



Protecting OWA and ActiveSync with FortiWeb

FORTINET DOCUMENT LIBRARY

[HTTPS://docs.fortinet.com](https://docs.fortinet.com)

FORTINET VIDEO GUIDE

[HTTPS://video.fortinet.com](https://video.fortinet.com)

FORTINET BLOG

[HTTPS://blog.fortinet.com](https://blog.fortinet.com)

CUSTOMER SERVICE & SUPPORT

[HTTPS://support.fortinet.com](https://support.fortinet.com)

FORTINET COOKBOOK

[HTTPS://cookbook.fortinet.com](https://cookbook.fortinet.com)

FORTINET TRAINING & CERTIFICATION PROGRAM

[HTTPS://www.fortinet.com/support-and-training/training.html](https://www.fortinet.com/support-and-training/training.html)

NSE INSTITUTE

[HTTPS://training.fortinet.com](https://training.fortinet.com)

FORTIGUARD CENTER

[HTTPS://fortiguard.com/](https://fortiguard.com/)

END USER LICENSE AGREEMENT

[HTTPS://www.fortinet.com/doc/legal/EULA.pdf](https://www.fortinet.com/doc/legal/EULA.pdf)

FEEDBACK

Email: techdocs@fortinet.com

TABLE OF CONTENTS

Overview	4
Securing OWA with FortiWeb	7
FortiWeb configuration	8
Step 1 - LDAP query	8
Step 2 - Authentication server pool	8
Step 3 - Site publish rule	9
Step 4 - Site publish policy	10
Step 5 - X-Forwarded-For rule	10
Step 6 - Web protection profile	11
Step 7 - Virtual server	12
Step 8 - Server pool	12
Step 9 - Certificates	12
Step 10 - Server policy	12
LDAP query best practices and tips	13
Outlook Web App configuration	14
Securing ActiveSync with FortiWeb	16
Use Case 1: Scanning ActiveSync Email Attachments	16
Exchange 2010	16
Exchange 2013/2016/2019	17
FortiWeb Configuration	18
Use Case 2: Managing Authentication and SSO to ActiveSync	21
Exchange 2010	22
Exchange 2013/2016/2019	23
FortiWeb Configuration	24

Overview

ActiveSync is a Microsoft technology that has brought data synchronization and server access to hundreds of millions of mobile devices since its introduction. In over 20 years it has evolved to be the foundation of mobile access to today's latest email and server products, including Microsoft Exchange, Office 365, and IBM Notes. Chances are you're using ActiveSync if your organization uses Microsoft Exchange and you're accessing your email on an iOS, Android, Windows Mobile, or BlackBerry device.

Along with ActiveSync, Outlook on the Web is the standard for browser based access to Exchange and Office 365 for email, contacts, tasks, and other services managed by these servers. Outlook for the Web has had many previous names including Exchange Web Connect, Outlook Web Access, and Outlook Web App. Most people know it as OWA for Outlook Web Access. Both ActiveSync and OWA are widely used; however, they present a security challenge to IT teams, as the data sent from a mobile device or a web browser could bypass traditional threat detection systems in certain situations.

The security loophole with ActiveSync and OWA

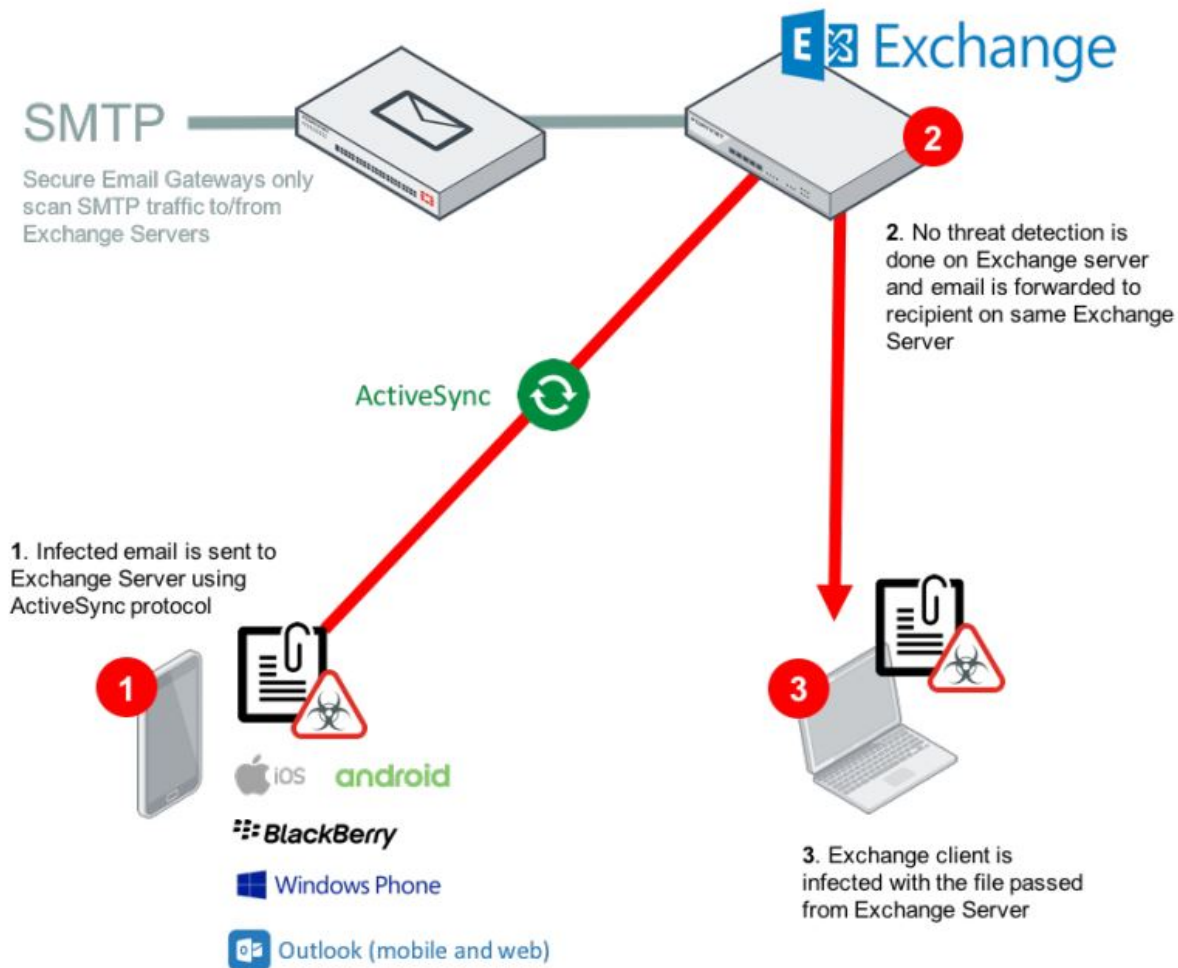
When remote users send and receive emails using ActiveSync or OWA, the server directly communicates with the devices, bypassing email protection services that scan SMTP traffic. Secure Email Gateways (SEGs) only scan inbound and outbound emails from users that are external to the communications server using SMTP.

The ActiveSync protocol is based on XML and uses HTTPS to communicate to the server. OWA is a browser-based method that communicates to the server using HTTP and HTTPS. SEGs have no visibility to this traffic and can't intercept threats that may be hidden inside.

Using Microsoft Exchange as an example, if a remote user sends an email infected with malware using their mobile device or OWA to a recipient outside the organization's Exchange Server, the email would be flagged and acted upon by the SEG. However, recipients on the same Exchange Server as the mobile or OWA user would receive the infected email, spreading the threat or possibly sending it to other users on the Exchange Server.

Many organizations need to control, secure, and protect ActiveSync and OWA communications for many reasons ranging from basic security hygiene to compliance. For example, ActiveSync and OWA email must be scanned for threats as part of ISO 27001 certification.

The following figure shows that remote users send email and attachments directly to the Exchange Server, bypassing traditional email security.

