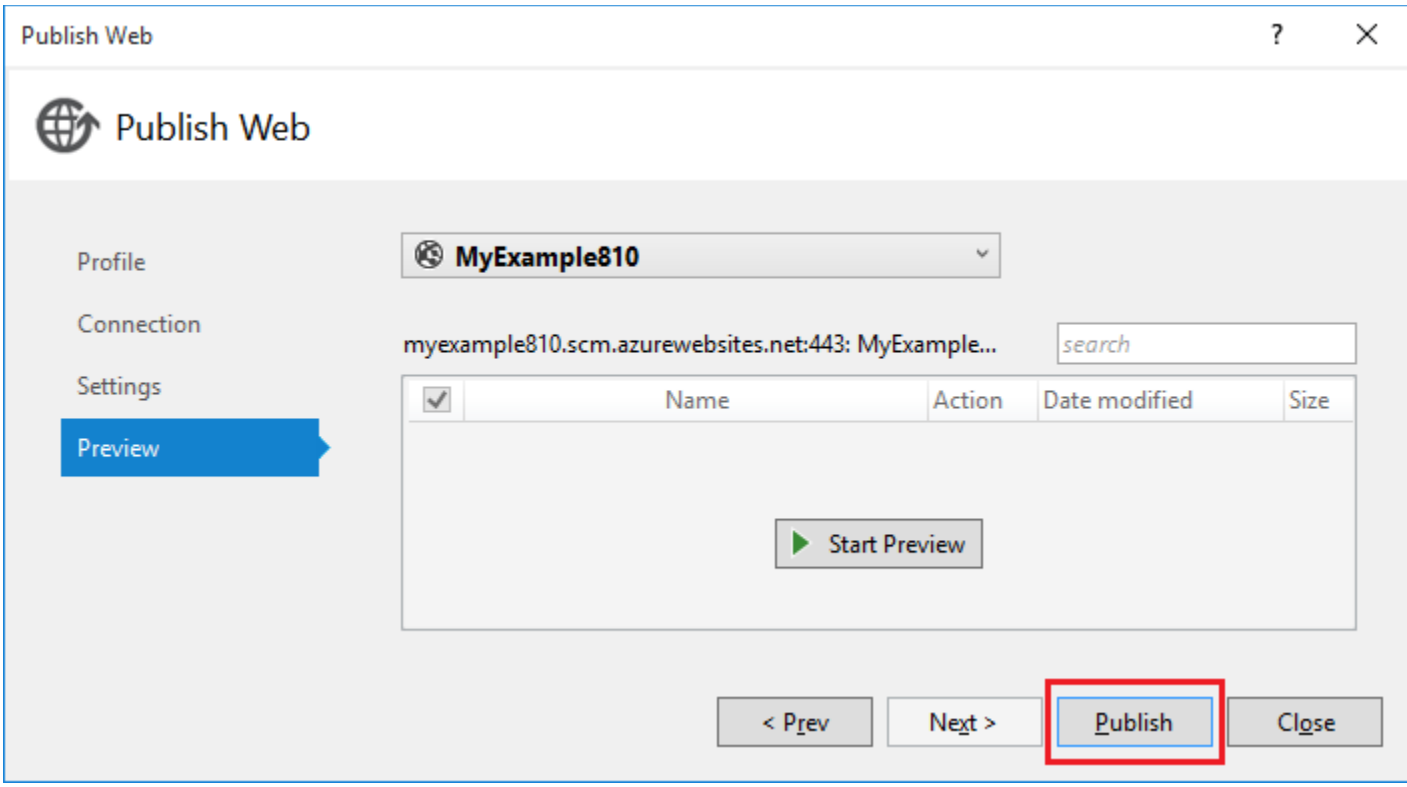

Next is the **Settings** tab. Here you can change the build configuration to deploy a debug build for remote debugging. The tab also offers several File Publish Options.

