

ZENworks Mobile Workspace

Installation Guide - Console

September 2017

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1 OVERVIEW

This user guide provides instructions on the installation of ZENworks Mobile Workspace without graphical user interface. To facilitate a smooth installation, it is recommended that you first test to ensure that your VM and infrastructure are ready. To ensure you are ready, please follow the check lists of the integration document.

2 INSTALLATION

To start the setup, browse to the location of the installation archive on your computer. Extract its content to a new folder.

```
mkdir -p 3.14; cd 3.14; tar xf ../ zmw_314_linux.tar.gz
```

Figure 1: Extract installation files

To run properly, installation script must be started in privileged mode (as root).

```
sudo ./install.sh
```

Figure 2: Run as root

2.1 Language selection

Start by selecting your language and click **OK**.

```
Please select your language below, type:  
  0 for eng  
  1 for fra  
language [0]:
```

Figure 3: Language selection

2.2 Welcome

A welcome screen will be displayed

```
Welcome to the installation of ZENworks Mobile Workspace 3.14.0!  
- Micro Focus <support@microfocus.com>  
The homepage is at: http://www.microfocus.com/  
press 1 to continue, 2 to quit, 3 to redisplay  
1
```

Figure 4: Welcome screen

After each screen, type '1' and press 'Enter' to go to the next screen.

2.3 Set installation path

Here you select where you want to install the ZENworks Mobile Workspace server. By default, the setup program suggests `/opt/zmw` as the target path. You can accept it by pressing 'Enter' or type the path of your choice and press 'Enter' to validate.

```
Select ZENworks Mobile Workspace installation path [/opt/zenworks-  
mobileworkspace]  
press 1 to continue, 2 to quit, 3 to redisplay
```

Figure 5: Installation path selection

After selecting the installation path, some required data will be generated.

```
Shared key generated  
Database password generated
```

Figure 6: keys generation

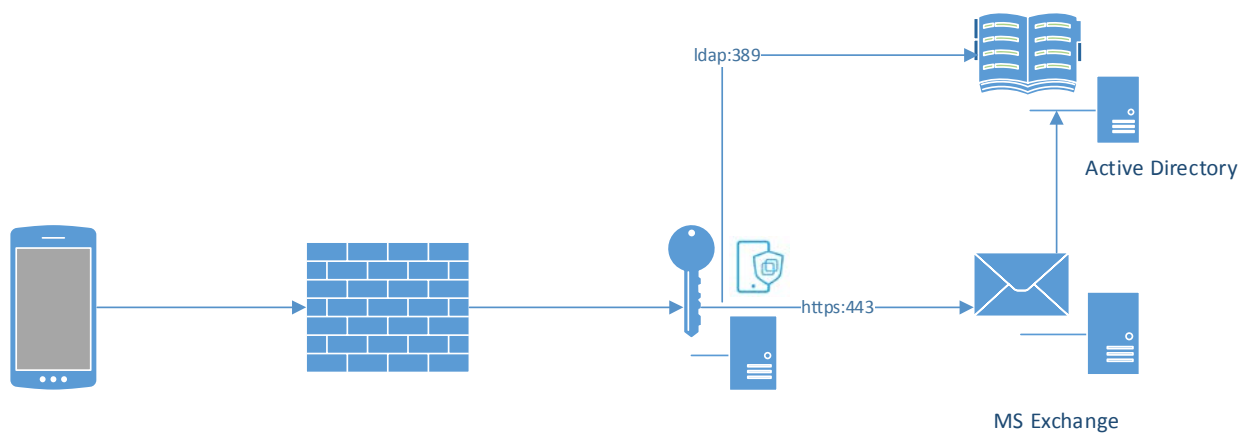
2.4 Synchronization settings

Enter the settings for one of the following infrastructure configurations:

- ZENworks Mobile Workspace with a Microsoft Exchange Server
- ZENworks Mobile Workspace with an IBM Lotus Domino Server
- ZENworks Mobile Workspace with a Novell GroupWise server

```
--- ZMW SYNC settings ---  
LDAP URL []: ldap://ad.exemple.com  
LDAP base []: dc=exemple,dc=com  
Domain name alias [] *: exemple.com  
Username for LDAP queries:  
Password for LDAP queries:  
Connection succeed: 67 groups found !  
press 1 to continue, 2 to quit, 3 to redisplay  
1
```