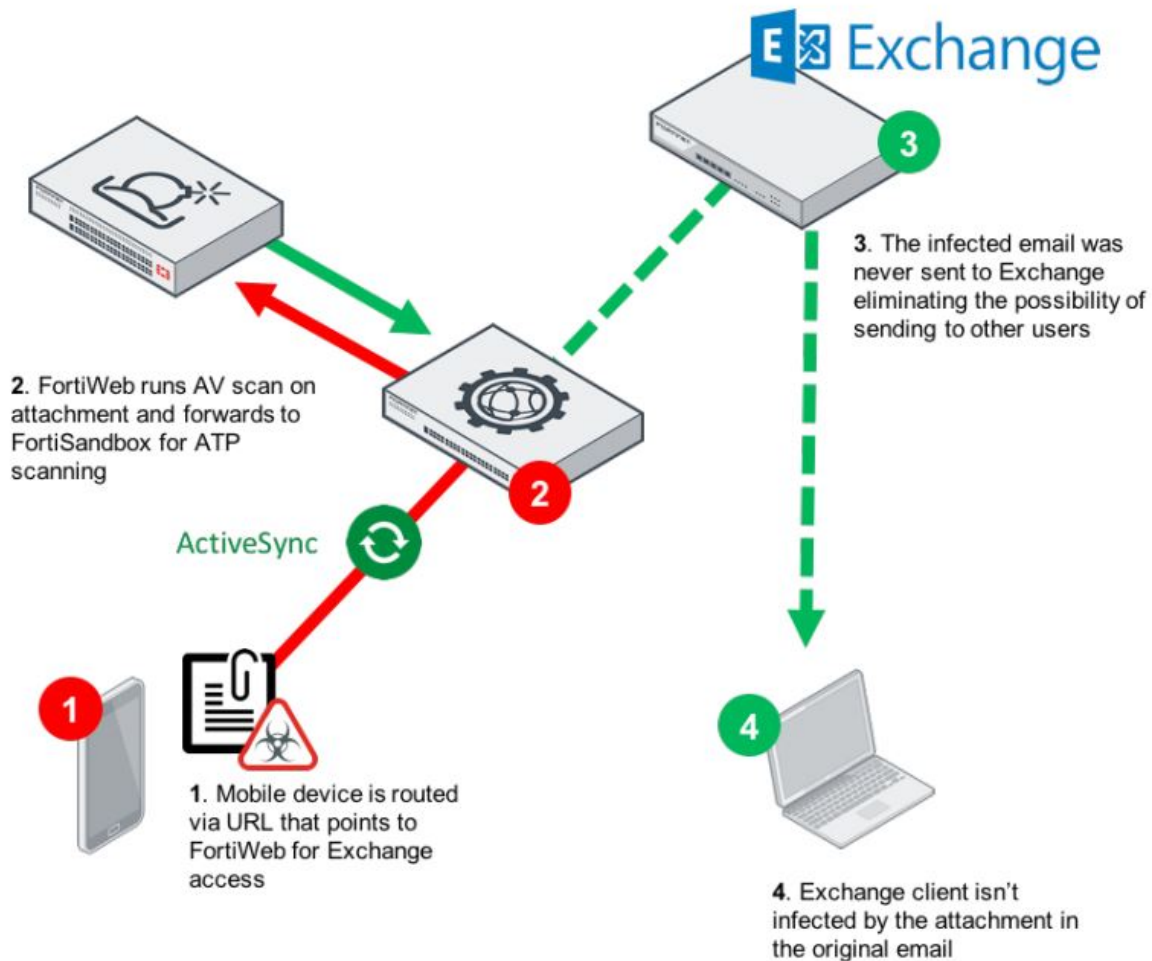


FortiWeb ActiveSync and OWA scanning

In addition to its core web application firewall functionality, FortiWeb can be deployed to publish applications, provide SSO, and manage authentication delegation. Many Fortinet customers use FortiWeb as a replacement for the discontinued Microsoft Threat Management Gateway to publish Microsoft Exchange and other Microsoft applications.

Using this functionality, FortiWeb can be deployed as a proxy for ActiveSync and OWA. This means that any remote mobile user or email client would be directed to FortiWeb. Here FortiWeb would inspect the traffic and intercept any attachments sent from the device or web browser. These attachments are then processed by FortiWeb's antivirus engine to check for threats. FortiWeb can also be configured to send attachments to Fortinet's sandboxing solutions for additional scans to detect advanced persistent threats or zero-day attacks.

The following figure shows that FortiWeb is deployed in front of Exchange Server to intercept email traffic from remote devices to scan for threats.



Benefits

By using FortiWeb to protect your ActiveSync-based applications and users accessing email with OWA, you get:

- Proven protection against threats hidden in ActiveSync and OWA attachments
- Mobile Attachment Scanning for Office 365
- Flexible deployment options including VMs, Cloud, and Appliances
- Easy-to-deploy antivirus for Exchange, IBM Notes, and other ActiveSync-based applications
- Integration with FortiSandbox and FortiWeb Cloud Sandbox for protection from advanced persistent threats
- Integrated single platform for publishing Microsoft Exchange Server applications and services

Securing OWA with FortiWeb

You can use FortiWeb's site publishing features to authorize clients that want to connect to web applications such as Microsoft's Outlook Web App (OWA).

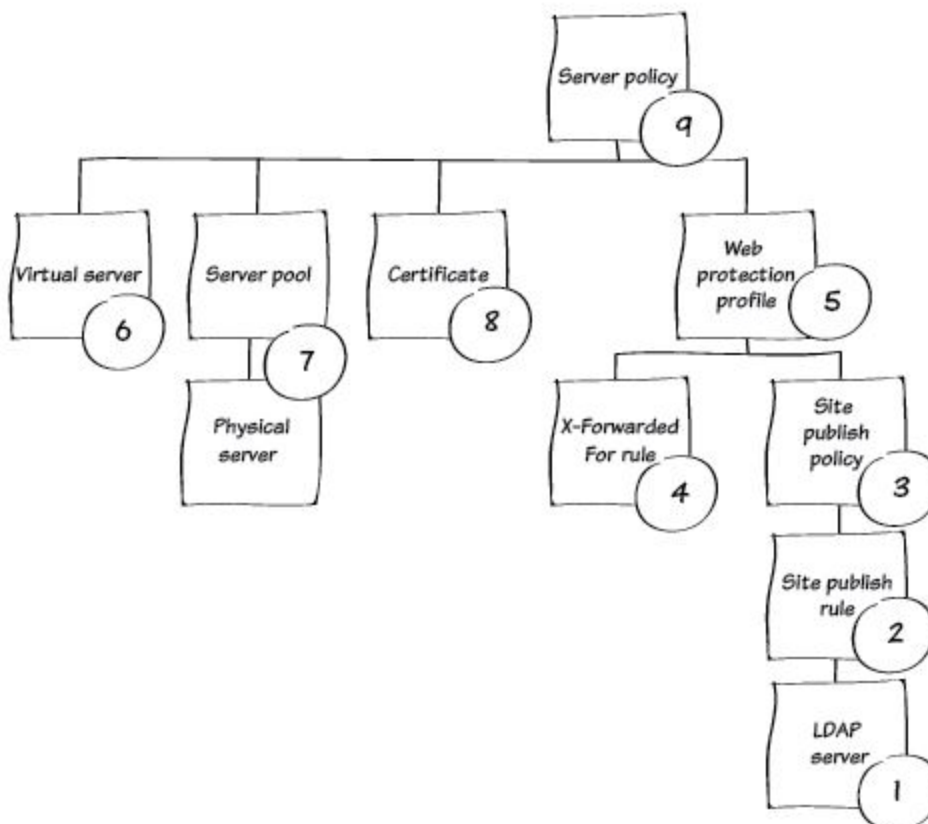
This site publishing feature can replace the web publishing functionality provided by Microsoft's Threat Management Gateway (TMG). FortiWeb also provides additional security features that protect the application after a successful login.

You create the FortiWeb configuration that publishes and protects web applications using a server policy.

A server policy is made up of several other configuration objects, including:

- Web protection profile — A set of security-related configuration objects.
- Virtual server — The IP address where FortiWeb receives client requests for access to the web application.
- Server pool — A backend server or servers where the web application is located.
- Certificate — Certificate to use for SSL encryption.

The numbers in the illustration correspond to the recipe instructions for the configuration objects.



This guide assumes that:

- Basic configuration is complete, including IP addresses, routing, and DNS information.
- The operating mode is reverse proxy (the destination for requests for the web application is a virtual server IP address on FortiWeb, not the back-end server where the application resides)

FortiWeb configuration

Step 1 - LDAP query

Go to **User > Remote Server > LDAP Server** and create a new entry.

In this example, users log in using their full mail address. Therefore, the Common Name Identifier value is the Active Directory field **userPrincipalName**.

(Other applications or configurations may require different login information.)

To obtain the **Distinguished Name** field:

1. On the domain controller, start the adsiedit.msc tool.
2. Click **Action > Connect to**.
3. Click **OK**.
4. Browse to the **CN=Users** folder.
5. Select a user (for example, CN=Administrator) and then select its properties.
6. Scroll down to **Distinguished Name** field to view the value to use in FortiWeb.

For more information on creating the LDAP query, see [LDAP query best practices and tips](#).

Step 2 - Authentication server pool

Go to **Application Delivery > Site Publish > Authentication Server Pool**.

The screenshot shows the 'New Authentication Server' dialog in the FortiWeb configuration interface. The left sidebar has 'Application Delivery' expanded, with 'Authentication' selected. The dialog fields are: ID (auto), Authentication Validation Method (LDAP), and LDAP Server (at-lab-ad). There are 'OK' and 'Cancel' buttons at the bottom right.

Create a new server pool and add the LDAP server in the pool.