2. On the **Settings** tab, click **Next**.



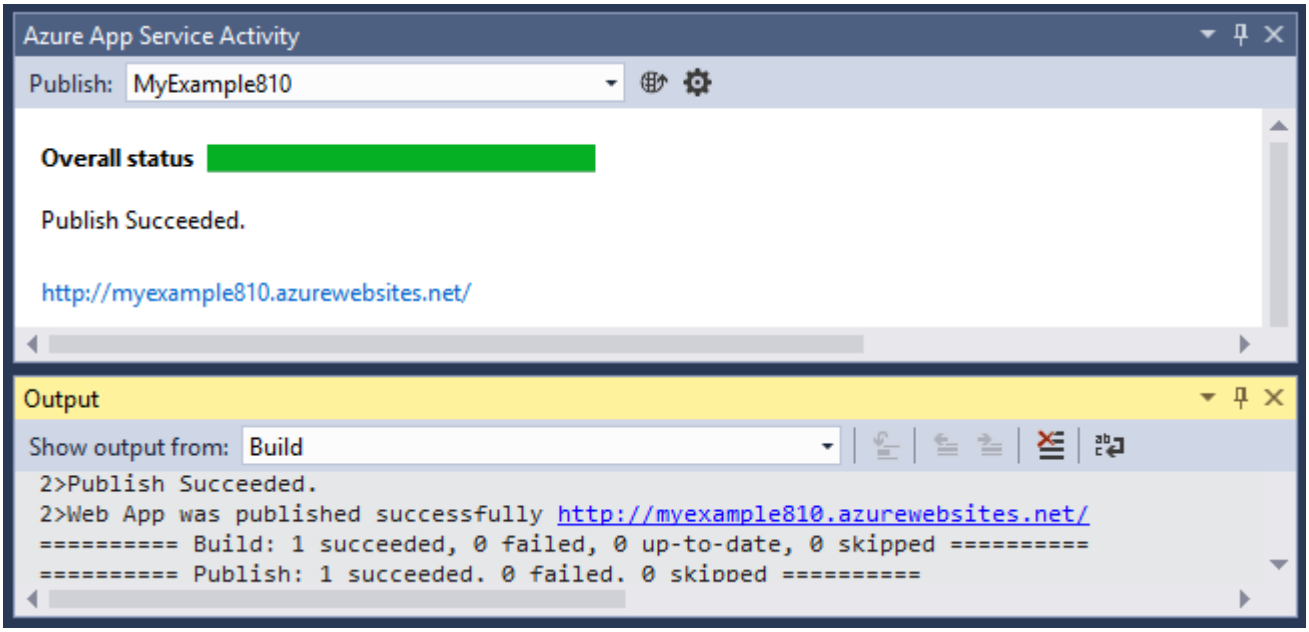

The **Preview** tab is next. Here you have an opportunity to see what files are going to be copied from your project to the API app. When you're deploying a project to an API app that you already deployed to earlier, only changed files are copied. If you want to see a list of what will be copied, you can click the **Start Preview** button.

3. On the **Preview** tab, click **Publish**.




When you click **Publish**, Visual Studio begins the process of copying the files to the Azure server. This may take a minute or two.

The **Output** and **Azure App Service Activity** windows show what deployment actions were taken and report successful completion of the deployment.




Upon successful deployment, the default browser automatically opens to the URL of the deployed web app, and the application that you created is now running in the cloud. The URL in the browser address bar shows that the web app is loaded from the Internet

## 5.4 VHC Bot Web App Deployment

Follow the same step as given in Section 5.3 to deploy VHC Bot Web App.

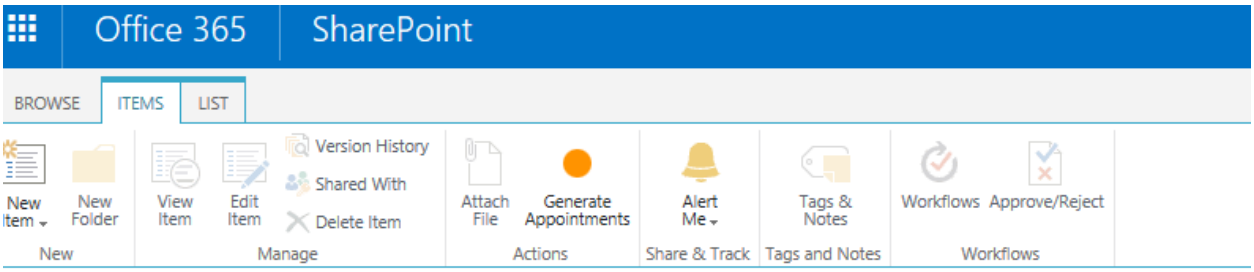
## 5.5 Post Deployment Configuration

### 5.5.1 BotUrlEmbed in Web.Config file of HealthCare.Portal

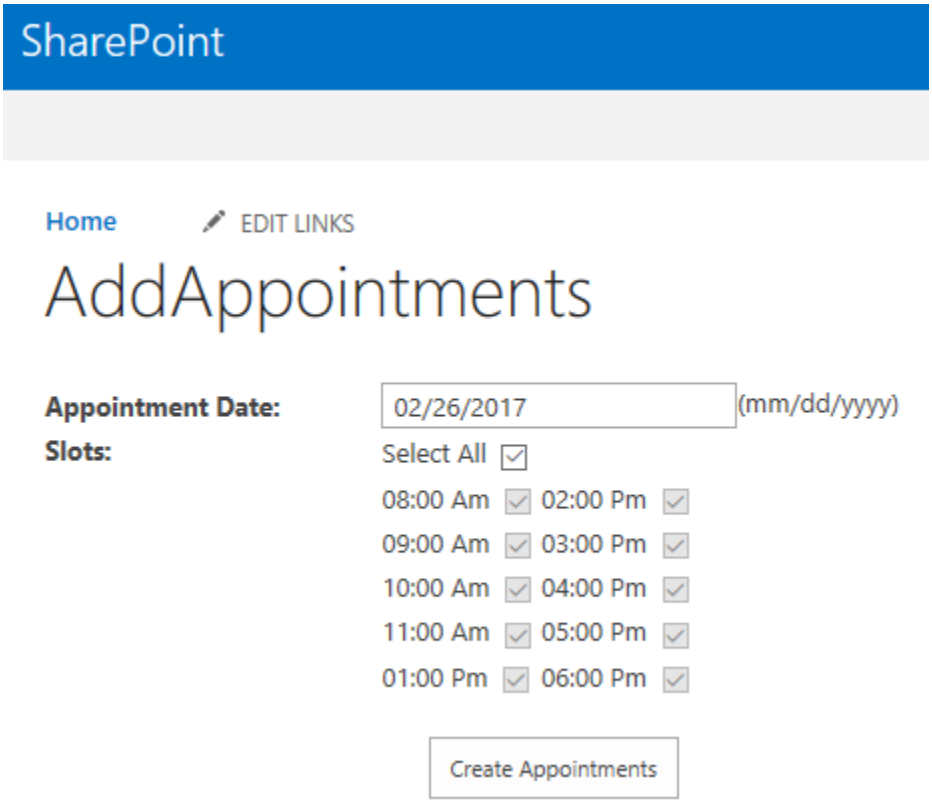
- Go to section 4.4 and Get URL Embed code
- Note down the BotUrlEmbed
- Update the Web.Config of HealthCare.Portal with above value
- Republish the HealthCare.Portal project again using Visual Studio