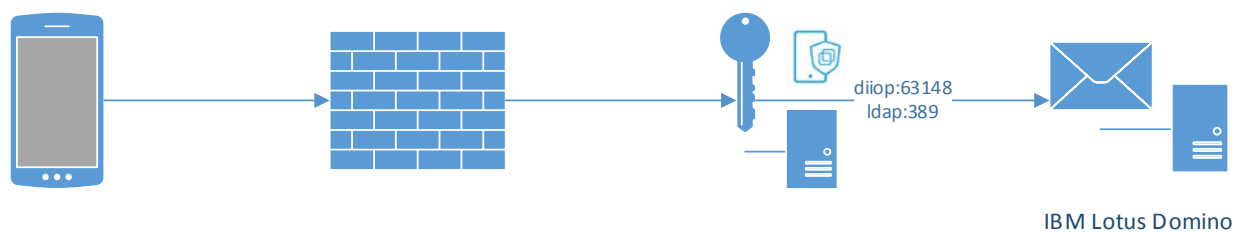
Figure 7: Sync server configuration for Exchange

ZENworks Mobile Workspace with a Microsoft Exchange Server

ZENworks Mobile Workspace, **when used with your own Exchange server**, will synchronize groups and users from your Active Directory. You will need to enter the following information to accommodate that:

- **LDAP hostname (e.g. *ldap://ldap.company.local*):** The internal URL of your Active Directory.
- **LDAP base (e.g. *dc=company,dc=local*):** The base of your Active Directory.
- **Domain name alias (e.g. *microfocus*):** The SENSE domain that end users may use to login into the workspace. With the domain “microfocus,” end users will be allowed to login with *username* or *username@microfocus*.
- **LDAP Query User:** A query user with read rights (Any LDAP account can work as Query user).
- **LDAP Query Password:** The password of the above query user.

ZENworks Mobile Workspace with an IBM Lotus Domino Server



ZENworks Mobile Workspace, **when used with your own Lotus Domino server**, will synchronize groups and users from the LDAP server within your Domino environment. You will need to enter the following information to accommodate that:

- **LDAP hostname (e.g. *ldap://ldap.company.local*):** The internal URL of your Lotus Domino server
- **LDAP base:** Leave blank.
- **Domain name alias (e.g. *company*):** The ZENworks Mobile Workspace domain that end users may use to login into the workspace. With the domain “domino” end users will be allowed to login with *username* or *username@domino*.
- **LDAP Query User:** A query user with read rights (any mail account can work as Query user).
- **LDAP Query Password:** The password of the above query user.

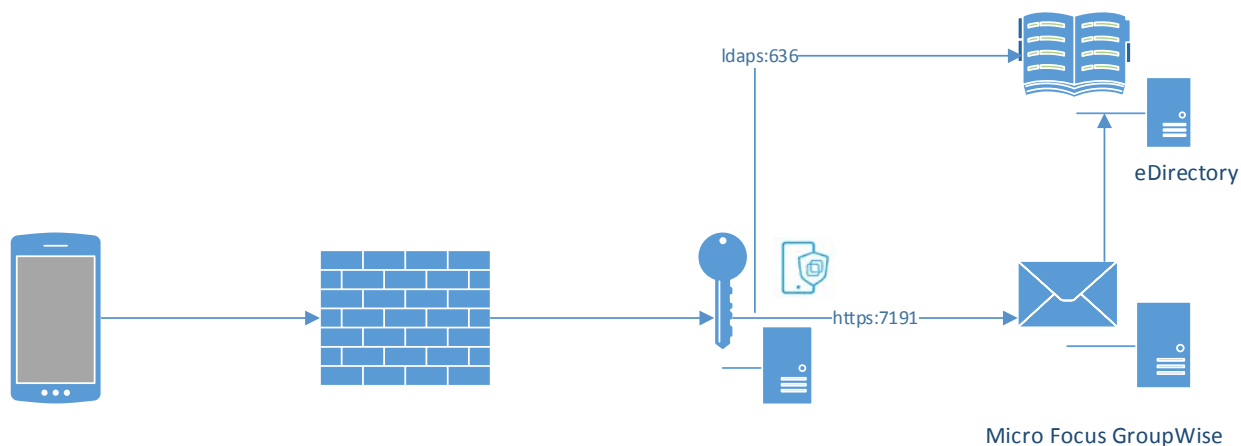
ZENworks Mobile Workspace with a Micro Focus GroupWise