Step 3 - Site publish rule

The screenshot shows the 'Site Publish Rule' dialog in the FortiWeb configuration interface. The left sidebar has 'Application Delivery' expanded, with 'Site Publish' selected. The dialog fields are: Name (mail.fortweb.lab), Published Site Type (Simple String), Published Site (mail.fortweb.lab), Path (/owa), Cookieless (Off), Client Authentication Method (HTML Form Authentication), Log Off Path Type (Simple String), Published Server Log Off Path(Optional) (/owa/logoff.owa), Authentication Cookie Timeout (0), Authentication Server Pool (dw), Authentication Delegation (HTTP Basic), Default Domain Prefix Support (Off), Append Custom Header (Off), SSO Support (On), SSO Domain (.fortweb.lab), and Alert Type (All). There are 'OK' and 'Cancel' buttons at the bottom right.

Name is a unique identifier for the rule.

Published Site and **Path** specify the URL the client uses to access OWA. FortiWeb intercepts requests for this URL and forces the clients to pre-authenticate.

Because the path for OWA starts with /owa, the URL is:

HTTPS://mail.fortweb.lab/owa

Published Server Log Off Path specifies the path FortiWeb uses to log off a user. For OWA, it is /owa/logoff.owa.

Note: For Exchange 2016 CU1 and later, the logoff path is no longer supported by Microsoft, which causes FortiWeb to be unable to recognize the logoff transaction. The following workaround is available for Exchange 2016 CU1:

1. Edit "Exchange\V15\ClientAccess\Owa\prem\15.1.1034.26\scripts\microsoft.owa.core.models.js".
2. Add this line.

```
$(document).ready(function(){ $('._ho2_2').click(function () { $('body > div:last-child ._abs_c div[role=menu] > div > div:last-child > button').on('click', function () { window.location.href= './logoff.owa' }) }) });
```
3. Save & iisreset

Without applying this community-provided workaround, FortiWeb will be unable to identify logoff requests, which means the session cookie will only expire once a user closes their browser and does not use the "Restore previous session" option when opening the browser again.

Client Authentication Method specifies how FortiWeb prompts the client to enter the authentication credentials. For example, via HTTP Basic Authentication or a predefined form (shown at right).

LDAP Server is the LDAP configuration you created earlier.

Authentication Delegation specifies whether FortiWeb sends the credentials the client enters to the back-end server.

For example, select **No Delegation** when the web application has no authentication of its own or uses HTML form-based authentication. Select **HTTP Basic** Authentication to use HTTP Authorization: headers with Base64 encoding to forward the client's credentials to the web application.

Because FortiWeb stores the credentials for the length of the session, it can forward the credentials to other application servers without requiring the client to re-enter the password. To enable this functionality, select SSO Support and specify an SSO Domain value.

Alert Type specifies which login events FortiWeb writes to event log (none, failed only, successful only, or all).

Step 4 - Site publish policy

Use a site publish policy to add site publish rules to a web protection profile. The site publish policy allows you to add multiple site publish rules to a policy.

To create a new policy, go to **Application Delivery > Site Publish > Site Publish Policy**. Create a new entry, enter the policy name, and then click OK. Then, you can add one or more site publish rules to the policy.

Step 5 - X-Forwarded-For rule

Because the operating mode is reverse proxy, the source address of all connections from the FortiWeb to the back-end server is the IP address of one of the FortiWeb interfaces.

To provide the client IP address in the log of the back-end server, you can forward the IP address of the client in the request in a `X-Forwarded-For` header.

New X-Forwarded-For Rule

Name: owa

Add X-Forwarded-For: ☒

Add Source Port: ☐

Enable to add an X-Forwarded-For header with the connection's source IP. If Source port is enabled the source port of the request will be added as well. Requires reverse proxy mode, True Transparent Proxy or WCCP mode.

Add X-Forwarded-Port: ☐

Enable to add an X-Forwarded-Port header with the connection's destination port. Requires reverse proxy mode, True Transparent Proxy or WCCP mode.

Add X-Real-IP: ☐

Enable to add an X-Real-IP header with the connection's source IP. Requires reverse proxy mode, True Transparent Proxy or WCCP mode.

Add X-Forwarded-Proto: ☐

Enable to add an X-Forwarded-Proto header with the connection's originating protocol. Requires reverse proxy mode, True Transparent Proxy or WCCP mode.

Use X-Header to Identify Original Client's IP: ☐

IP Location in X-Header: Left Right

Block Using Original Client's IP: ☐

If you have a front-end load balancer or proxy, enable to use the IP in an X-header, not the connection's source IP, to define the original client for logs and reports and, if enabled, blocking. To prevent forgery, define trusted sources of this header.

OK Cancel

Go to **Server Objects > X-Forwarded-For > X-Forwarded-For** and create a new entry. Enter a name and select **Add X-Forwarded-For**.

(These settings also provide alternative methods to include this information in requests.)

Step 6 - Web protection profile

Go to **Policy > Web Protection Profile > Inline Protection Profile**.

Instead of creating a new profile, you can clone the predefined profile for Exchange 2013, and then configure the cloned profile to suit your environment.

Enter a name, enable **Session Management** and select the **X-Forwarded-For** profile you created earlier.

At the bottom of the profile configuration, under **Application Delivery**, for **Site Publish**, select the site publish policy that you created earlier.

Inline Protection Profile | Offline Protection Profile

New Inline Protection Profile

Name: owa

Standard Protection

Session Management: ☒

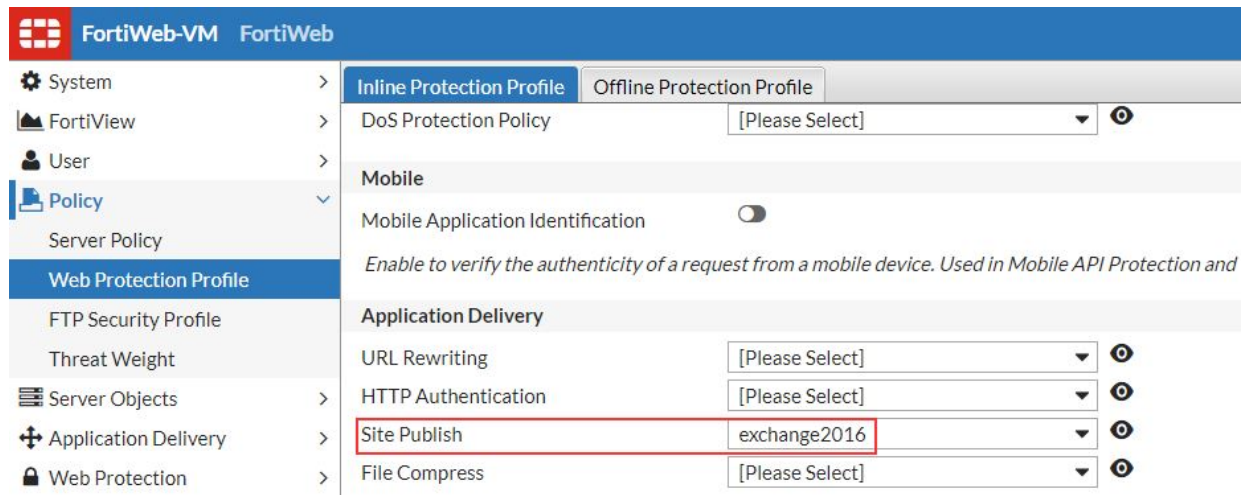
Session Timeout: 1200 Seconds

Signatures: [Please Select]

HTTP Protocol Constraints: [Please Select]

X-Forwarded-For: owa

OK Cancel



Step 7 - Virtual server

Go to **Server Objects > Server > Virtual Server** and create a new entry that specifies the IP address that FortiWeb listens to for connections from the Internet.

Step 8 - Server pool

Go to **Server Objects > Server > Server Pool**. Create a new pool that is a single server pool (the default). Then, add a new pool member by specifying the IP address of the server that runs the published application.

Step 9 - Certificates

To upload certificates or generate certificate signing requests, go to **System > Certificates > Local**.

If you have an official, signed certificate, upload the certificate of the signing authority (CA). Depending on your authority, you also upload the Intermediate CAs.

The FortiWeb Administration Guide includes detailed information about uploading certificates. For example, see “How to offload or inspect HTTPS”.

Step 10 - Server policy

Go to **Policy > Server Policy > Server Policy** and create a new entry.

Select the configuration objects that you created earlier:

- Virtual server
- Server pool
- Certificate
- Web protection profile (inline)

FortiWeb is now listens on the specified IP address and intercepts connections destined for the URL defined in the site publishing rule (in this example, HTTPS://mail.fortiweb.lab/owa). The client must successfully complete authentication before it can send any further requests to the application server.

You can configure additional security features, but these are outside the scope of this guide.

LDAP query best practices and tips

Edit LDAP Server

Name	at-lab-ad
Server IP / Domain	192.168.234.21
Server Port	3268
Common Name Identifier	sAMAccountName
Distinguished Name	OU=CONTAINER,DC=DOMAIN,DC=
Bind Type	Regular ▼
User DN	user@domain.suffix
Password	
Filter	(&(objectCategory=person)(objectClas
Group Authentication	<input checked="" type="checkbox"/>
Secure Connection	<input type="checkbox"/>

Test LDAP
OK
Cancel

In most cases, the AD attribute sAMAccountName is the container used for authentication and the appropriate value for **Common Name Identifier**.