## 5.5.2 Generate the Meeting Slots

- Open the SharePoint Site Collection created in section 4.1
- Login as site collection administrator
- Go to **Settings → Site Contents**
- Click on "**Available Dates**" list
- On bottom, left corner, there will be a link to change to classic view, click on "**Return to classic SharePoint**"
- Click on **Items** tab and then click on **Generate Appointments**



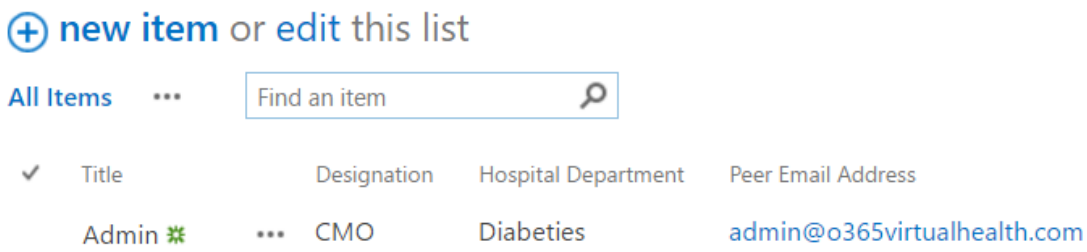

- Fill in the details as shown below (Date and Check Select All Checkbox)



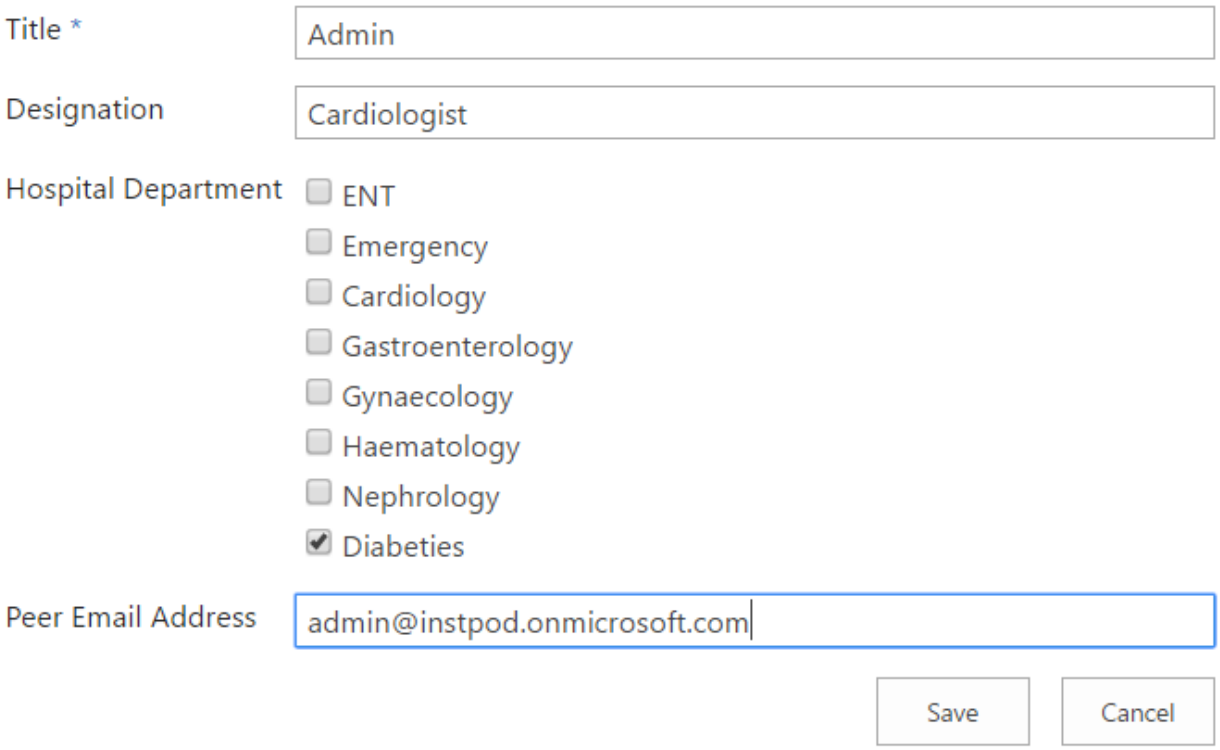

- Click **Create Appointments**
- It will show confirmation message

### 5.5.3 Populate Peers List

- Open the SharePoint Site Collection created in section 4.1
- Login as site collection administrator
- Go to **Settings → Site Contents**
- Click on "**Peers**" list
- On bottom, left corner, there will be a link to change to classic view, click on "**Return to classic SharePoint**"
- Click on "**new item**"

