Meeting Rooms User Manual

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1. Introduction

2. Azure setup

In order to enable the Meeting Room VM to work properly in a company's Azure environment, a few steps must be followed.

2.1. Prerequisites

- 1. An Azure subscription
- 2. Azure Portal general knowledge
- 3. An Azure Active Directory with users
- 4. Self Signed Certificate creation knowledge

2.2. Step 1 - Azure Active Directory **user** setup

In this step you will create an account in your company's Active Directory that is used by the Meeting Rooms Server to be impersonated while calling Exchange Online EWS

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1. Go to your **Azure Active Directory** page in Azure management portal





3. Select **Users** tab and select **Add User** from the utility bar

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		Motilor 2	motilor2@iQuestDEV.onmicrosoft.com	Windows Azure Active Directory	
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4. Create a user named

meeting.room@yourdomain.onmicrosoft.com with user role permissions

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	s. c. iquest technologies s.r.l.	
Default Dectory S. C. Ruest Tech HOME HOME	ADD USER Tell us about this user TYPE OF USE New user in your organization USE NAME © (QuestDEV.comicrosoft.com) () () () () () () () () () (μ μ stary stary stary stary stary stary stary stary stary stary stary stary (c)
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Follow the 3 steps of the creation wizard providing the required information about the user.

2.3. Step 2 – Azure Active directory Native application setup

The Meeting Room server solution comes with an iOS and an Android client companion applications that must be integrated with the Azure Active Directory for OAuth2.0 authentication.

In order to integrate the two mobile apps an Active Directory Native application must be created in Azure. To create the Native application please follow the following steps.

1. In your Azure management portal, go to your Active Directory tab and select your company's Active Directory directory



2. Select the **Applications** tab





3. Select Add

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<>	meetingroom meetingroom.native	S. C. iQuest Technologies S.R.L. S. C. iQuest Technologies S.R.L.	Web application Native client application	http://iocalhost
1	Office 365 Exchange Online →	Microsoft Corporation	Web application	http://office.microsoft.com/outlook/
S	Office 365 Management APIs →	Microsoft Corporation	Web application	https://www.thp/au.au.au.au.au.au.au.au.au.au.au.au.au.a
	Office 365 SharePoint Online	Microsoft Corporation	Web application	http://office.microsoft.com/sharepoint/
				
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4. In the dialog that opens select **"Add an application my** organization is developing"

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5. In the next step select the bullet next to **"Native client application"** and give it a name (e.g. meetingroom.native)

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Microsoft Azure	ADD APPLICATION ADD APPLICATION Tell us about your application MARE metingroom.astive Type Office Over a precision analyzes was are Over a precision MARE	
	office 3	http://cut/file/aurowebilits.net/ http://clfice.microsoft.com/bharepoint/ • • • •

6. On the second step in the native application configuration wizard add a **Redirect URI** that is representative to your company (e.g. http://iquestgroup.com) (this does not have to be a physical endpoint)

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7. Save the **Client ID** string for later configuration of the mobile application clients

8. On the native application screen select the configure tab and scroll to the bottom and click on **"Add application"**

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9. On the **Permissions to other applications** window that opens add the **Office 365 Exchange Online** application and confirm

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Office 3	365 Management	2		2		
Office 3	365 SharePoint On	8		11		
Office 3	365 unified API (pr	0		21		
Power	BI Service	0		7		
Window	ws Azure Active Di	Х 2		4		
Window	ws Azure Service	0		1		
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10. Back on the native application configuration screen select Office 365 Exchange Online - **Delegated Permissions** and check both **Read user calendars** and **Access mailboxes as the signed-in user via Exchange Web Services.**



2.4. Step 3 - Azure Active Directory Web API application setup

In order for the Meeting Room system to integrate with your company's Exchange Online and Outlook Online server it must be first setup in Azure Active Directory so that it can authenticate and obtain an access token for Exchange Online and Outlook Online APIs.