However, in some environments, the userPrincipalName (email address) is the required or preferred container (for example, for networks that use a domain forest).

For **Server Port**:

- To search for AD objects more efficiently, specify 3268 instead of the default LDAP port 389.
- Fortinet recommends that you transmit user credentials securely by specifying 3269 (for more efficient searching) or the LDAP port 636.

Distinguished Name specifies the Base DN from which to start the LDAP query.

Filter allows you to improve the speed and efficiency of the queries. If **Common Name Identifier** is userPrincipalName, use that attribute in the Filter value.

If the query does not work when you specify the LDAP **Distinguished Name** for **User DN**, use the UPN (User Principle Name) instead.

In most cases, the UPN (Email Address) format produces the best results.

Search Filter – (&(objectCategory=person)(objectClass=user)(sAMAccountName=*))

For Windows 2003 SP2 and later, the filter can use the string identifier LDAP_MATCHING_RULE_IN_CHAIN (Matching rule OID 1.2.840.113556.1.4.1941). For example:

```
(memberOf:1.2.840.113556.1.4.1941=(CN=Users*))
```

The following example filter matches multiple groups:

```
(&(objectCategory=group)(|(cn=Test*)(cn=Admin*)))
```

The example filters that follow are based on the following example environment:

Directory: DC=domain,DC=com

+ Test_Users

—internet_group

——Matthew Vassallo (user)

—normal_group

——Kenneth Grech (user)

Query multiple groups (method 1)	(&(memberOf=CN=*,OU=Test_Users,DC=domain,DC=com)(sAMAccountName=*))
Query multiple groups (method 2)	(&((memberOf=CN=normal_group,OU=Test_Users,DC=domain,DC=com)(memberOf=CN=internet_group,OU=Test_Users,DC=domain,DC=com))(sAMAccountName=%s))
Query all users by sAMAccount type	(sAMAccountType=805306368)
Exclude users in a specific group from the query	(!(memberOf=cn=TestGroup,OU=Groups,DC=DOMAIN,DC=com))
Query for non-disabled users in a group	(&(objectCategory=person)(objectclass=user)(memberOf=CN=All Europe,OU=Global,dc=company,dc=com)(!(userAccountControl:1.2.840.113556.1.4.803:=2)))

Outlook Web App configuration

1. Log in to the Exchange Control Panel. The default URL is: `HTTPS://<server_name>.<domain_name>.com/ecp`
2. Go to **servers > virtual directories**.
3. Select the owa entry, and then click the pencil icon (edit).

servers databases database availability groups **virtual directories** certificates

Select server: **All Servers**
 Select type: **All**



NAME	SERVER	TYPE	VERSION	LAST MODIFIED TIME	
Autodiscover (Default Web S...	AT-LAB-EXC...	Autodi...	Version 15.0 (Build 516...	6/10/2014 4:57 PM	Autodiscover (Default Web Site)
ecp (Default Web Site)	AT-LAB-EXC...	ECP	Version 15.0 (Build 516.32)	6/11/2014 5:40 PM	Authentication: Basic, NTLM, Integrated Windows, Windows SharePoint Security, OAuth
EWS (Default Web Site)	AT-LAB-EXC...	EWS	Version 15.0 (Build 516.32)	6/10/2014 4:57 PM	
Microsoft-Server-ActiveSync (...)	AT-LAB-EXC...	EAS	Version 15.0 (Build 516.32)	6/10/2014 4:57 PM	
OAB (Default Web Site)	AT-LAB-EXC...	OAB	Version 15.0 (Build 516.32)	6/10/2014 4:57 PM	
owa (Default Web Site)	AT-LAB-EXC...	OWA	Version 15.0 (Build 516.32)	6/11/2014 5:39 PM	
PowerShell (Default Web Site)	AT-LAB-EXC...	Power...	Version 15.0 (Build 516.32)	6/10/2014 4:58 PM	

4. Select authentication, and then select **Use one or more standard authentication methods and **Basic authentication**.**

- ☒ Use one or more standard authentication methods
- ☐ Integrated Windows authentication
 - ☐ Digest authentication for Windows domain servers
 - ☒ Basic authentication

☐ Use forms-based authentication

Logon format:

- ☒ Domain\user name
- ☐ User principal name (UPN)
- ☐ User name only

Logon Domain

5. Select **Save.**

Outlook Web Access administration prompts to make the same change to the /ecp virtual folder.

Select the ecp entry and make the same setting changes as you did for the owa entry.

Securing ActiveSync with FortiWeb

As part of its core publishing functionality FortiWeb allows publishing ActiveSync as well. This means any access to the application over ActiveSync is proxied through FortiWeb which secures the connection, enforcing multiple security rules including scanning email attachments with Antivirus and FortiSandbox. FortiWeb can also be used for its publishing functionality for SSO and authentication delegation.

This guide configuration discusses two use cases – when the requirement is specifically for ActiveSync antivirus and sandboxing scanning or when SSO and authentication delegation is also required.

Use Case 1: Scanning ActiveSync Email Attachments

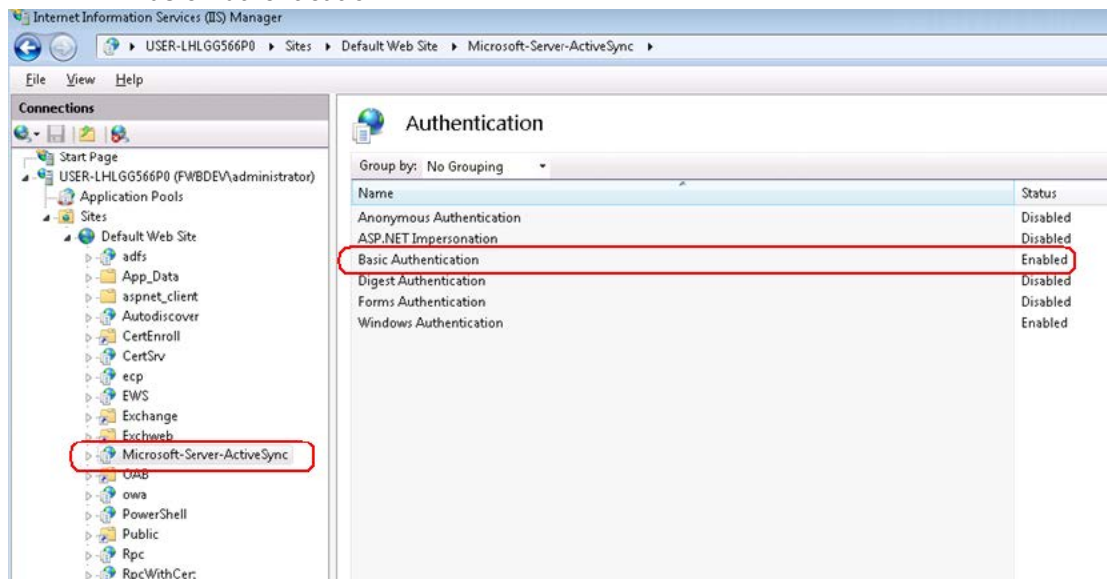
As ActiveSync delivers emails to devices, organizations need to make sure email attachments are scanned to ensure they do not carry any malware.

FortiWeb provides the ability to extract attachments from the mobile to mail server sessions, scan them using its embedded Antivirus engine, and send them to FortiSandbox for additional scanning.

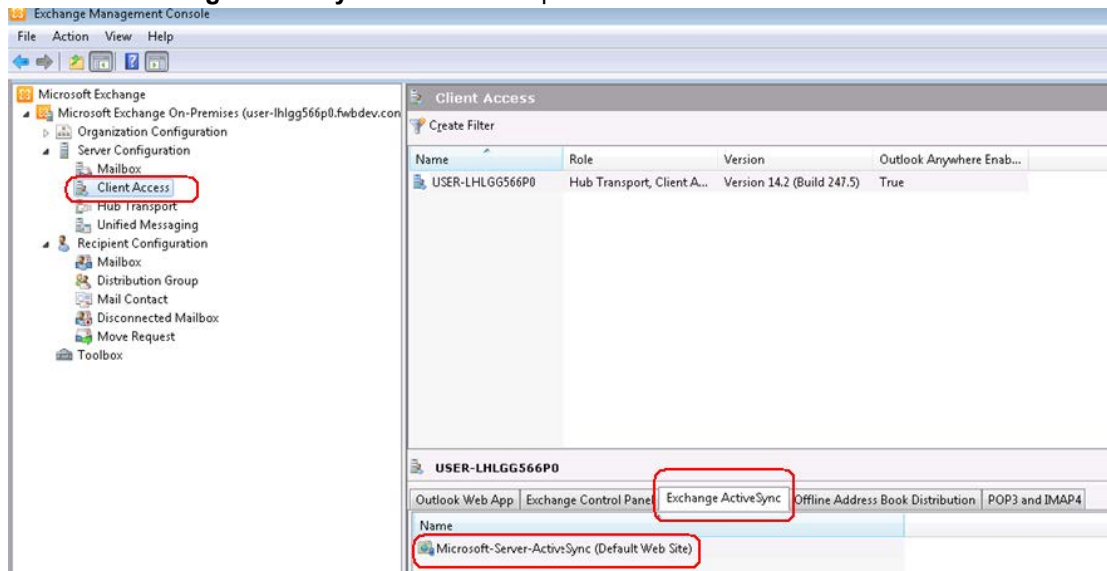
First, make sure your web server supports ActiveSync and configured correctly. Here is an example for Microsoft Exchange:

Exchange 2010

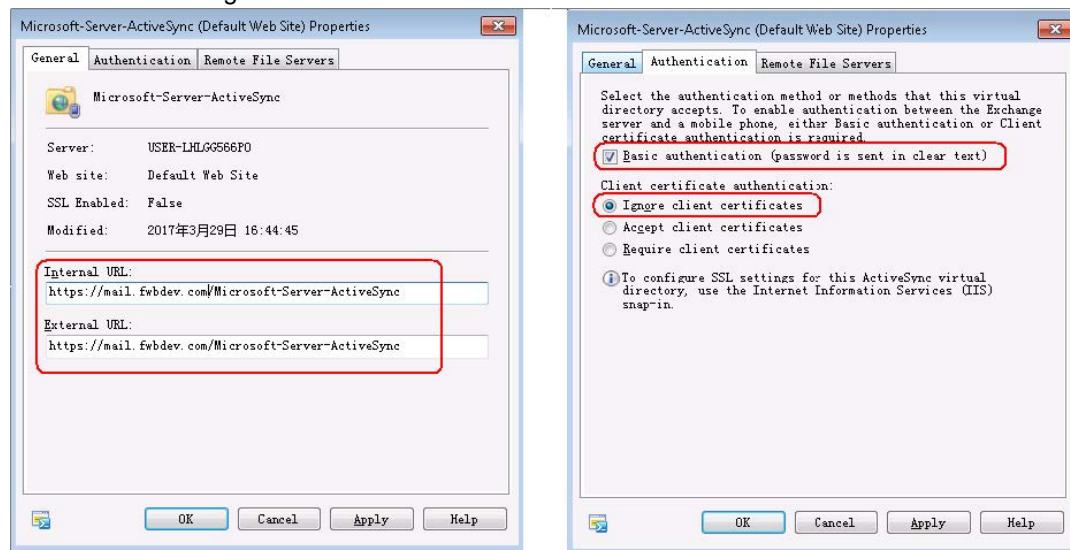
1. Open IIS Manager.
 - a. Go to **Microsoft-Server-ActiveSync**.
 - b. Make sure **Basic Authentication** is enabled.



2. Open Exchange Management Console.
 - a. Go to **Client Access**.
 - b. Switch to **Exchange ActiveSync** on the bottom panel.



- c. Double click **Microsoft-Server-ActiveSync (Default Web Site)**.
- d. Make sure:
 - i. URLs are configured correctly.
 - ii. Basic authentication is enabled.
 - iii. Client certificate is ignored.



Exchange 2013/2016/2019

1. Open your browser, and access Exchange admin center [HTTPS://<exchange.server.com>/ecp](https://<exchange.server.com>/ecp).
2. Log in with administrator credentials.

3. Go to **Microsoft-Server-ActiveSync (Default Web Site)**.

Exchange admin center

recipients permissions compliance management organization protection mail flow mobile public folders unified messaging **servers** hybrid tools

servers databases database availability groups **virtual directories** certificates

Select server: All servers
Select type: All

NAME	SERVER	TYPE	VERSION	LAST MODIFIED TIME
PowerShell (Default Web Site)	OWA2016	Powe...	Version 15.1 (Build 225.42)	8/1/2017 12:28 PM
owa (Default Web Site)	OWA2016	OWA	Version 15.1 (Build 225.42)	8/1/2017 12:27 PM
OAB (Default Web Site)	OWA2016	OAB	Version 15.1 (Build 225.42)	8/1/2017 12:28 PM
Microsoft-Server-ActiveSync (Default Web Site)	OWA2016	EAS	Version 15.1 (Build 225.42)	8/1/2017 12:28 PM
EWS (Default Web Site)	OWA2016	EWS	Version 15.1 (Build 225.42)	8/1/2017 12:27 PM
ecp (Default Web Site)	OWA2016	ECP	Version 15.1 (Build 225.42)	8/1/2017 12:27 PM
Autodiscover (Default Web Site)	OWA2016	Auto...	Version 15.1 (Build 225.42)	8/1/2017 12:27 PM

4. Make sure the configurations are the similar to those of Exchange 2010 above.

Virtual Directory - Mozilla Firefox

https://10.0.1.107/ecp/VD/Mgmt/EditEASVDir.aspx?pwdid=9&ReturnObjectType=1&id=4c5

Microsoft-Server-ActiveSync (Default Web Site)

general authentication

Server: OWA2016
Last modified time: 8/1/2017 12:28 PM
Internal URL: https://2016.fwbqa.com/Microsoft-Ser
External URL:

Save Cancel

Virtual Directory - Mozilla Firefox

https://10.0.1.107/ecp/VD/Mgmt/EditEASVDir.aspx?pwdid=9&ReturnObjectType=1&id=4c5

Microsoft-Server-ActiveSync (Default Web Site)

general authentication

SSL enabled: True

Select the authentication method or methods that this virtual directory accepts. To enable authentication between the Exchange server and a mobile device, either Basic authentication or Client Certificate authentication is required.

☒ Basic authentication
(Requires the use of SSL certificates to encrypt the passwords that are normally sent in clear text)

Client certificate authentication:
☒ Ignore client certificates
☐ Accept client certificates
☐ Require client certificates

Save Cancel

FortiWeb Configuration

First, configure the File Security policy.

1. Enable **Trojan Detection** for additional security. Make sure you enable Antivirus Scan and FortiSandbox.
2. Enable **Scan attachments in Email** and choose **ActiveSync** in Protocol (possibly OWA too if you're using FortiWeb to publish Exchange OWA as well).

File Security Policy		File Security Rule
Edit File Security Policy		
Name	xxfile	
Action	Alert & Deny	
Block Period	60	(1~3600)(Seconds)
Severity	Low	
Trigger Action	Please Select	
Trojan Detection	<input checked="" type="checkbox"/>	
Antivirus Scan	<input checked="" type="checkbox"/>	
Send Files to FortiSandbox	<input checked="" type="checkbox"/>	
Send Files to ICAP Server	<input type="checkbox"/>	
Hold Session While Scanning File	<input type="checkbox"/>	
Scan Attachments in Email	<input checked="" type="checkbox"/>	
Protocol	OWA <input type="checkbox"/> ActiveSync <input checked="" type="checkbox"/> MAPI <input type="checkbox"/>	

Now, attach the File Security policy to the Web Protection Profile. For more information on File Security, see **Limiting file uploads** in [FortiWeb Administration Guide](#).

Next, create a new server policy. ActiveSync is usually used with SSL. So the front end and backend should be configured with HTTPS.

1. Configure the front end (towards the client) options.

System	>	System
FortiView	>	FortiView
User	>	User
Policy	>	Policy
Server Policy	>	Server Policy
Web Protection Profile	>	Web Protection Profile
FTP Security Profile	>	FTP Security Profile
Threat Weight	>	Threat Weight
Server Objects	>	Server Objects
Application Delivery	>	Application Delivery
Web Protection	>	Web Protection
FTP Security	>	FTP Security
Bot Mitigation	>	Bot Mitigation
API Protection	>	API Protection
DoS Protection	>	DoS Protection
IP Protection	>	IP Protection
Tracking	>	Tracking
Machine Learning	>	Machine Learning
Web Vulnerability Scan	>	Web Vulnerability Scan
Log&Report	>	Log&Report
Monitor	>	Monitor

Edit Policy	
Network Configuration	
Policy Name	dwg_policy
Deployment Mode	Single Server/Server Pool
Virtual Server	vserver
Server Pool	Win2008_30.13
Protected Hostnames	[Please Select...]
Client Real IP	<input type="checkbox"/> Enable to use the client source IP and port when Configure FortiWeb as the default gateway on t
Syn Cookie	<input checked="" type="checkbox"/>
Half Open Threshold	200
HTTP Service	HTTP
HTTPS Service	HTTPS
HTTP/2	<input type="checkbox"/>
Enable Multi-certificate	<input type="checkbox"/>
Certificate	Fortinet_Factory
Certificate Intermediate Group	[Please Select...]