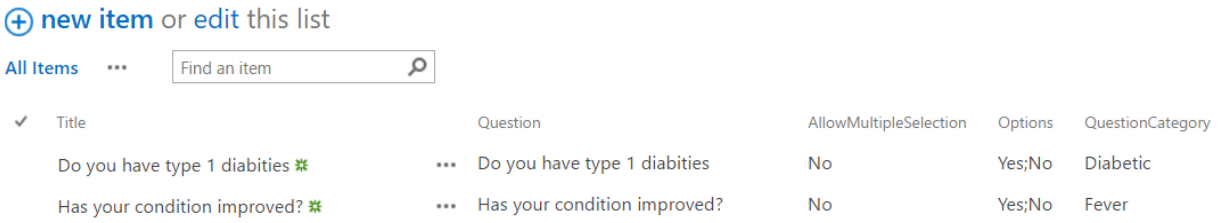



- Add details of admin and other doctors as below and click on "**Save**"

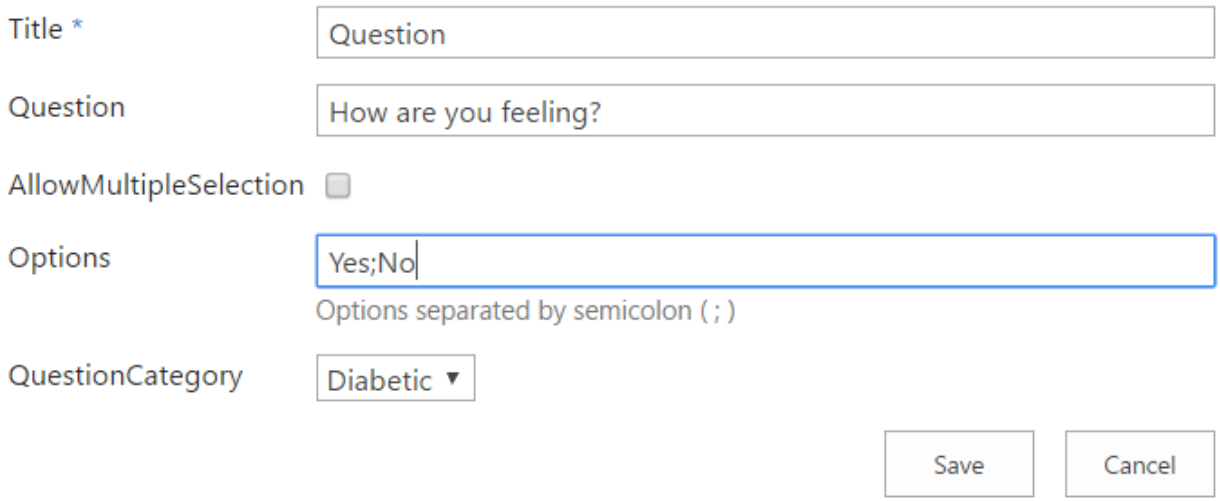


### 5.5.4 Populate Questionnaire List

- Open the SharePoint Site Collection created in section 4.1
- Login as site collection administrator
- Go to **Settings → Site Contents**
- Click on "**Questionnaires**" list
- On bottom, left corner, there will be a link to change to classic view, click "**Return to classic SharePoint**"
- Click on "**new item**"




- Add your question to the proper category and click on "**Save**".




# 6 Post Deployment Validations

Validate Home Page is Opening

- Open the HealthCare Portal Web App
- Login as Active O365 Tenant user
- Home page should look like below (Since there is no appointment)


Appointments

## Validate Book Meeting

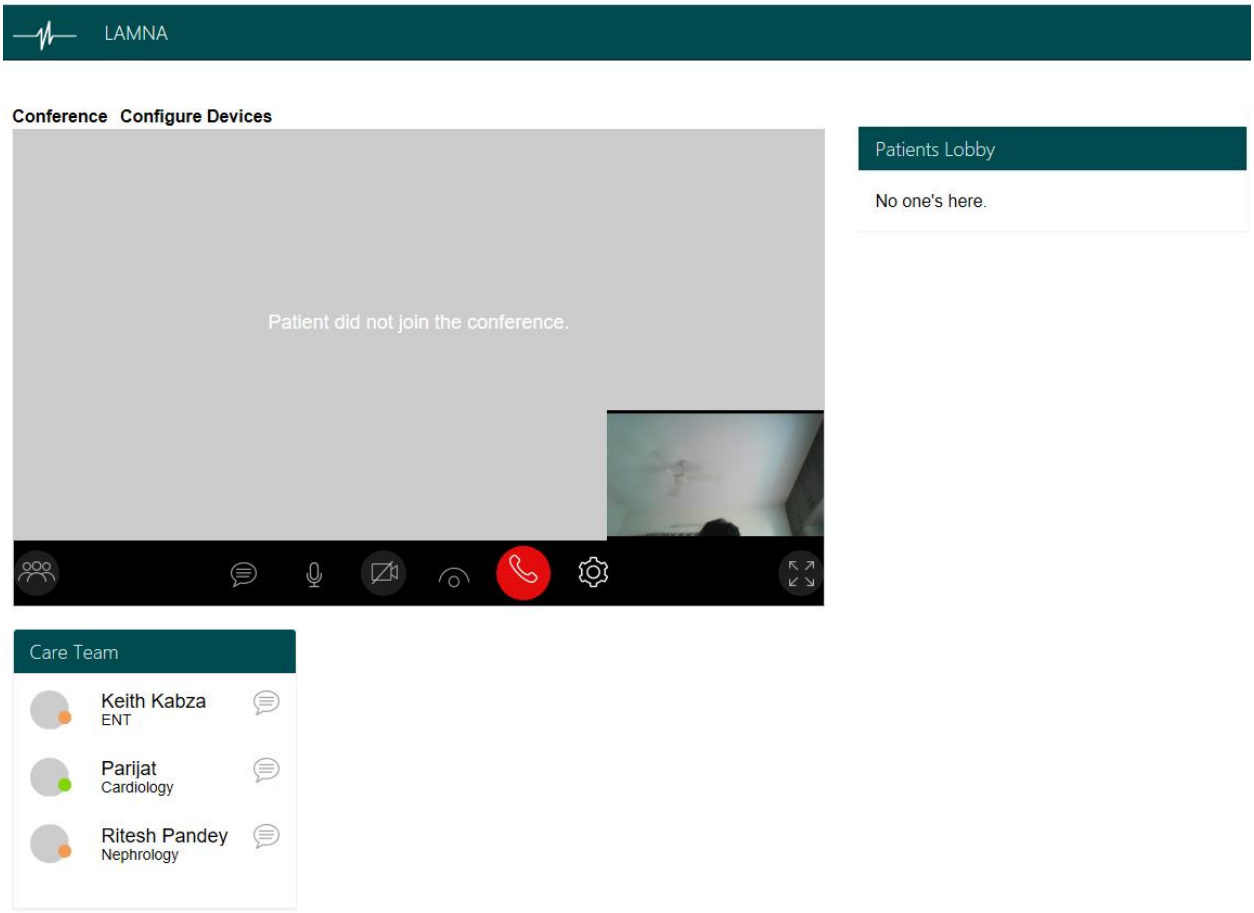
- Click on Book Meeting link on top navigation
- Fill in the details
- Click Submit
- Dashboard should show the meeting in a grid as shown below