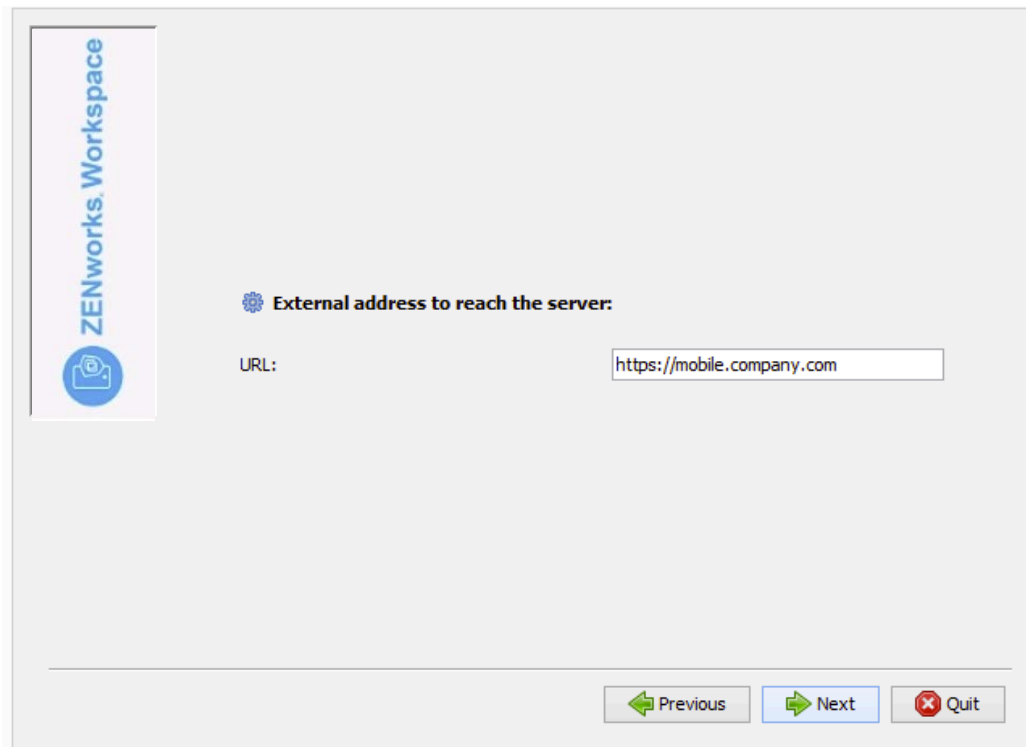
Figure 2-8: ZENworks MW with Micro Focus GroupWise

ZENworks Mobile Workspace, **when used with your own Novell GroupWise**, will synchronize groups and users from your eDirectory LDAP server. You will need to enter the following information to accommodate that:

- **LDAP hostname (e.g. *ldap://edirectroy.company.local*):** The internal URL of eDirectory server
- **LDAP base (e.g. *O=microfocus*):** The base of your eDirectory.
- **Domain name alias (e.g. *microfocus*):** The ZENworks Mobile Workspace domain that end users may use to login into the workspace. With the domain “groupwise” end users will be allowed to login with *username* or *username@groupwise*.
- **LDAP Query User:** A query user with read rights (Any eDirectory account can work as Query user).
- **LDAP Query Password:** The password of the above query user.

2.5 ZENworks Mobile Workspace URL

This URL allows you to select the external address (or IP) that will be used by ZENworks Mobile Workspace client to connect to the server. The address must be entered as it will be seen from the internet. Please see the next page to set the URL according to your network configuration.



The screenshot shows a configuration window for ZENworks Mobile Workspace. On the left is a vertical sidebar with the ZENworks logo and the text 'ZENworks Workspace'. The main area is titled 'External address to reach the server:' with a gear icon. Below this, there is a label 'URL:' followed by a text input field containing 'https://mobile.company.com'. At the bottom right, there are three buttons: 'Previous' (with a left arrow), 'Next' (with a right arrow), and 'Quit' (with a red X icon).

```
ZENworks Mobile Workspace URL
URL: [https://host:port]
https://zmw.example.com
press 1 to continue, 2 to quit, 3 to redisplay
1
```

Figure 9: ZENworks Mobile Workspace Download URL

2.5.1 Trusted SSL certificate

To follow best practices, MicroFocus strongly recommend to purchase a SSL certificate from a well-known certificate authority. This is mandatory to ensure best in class security and user friendliness.