To integrate Meeting Room with Azure please follow the steps outlined below:

1. In your Azure management portal, go to your Active Directory tab and select your company's Active Directory directory



2. Select the **Applications** tab





3. Select Add

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<>	meetingroom meetingroom.native	S. C. IQuest Technologies S.R.L. S. C. IQuest Technologies S.R.L.	Web application Native client application	http://iocalhost
R	Office 365 Exchange Online →	Microsoft Corporation	Web application	http://office.microsoft.com/outlook/
S	Office 365 Management APIs →	Microsoft Corporation	Web application	
	Office 365 OAuth2 Sandbox	Contoso	Web application	https://oauthplay.azurewebsites.net/
	Office 365 SharePoint Online	Microsoft Corporation	Web application	http://office.microsoft.com/sharepoint/
				
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4. In the dialog that opens select **"Add an application my** organization is developing"

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5. In the next step select the bullet next to **"Web application and/or web API"** and give it a name (e.g. meetingroom.webapi)

Image: Constraint of the constr	S. C. iquest technologies USENS GROUP APPLICATION Show ADD APPLICATION Tell us about you NAME Type Office 1 Office 1	UNDER COMPANY DIRECTORY INTEGRATION	N CONTRURE REPORTS ×	Teeting room@equestgroup.com	
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6. In the last step of the application setup wizard add a **Sign-On URL** and an **App-ID URL**.

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Default Durating SC Quest Tech.u IDAR IDAR	ADD APPLICATION App properties sick-on uit() http://ocalhost/meetingroom • PP 10 Uit()	×	APURL P Control APURL P Control Contro Contro Contro Control Contro

7. Save the application **Client ID** from the configuration page.

8. Open **App Endpoints** from the lower control belt. From one of the listed URLs copy the tenant id like in the image below for later proxy server configuration.

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 Select the **Configure** tab in your new created application and copy the Client ID string for later use in the web application setup. As the **App ID-URI** add an URI that is unique to your active directory applications (e.g. http://localhost/meetingroom)

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- © दि	$\langle \epsilon \rangle$	APPLICATION IS MULTI-TENANT	YES NO	Ø
Z	meetingroom.we	CLIENT ID	19453d59-0b09-496d-b879-cb15918eff06	0
 	meetingroom meetingroom.native Office 365 Exchang Office 365 Manage	USER ASSIGNMENT REQUIRED TO ACCESS APP	VES NO	0
 <th>Office 365 OAuth2 Office 365 SharePo</th><th>keys</th><th></th><th>0</th>	Office 365 OAuth2 Office 365 SharePo	keys		0
S		Select du VALID FROM	EXPIRES ON THE KEY VALUE WILL BE DISPLAYED AFTER YOU SAVE IT.	
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80		APP ID URI	http://locahost/meetingroom	0
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10. On the native application screen select the configure tab and scroll to the bottom and click on **"Add application"**

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80		Add application				
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11. On the **Permissions to other applications** window that opens add the **Office 365 Exchange Online** application and confirm

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Permi	issions to other	r applications		×
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NAME		APPLICATION PERMISSIONS	DELEGATED PERMISSIONS	SELECTED
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Office 365	5 SharePoint On	8	11	
Office 365	S unified API (pr	0	21	
Power BI	Service	0	7	
Windows	Azure Active Di 💥	2	4	
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12. Back on the application configuration screen select Office 365 Exchange Online - **Application Permissions** and check both **Read** calendars in all mailboxes and Use Exchange Web Services with full access to all mailboxes.

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∲		permissions to other a	Read calendars in all mailboxes application Send mail as any user Use Exchange Web Services with full access to	
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13. Create a Self Signed Certificate with a 2048 key length

#makecert -r -pe -n "CN=MyCompanyName MyAppName Cert" -b 12/15/2015 -e 12/15/2016 -ss my -len 2048

Save this certificate in a .p12 format for later use.

14. Retrieve the certificate **value** and **thumbprint**

Note: The instructions below show using Windows PowerShell to get properties of a x.509 certificate. Other platforms provide similar tools to retrieve properties of certificates.

\$cer = New-Object System.Security.Cryptography.
X509Certificates.X509Certificate2
\$cer.Import("mycer.cer")
\$bin = \$cer.GetRawCertData()
\$base64Value = [System.Convert]::ToBase64String(\$bin)

\$bin = \$cer.GetCertHash()
\$base64Thumbprint = [System.Convert]::ToBase64String(\$bin)

\$keyid = [System.Guid]::NewGuid().ToString()

Store the values for **\$base64Thumbprint**, **\$base64Value** and **\$keyid**, to be used in the next step.