Appointments

| Subject | Doctor Name | Patient Name | Start Date/Time | End Date/Time | Join as Doctor | Join as Patient |
|---|---|---|---|---|---|---|
| Appointment Details | Dr. Keith Kabza | Rhonda Losey | 9/27/2173 12:00:00 AM | 9/27/2173 1:00:00 AM | Join as Doctor.. | Join as Patient |
| Appointment Details | Dr. Keith Kabza | Michael Clifford | 9/27/2173 12:00:00 AM | 9/27/2173 1:00:00 AM | Join as Doctor.. | Join as Patient |

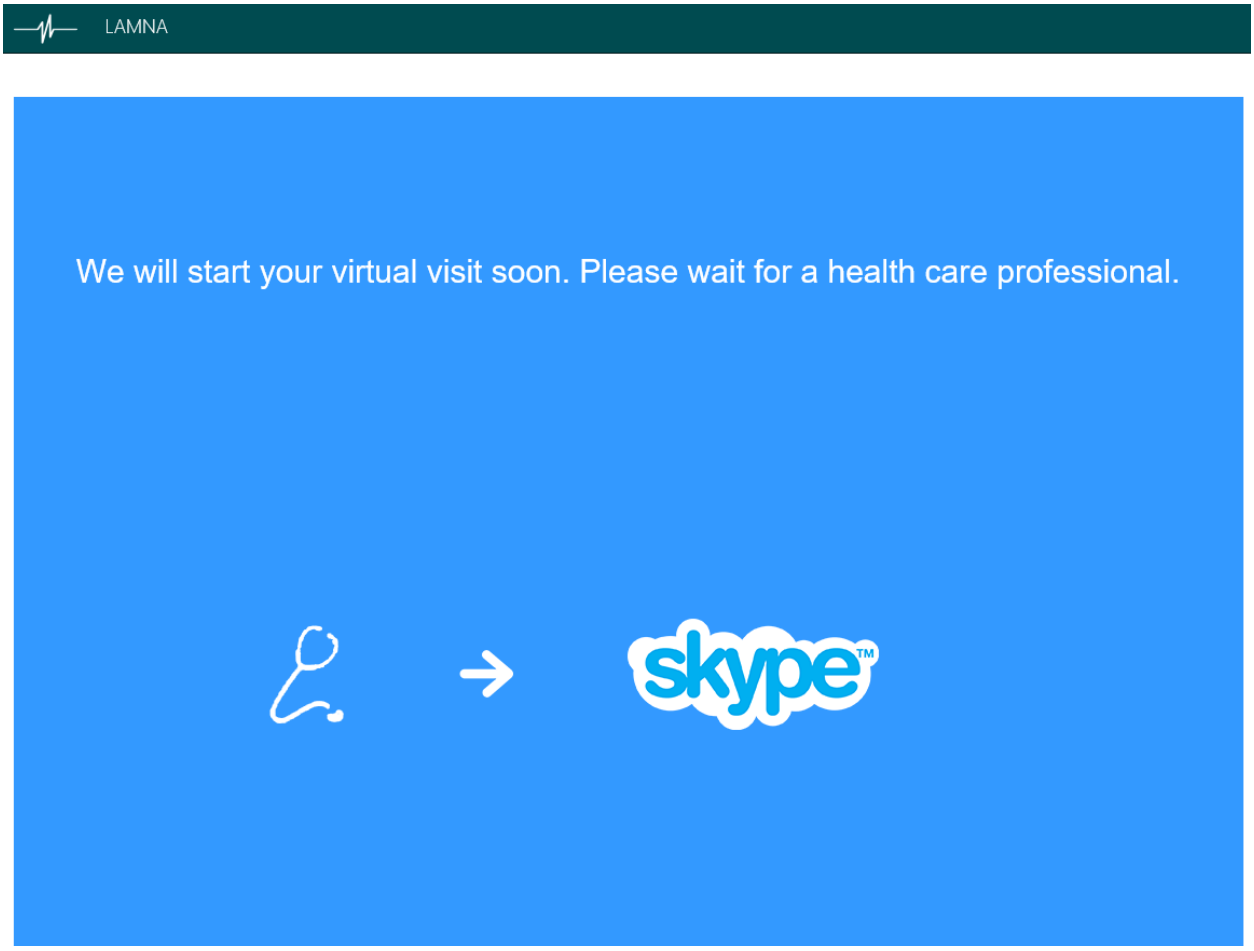