2. Configure the backend (towards the server pool) options.

Edit Server Pool Rule

ID	1		
Status	<input checked="" type="button" value="Enable"/> <input type="button" value="Disable"/> <input type="button" value="Maintenance"/>		
Server Type	<input checked="" type="button" value="IP"/> <input type="button" value="Domain"/>		
IP	<input type="text" value="10.101.30.13"/>		
Port	<input type="text" value="443"/>		
Connection Limit	<input type="text" value="0"/>	(Concurrent Connections)(0 - 1048576)	
<i>Maximum number of concurrent connections to the backend server. Input 0 for no con</i>			
Weight	<input type="text" value="1"/>	(1~9999)	
<i>Assigns relative preference among members—higher values are more preferred and ar</i>			
Inherit Health Check	<input checked="" type="checkbox"/>		
Health Check Domain Name	<input type="text"/>		
Backup Server	<input type="checkbox"/>		
<i>Set to Enable to designate this server as a last server to be used when all other servers</i>			
Proxy Protocol	<input type="checkbox"/>		
HTTP/2	<input type="checkbox"/>		
SSL	<input checked="" type="checkbox"/>		
<i>Enable to use SSL/TLS for connections between FortiWeb and the pool member</i>			
Client Certificate	<input type="text" value="[Please Select]"/>		
<i>Required only if a valid client certificate is required to connect to this pool member.</i>			
Advanced SSL settings			
Show advanced settings			

Now, open the mail application on your phone and test.

Use Case 2: Managing Authentication and SSO to ActiveSync

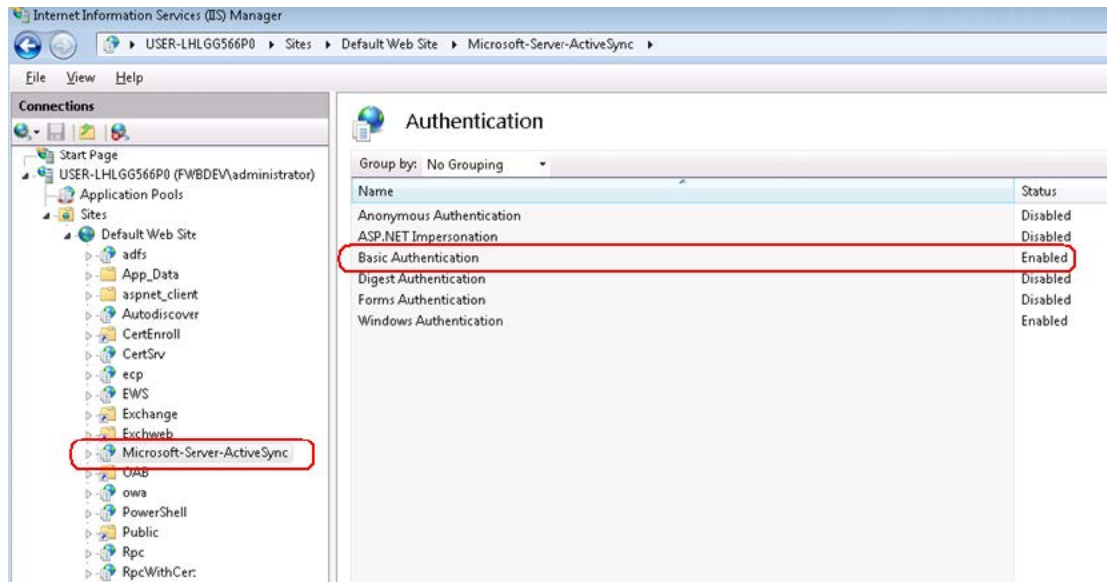
Many organizations tightly control how Microsoft applications are used by publishing the application through TMG, Microsoft's Threat Management Gateway that allows secure access to these applications. With TMG EOL'd and sunsetting customers can use FortiWeb as a replacement.

Customers that want to control the authentication and SSO for ActiveSync, usually as part of publishing other components of the Exchange server should use FortiWeb's Site Publish feature.

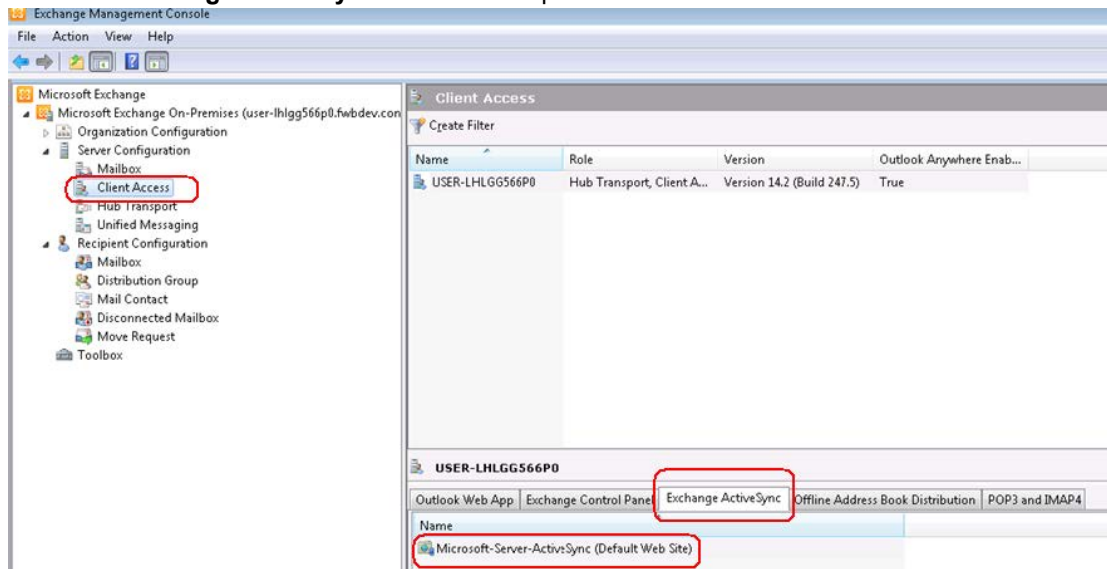
First, make sure your Microsoft Exchange is configured correctly:

Exchange 2010

1. Open IIS Manager.
 - a. Go to **Microsoft-Server-ActiveSync**.
 - b. Make sure **Basic Authentication** is enabled.

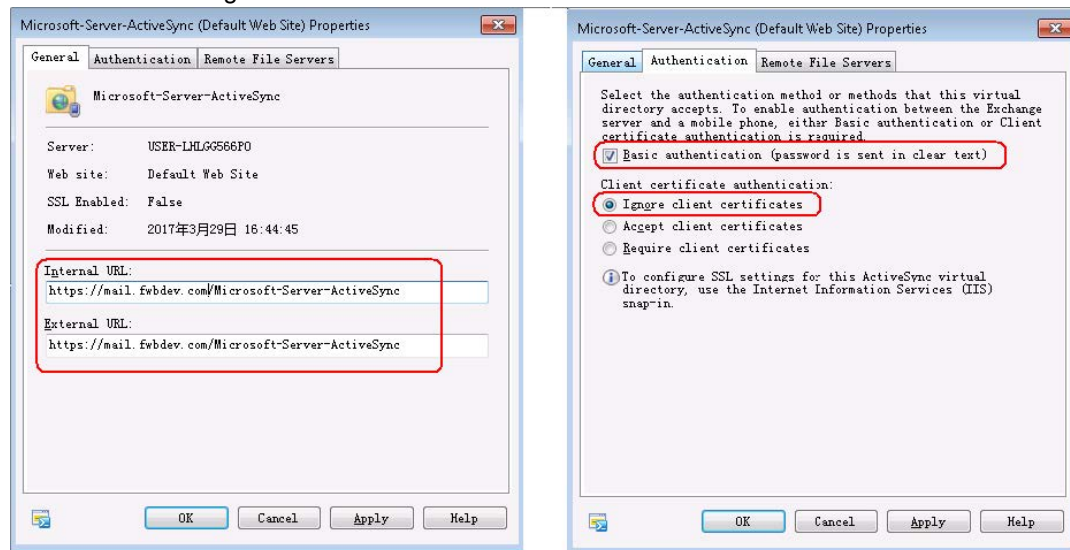


2. Open Exchange Management Console.
 - a. Go to **Client Access**.
 - b. Switch to **Exchange ActiveSync** on the bottom panel.



- c. Double click **Microsoft-Server-ActiveSync (Default Web Site)**.
- d. Make sure:
 - i. URLs are configured correctly.
 - ii. Basic authentication is enabled.

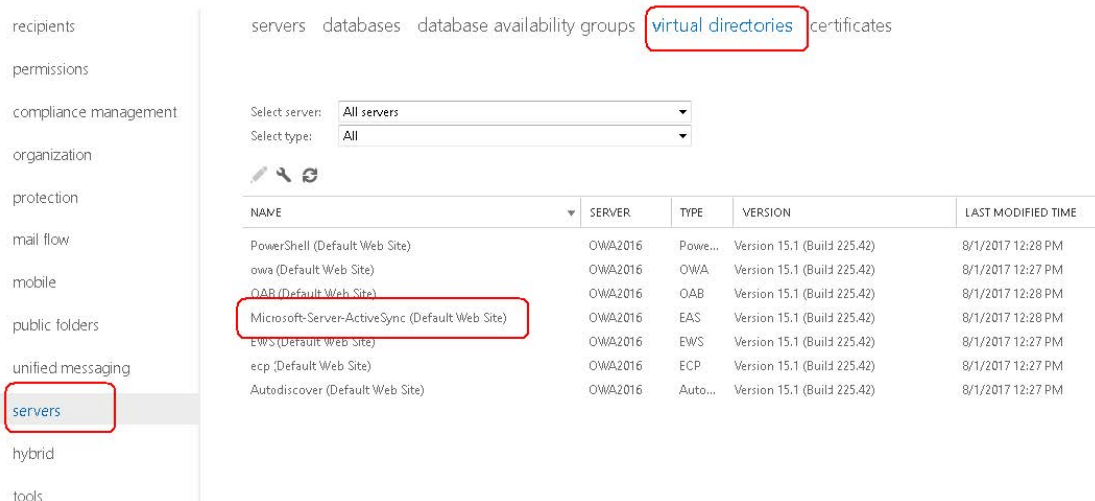
iii. Client certificate is ignored.