15. Download the application manifest from the Azure Portal

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*	Office 365 Exchang Office 365 Manage		
•	Office 365 OAuth2 Office 365 SharePo	single sign-on	
$\langle \cdots \rangle$		APP ID URI http://localhost/meetingroom	0
		REFLY URL http://localhost	0
		(ENTER A REPLY URL)	
80		permissions to other applications	0
4		Office 365 Exchange Online Application Permissions: 2 Delegated Permissions: 0	
\$		Add application	
		Upload Manifest	
_+	NEW		

],

16. In the manifest replace the empty "*KeyCredentials":* [], property with the following JSON.

"keyCredentials": [

```
{
  "customKeyIdentifier": "$base64Thumbprint_from_above",
  "keyId": "$keyid_from_above",
  "type": "AsymmetricX509Cert",
  "usage": "Verify",
  "value": "$base64Value_from_above"
}
```

17. Save and upload the manifest back in Azure. Save all changes and wait for Azure confirmation that the operation has completed successfully.

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80		Office 365 Exchange	• Online	Application	Permissions: 2	Delegat	ed Permissions: 0			
0		Add	application		Download Manifest					
					Upload Manifest					
	NEW	microsoft.com#				DELETE			2	

3. Values to save for client application and proxy server setup

3.1. Meeting room impersonated user email

The impersonated user email is required for user impersonation when the proxy VM tries to access the EWS SOAP API. The user email can be found at chapter 2.2 - Step 4

3.2. Client application

The client applications require the Client ID of the Azure Native application. The value can be found in the native application configuration guide at chapter 2.3 - Step 7

3.3. Web API application

The proxy server VM requires the generated Self Signed Certificated, Client ID of the Azure Web API and the Tenant ID for the created application. The three values can be found in the Web API configuration guide at <u>chapter 2.4</u> – <u>Step 13,chapter 2.4 – Step 7</u> and <u>chapter 2.4 – Step 8</u>.

4. VM Proxy configuration

4.1. Prerequisites

- Basic SSH knowledge
- Basic Linux knowledge
- Basic Linux CLI knowledge
- Basic Linux editing tools knowledge (e.g. nano, vi)

4.2. Connecting to the Azure Vitrual Machine

4.3. Configuring the Meeting Room Proxy Server .properties

In this step you will configure the Meeting Room Proxy Server with information about your environment in order for the Proxy Server to be able to connect to your Azure AD and Office 365 Exchange Online.

All the steps below are mandatory unless instructed otherwise. Please complete them in order for the system to function properly.

The properties are located in the Tomcat webapps folder. In order to begin configuration please **navigate to the webapps folder** by typing in the terminal:

#cd /usr/share/tomcat/webapps/meetingroom/WEB-INF/classes/

The tutorial assumes using Linux's **nano** tool to edit the .properties files. Any other editing tool can be used for editing these files.

To begin editing a .properties file type in the terminal while in the /usr/share/tomcat/webapps/meetingroom/WEB-INF/classes/

#sudo nano <file-name>.properties

To save the edited files press "Ctrl+X", confirm saving when asked with "Y" and confirm the file override with "Enter". To cancel the operation after "Ctrl+X" press "N" to abort saving the file.

After all configurations are complete please restart the proxy server. See <u>Chapter 5</u> for instructions on how to do this.

4.3.1.Copying **Apple push certificates** files

In order to enable push notifications for Apple devices please **copy the Apple push certificates** for the iPhone and iPad applications at the location /usr/share/tomcat/webapps/meetingroom/WEB-INF/classes/

4.3.2. Editing properties in the **application.properties** file

This properties set is needed to configure the Meeting Room Proxy Server to be able to send push notifications to the iPhone, Android and iPad mobile applications.

In the table below you will find the properties that need to be edited in the application.properties file together with their respective descriptions and example.