## Join a Conference as Doctor

- Home page, Click on the Join as Doctor Link
- It will open the page in a new tab
- Wait for the page to load
- It should look like below

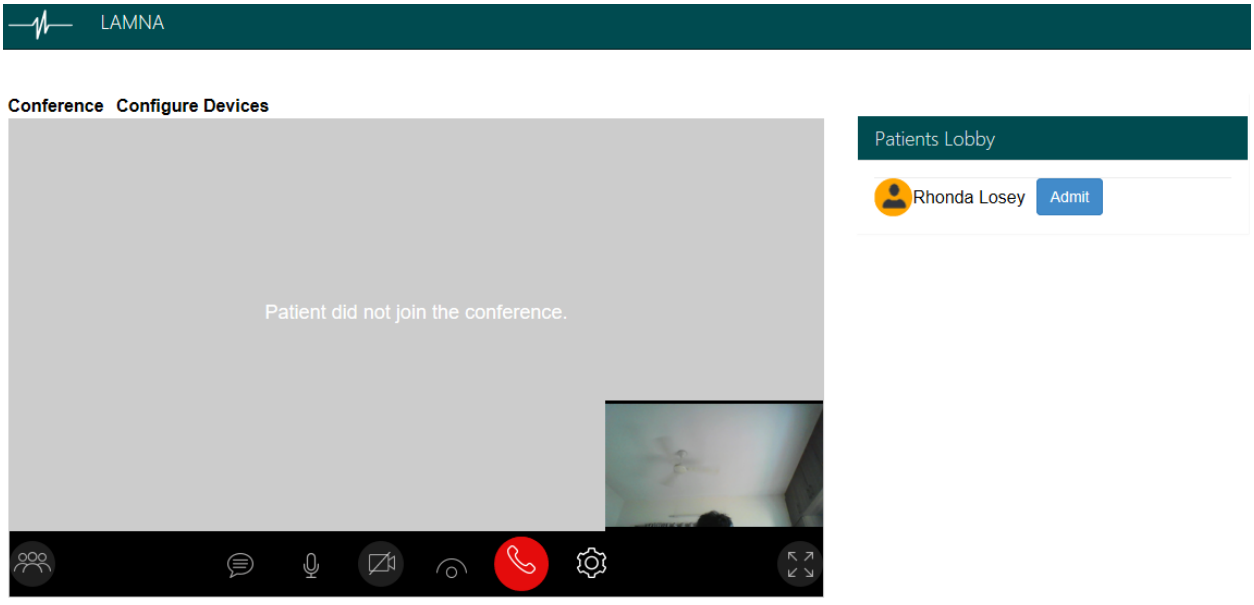



### Join Conference as Patient

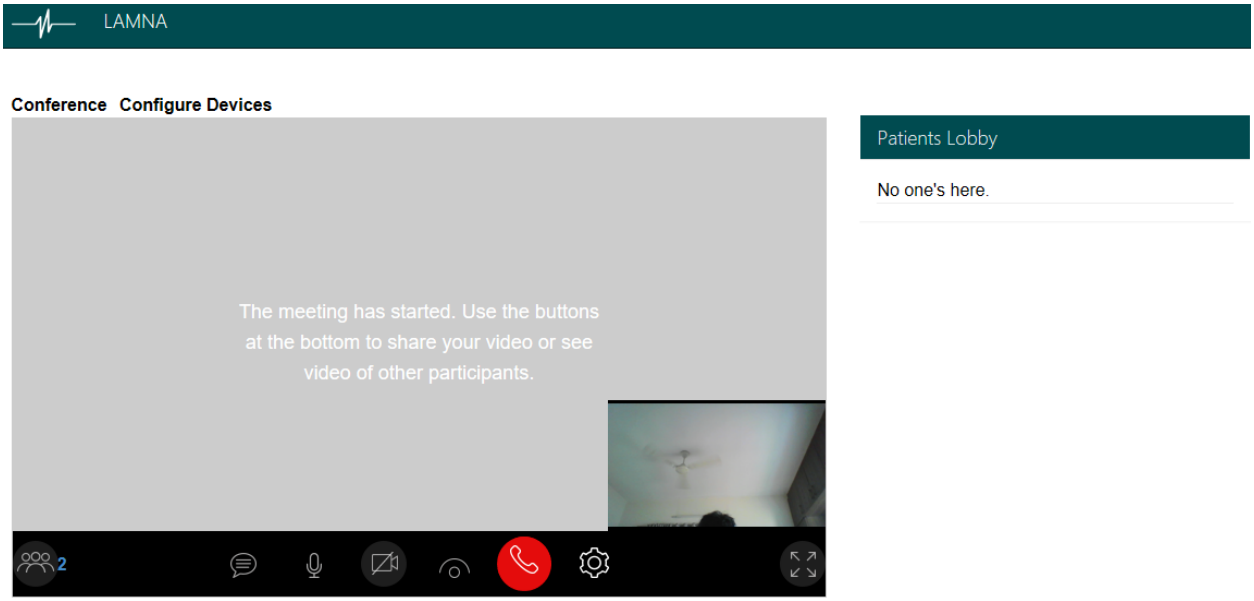
- Go to dashboard
- Join the copy the URL of the patient link from the meeting which Doctor has joined earlier
- Open a new browser window
- Paste the URL
- Wait for the page to load, the patient will wait in lobby