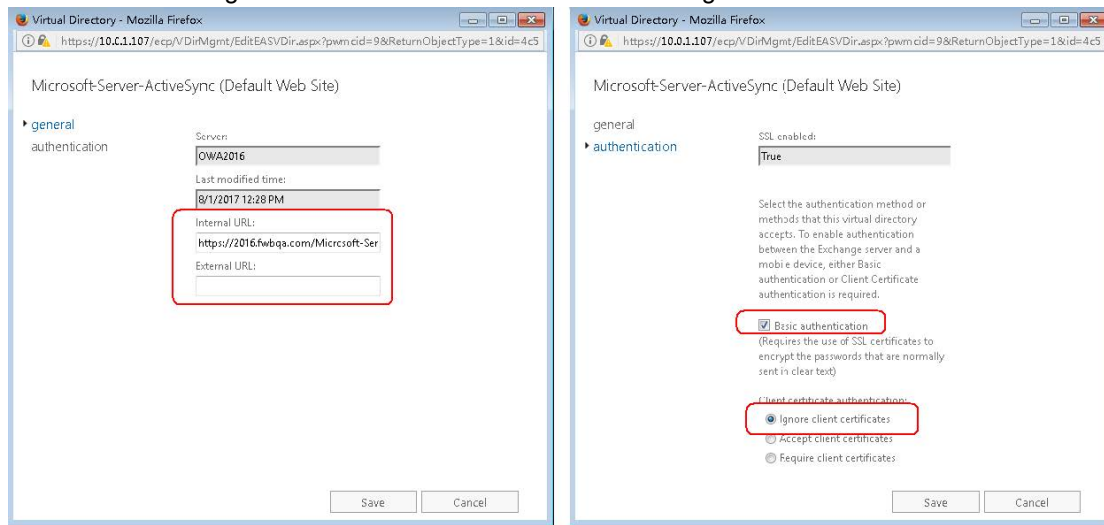
Exchange 2013/2016/2019

1. Open your browser, and access Exchange admin center [HTTPS://<exchange.server.com>/ecp](https://<exchange.server.com>/ecp).
2. Log in with administrator credentials.
3. Go to **Microsoft-Server-ActiveSync (Default Web Site)**.

Exchange admin center



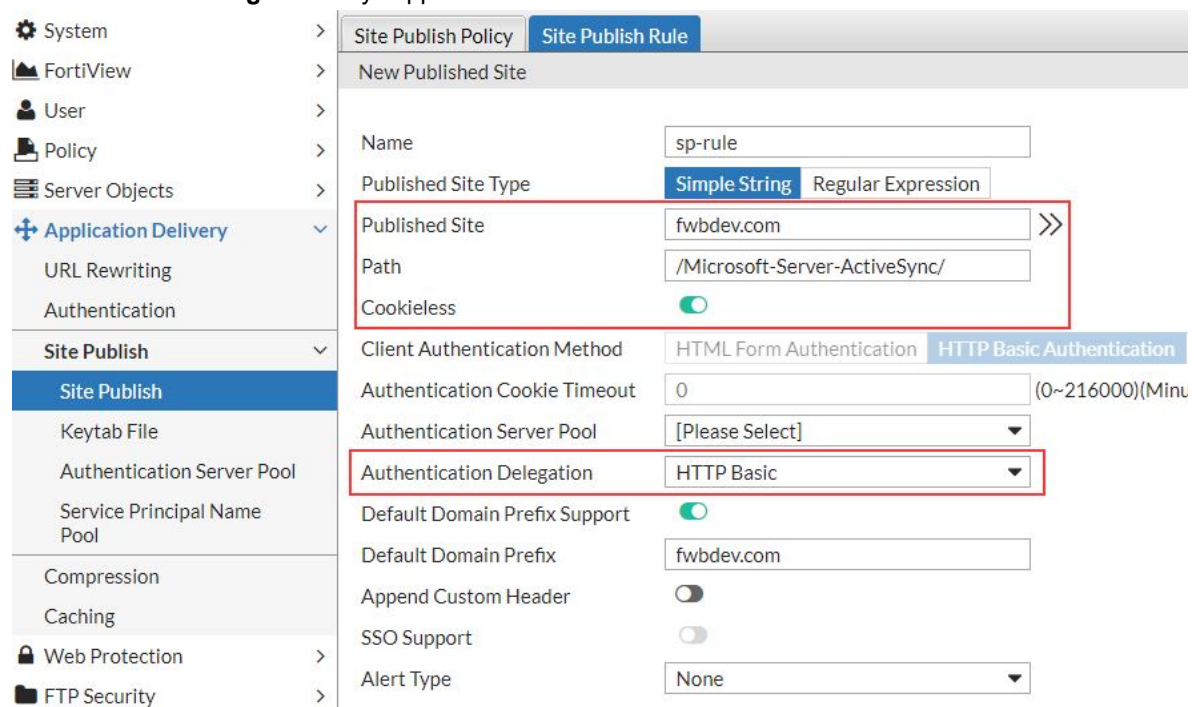
4. Make sure the configurations are the similar to those of Exchange 2010 above.



FortiWeb Configuration

First, configure a Site Publish policy:

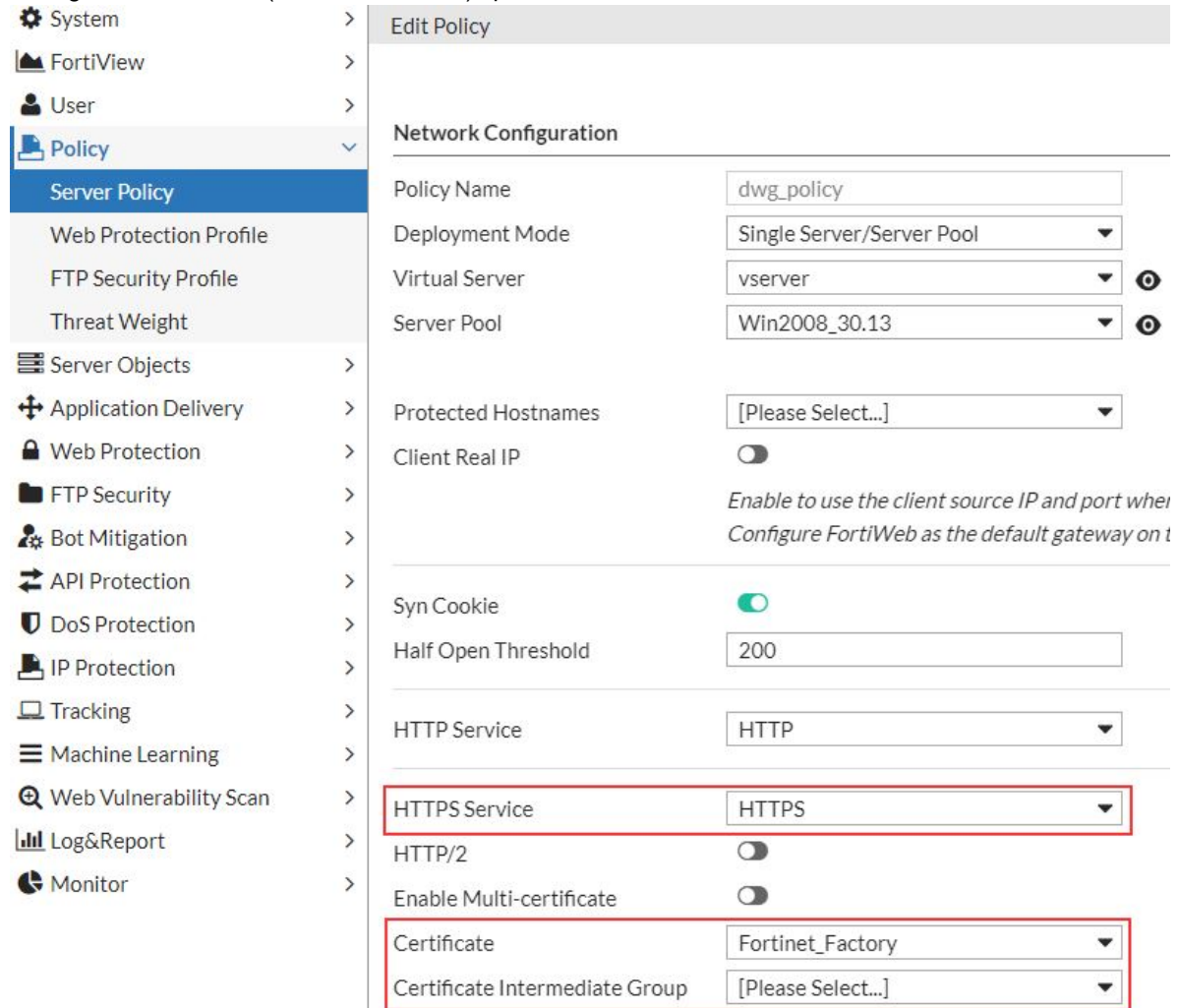
- **Published Site** should be the domain name of the URL above.
- **Path** should be consistent with the URL above.
- **Cookieless** should be enabled so that clients can access to Microsoft Exchange servers through Exchange ActiveSync.
- **Authentication Delegation** only supports HTTP Basic.