Property name	Description	Example
device.notification.gcm. apiKey	This property represents the Google Cloud Messaging Api Key used to sent push notifications to Android mobile devices	AIzaSyDNP4igvXLR2GY oaKezYFpRRPjjH- bbSBY
device.notification.apple Certificate.certPath	This property represents the iPhone push notification certificate file name present in the /classes directory	iphone_push_cert.p12
device.notification.apple Certificate.certAlias	This property represents the iPhone push notification certificate's certificate alias name. The alias was set when the certificate was created	apns iphone alias
device.notification.apple Certificate.certPwd	This property represents the iPhone push notification certificate password. This password was set when the	iPhone1234



	certificate was created
device.notification.apple Certificate.certPath.pad	This property represents the ipad_push_cert.p12 iPad push notification certificate file name present in the /classes directory
device.notification.apple Certificate.certAlias.pad	This property represents the apns ipad alias iPad push notification certificate's certificate alias name. The alias was set when the certificate was created
device.notification.apple Certificate.certPwd.pad	This property represents the iPad1234 iPad push notification certificate password. This password was set when the certificate was created

4.3.3.Editing properties in the **office365.properties** file

This properties set is needed in order to enable the Meeting Room Proxy Server to be able to access meeting rooms information from your company's Azure Active Directory and to obtain Access Tokens in order to access the Office 365 API and Exchange Online API.

In the table below you will find the properties that need to be edited in the office365.properties file together with their respective descriptions and example.

Property name	Description	Example
office365.exchange.onli ne.impersonated.smtp	This property represents the user email needed to be set as an impersonated account when making SOAP requests to Exchange Web Services. The creation of this account was done in chapter 2.2 – Step 4	meeting.room@contos o.onmicrosoft.com
office365.client.id	This property represents the Azure Active Directory Web API	44ab8ae8-973d-4104- 8ac3-33fc5b023bab



	application's Client ID and it has been generated when the application was created. To find it please see in <u>chapter 2.4 – Step 7</u>	
office365.tenant.id	This property represents your company Tenant ID . This property has been generated when the Azure Active Directory Web API application was created. To find it please see in <u>chapter 2.4 – Step 8</u>	f69b1501-2f02-4ab2- b722-a64208f9c095
office365.certificate.na me	This property represents the file name of the certificate used by the proxy for SSL authentication with Azure Active Directory. This certificate is the one that was created in <u>chapter 2.4 – Step 13</u>	azuread-certificate.p12
office365.certificate.pas sword	This property represents the password for the Azure Active Directory certificate used for SSL authentication. This password is the one that was used when the certificate was generated in chapter 2.4 – Step 13	azureCertPassword

4.3.4.Editing properties in the **meeting-rooms.properties** file

This properties set is needed in order for the Meeting Room Proxy Server to be able to configure itself with values on initialization.

In the table below you will find the properties that need to be edited in the meeting-rooms.properties file together with their respective descriptions and example.

Property name	Description			Example	
mailbox.domain	This	property	represents	the	contoso.onmicrosoft.co





mail mailbox domain of the	m
account created earlier (see	
chapter 2.2 – Step 4). It is used	
to generate secure basic	
authentication credentials for	
secure client-to-server API	
access	

4.3.5.Editing properties in the **mail-config.properties** file

This properties set is needed in order to enable the Meeting Room Proxy Server to notify via email a support person or group in the eventuality of a critical system failure (e.g. server crash, Exchange configuration error). The generated mail can then be forwarded to the appropriate support entity for issue remediation.

In the table below you will find the properties that need to be edited in the mail-config.properties file together with their respective descriptions and example.

Property name	Description	Example
mail.host	This property represents the mail host address of the SMTP mail service to be used for email sending.	smtp.gmail.com
mail.username	This property represents the email username of to use for email sending.	meetingroom.reporter @gmail.com
mail.password	This property represents the email account password.	Password12345



5. Starting the Meeting Room Proxy Server

There are three operations available to interact with the Meeting Room Proxy Server

5.1. Starting the Proxy Server

To start the Meeting Room Proxy Server please type in the terminal:

#sudo service tomcat start

5.2. Restarting the Proxy Server

To restart the Meeting Room Proxy Server please type in the terminal:

#sudo service tomcat restart

5.3. Stopping the Proxy Server

To stop the Meeting Room Proxy Server please type in the terminal:

#sudo service tomcat stop

Document Control Section

Record of Changes

No.	Version	Date	Status	Who	Description
1	0.0.1	2015.06.10	Draft	Marius Gherman	Azure Setup Draft
5	0.0.2	2015.06.11	Draft	Marius Gherman	Added .properties configurations
6					
7					

Recipients of Document						
No. Ver	sion Date	Who	Description			
1						
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