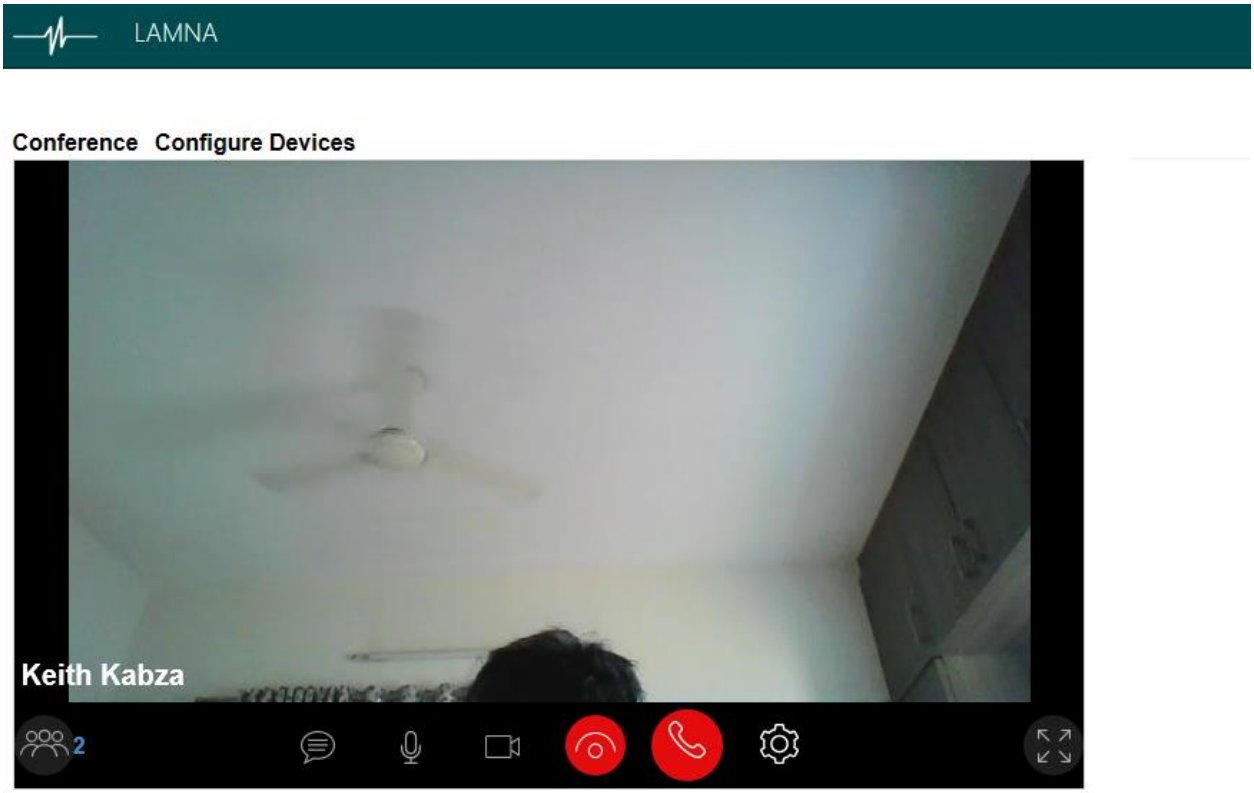

- Go to the doctor window
- Click on Admit




- Meeting starts, and doctor window will look like below

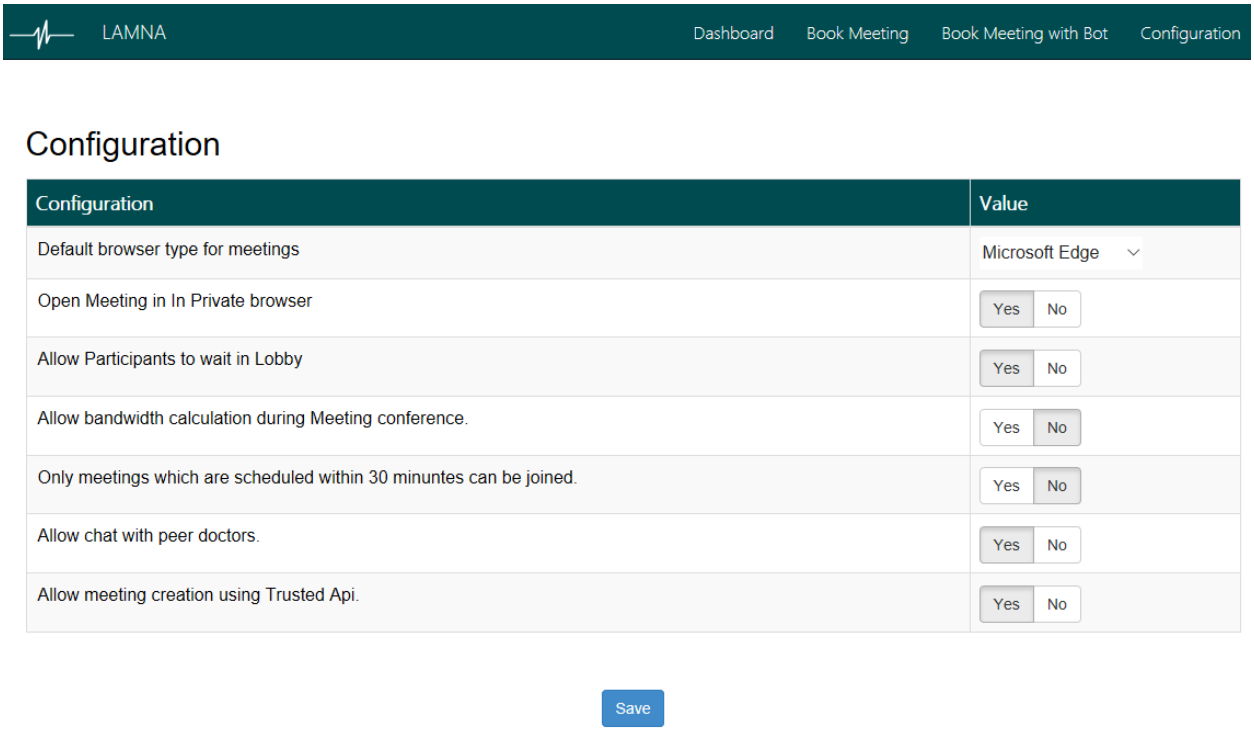



- Go to Patient Window, it will look like below




### Verify Configuration Page

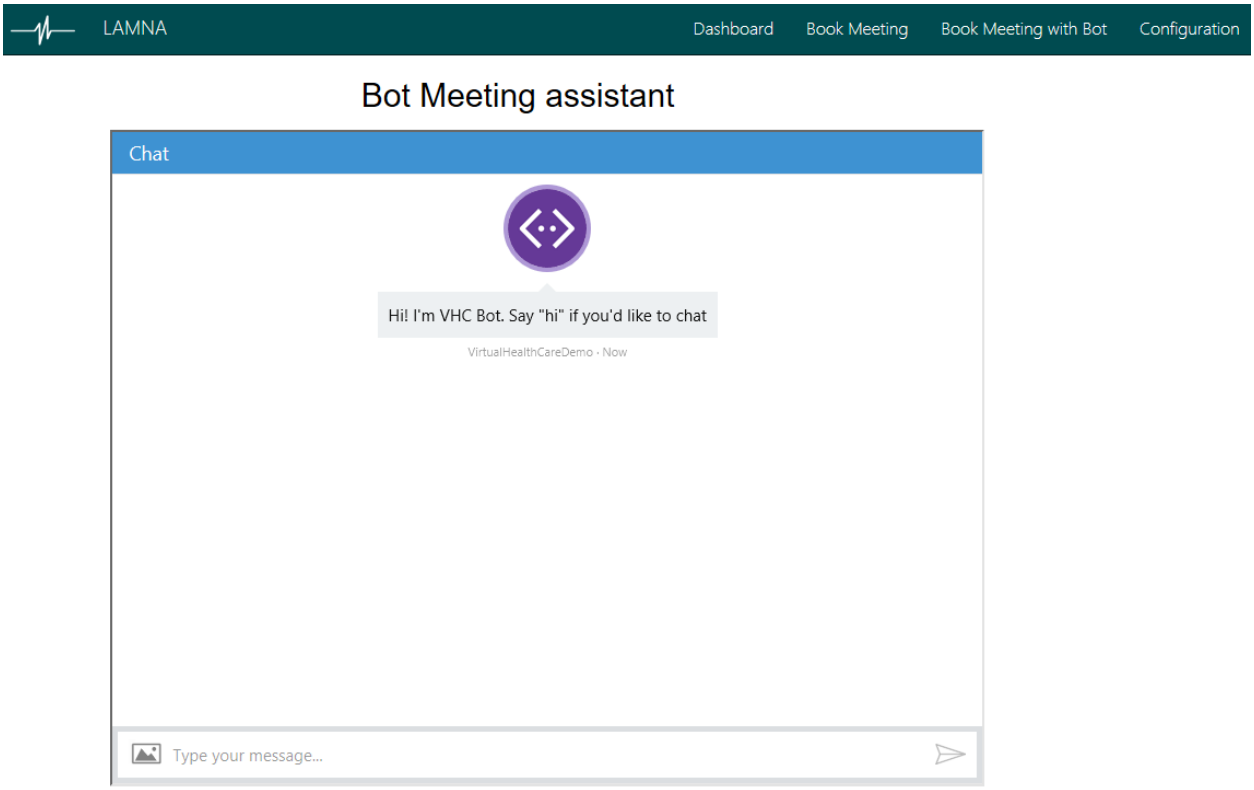
- Click on the Configuration link available in the navigation
- If the user is member of "**VirtualPatientCare Admin**", then page will load, and user will see as below




- Otherwise, user will see an unauthorized message on the page.

### Validate Book Meeting with Bot Page

- Click on the "Book meeting with bot" link available in Global Navigation
- It will load the Bot page as shown below




**You may try typing below phrases like:**
"Book appointment for tomorrow",
"Book appointment on 10/27/2016",
"Cancel my appointment"