Now, attach the Site Publish policy to the Web Protection Profile.

Next, create a new server policy. ActiveSync is usually used with SSL, so the front end and backend should be configured with HTTPS.

1. Configure the front end (towards the client) options.



Network Configuration	
Policy Name	dwg_policy
Deployment Mode	Single Server/Server Pool
Virtual Server	vserver
Server Pool	Win2008_30.13
Protected Hostnames	[Please Select...]
Client Real IP	<input type="checkbox"/> Enable to use the client source IP and port when Configure FortiWeb as the default gateway on the
Syn Cookie	<input checked="" type="checkbox"/>
Half Open Threshold	200
HTTP Service	HTTP
HTTPS Service	HTTPS
HTTP/2	<input type="checkbox"/>
Enable Multi-certificate	<input type="checkbox"/>
Certificate	Fortinet_Factory
Certificate Intermediate Group	[Please Select...]

2. Configure the backend (towards the server pool) options.

Edit Server Pool Rule

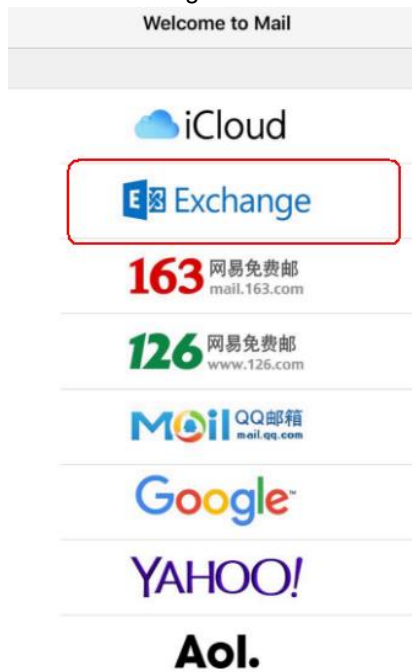
ID	1
Status	<input checked="" type="button" value="Enable"/> <input type="button" value="Disable"/> <input type="button" value="Maintenance"/>
Server Type	<input checked="" type="button" value="IP"/> <input type="button" value="Domain"/>
IP	<input type="text" value="10.101.30.13"/>
Port	<input type="text" value="443"/>
Connection Limit	<input type="text" value="0"/> (Concurrent Connections)(0 - 1048576) <i>Maximum number of concurrent connections to the backend server. Input 0 for no con</i>
Weight	<input type="text" value="1"/> (1~9999) <i>Assigns relative preference among members—higher values are more preferred and ar</i>
Inherit Health Check	<input checked="" type="checkbox"/>
Health Check Domain Name	<input type="text"/>
Backup Server	<input type="checkbox"/> <i>Set to Enable to designate this server as a last server to be used when all other servers</i>
Proxy Protocol	<input type="checkbox"/>
HTTP/2	<input type="checkbox"/>
SSL	<input checked="" type="checkbox"/> <i>Enable to use SSL/TLS for connections between FortiWeb and the pool member</i>
Client Certificate	<input type="text" value="[Please Select]"/> <i>Required only if a valid client certificate is required to connect to this pool member.</i>

[Advanced SSL settings](#)

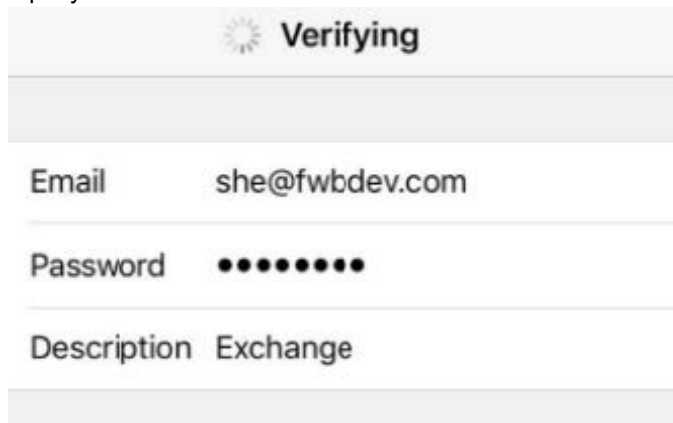
[Show advanced settings](#)

Now, open the mail application on your phone and test. The following uses iPhone as an example

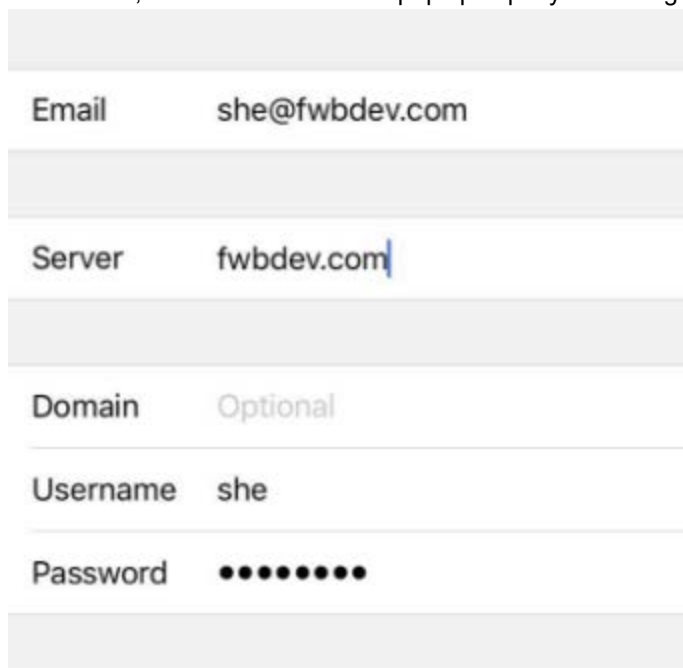
1. Open the Mail app.
2. Choose Exchange.



3. Input your credentials.

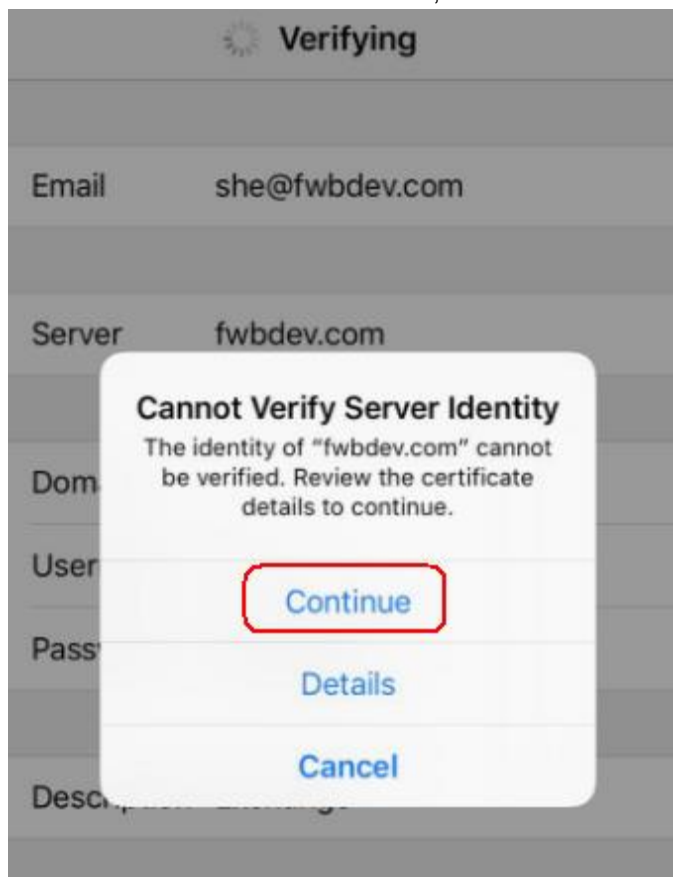


4. Sometimes, a re-check form would pop up. Input your info again.



A screenshot of a login form. The fields are: Email (she@fwbdev.com), Server (fwbdev.com), Domain (Optional), Username (she), and Password (represented by dots). The form is displayed on a light gray background.

5. If the FortiWeb certificate is not trusted, there will be a warning page. Press **Continue**.



6. Access now is secured by FortiWeb.



Copyright© 2023 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.