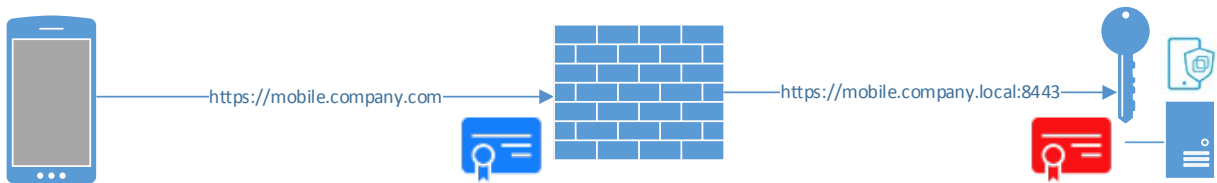
ZENworks Mobile Workspace in front

The presented certificate will be directly installed on ZENworks Mobile Workspace server. You will be able to provide the certificate in the next panel.



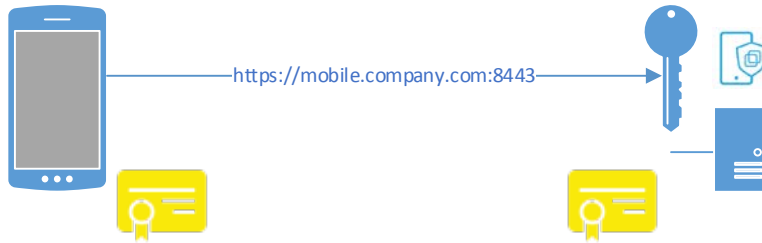
ZENworks Mobile Workspace behind a proxy/FW

The presented certificate is installed on a reverse proxy/FW. You will be requested to install a self-signed certificate in the next panel.



2.5.2 Internally signed SSL certificate

If you have an internal PKI, you could use your certificate signed by your CA but the CA must be installed on the device as well. You will be able to provide the certificate in the next panel.



2.5.3 Self-Signed SSL certificate

Self-signed certificates are not accepted by mobile constructor. Therefore, no SSL connection can be established using this method. Use HTTP connection instead.



2.5.4 ZENworks Mobile Workspace Encryption only

For testing or demonstration purposes, it is possible to use ZENworks Mobile Workspace without SSL connection. Then, only the ZENworks Mobile Workspace encryption will keep your data safe.



2.6 SSL certificate import

Here you must enter the location and password of your server certificate key pairs (PKCS12 format).

```
--- ZENworks Mobile Workspace TLS settings ---  
Select the certificate to import [/path/to/certificate.p12]:  
/root/downloads/exemple.p12  
Private key's password: exemple  
Import successful!  
press 1 to continue, 2 to quit, 3 to redisplay  
1
```

Figure 10: Certificate key pair import

2.7 Mail server settings

Enter the settings that match your mail server:

- **Server type (e.g. Exchange, Office365, Domino or GroupWise):** Select the type of the mail server you have according to the synchronization parameter you used at step 4.6. If you select office365 use SSL, bypass SSL, and hostname options will be automatically filled in.
- **Hostname (e.g. exchange.company.com):** The hostname or ip address of your mail server.
- **Use SSL:** Select it if your Exchange server needs to be connected with a SSL connection. For Domino, please follow instruction here: <https://microfocus.zendesk.com/hc/en-us/articles/200702452-Enable-SSL-connection-between-ZENworks-Mobile-Workspace-and-IBM-Domino>.
- **Bypass SSL:** Bypass SSL must use in case of your mail server do not use a SSL certificate signed by a trusted CA or use self-signed certificate.
- **Username and password for test:** You are not required to enter username or password, as they are here to be used for your convenience to test entered information.

```
--- ZENworks Mobile Workspace Mail settings ---
Options are:
- type 1 for Microsoft Exchange
- type 2 for Lotus Domino
- type 3 for Microsoft Office 365
- type 4 for Micro Focus GroupWise
Select mail server type [1]:
Please enter hostname: exchange.example.com
Connect using TLS ? [1]:
Always trust TLS connection [0]:
Do you want to test this settings? [0]: 1
Enter test username:
Enter test password:
Connection succeed! 197 folders has been found.
press 1 to continue, 2 to quit, 3 to redisplay
1
```

2.8 Document server settings

This screen allows setting of the CMIS connector details:

- Full URL is location of the CMIS connector information

- Bypass SSL is used when connector requires SSL connection, but there are some issues with certificates.
- Optionally, you can test your connection settings.

```
--- ZENworks Mobile Workspace Document Server settings ---  
Document Server type [CMIS]:  
Full URL: http://localhost:8081/fileshare/atom  
Always trust TLS connection [0]:  
Do you want to test connection? [0]:  
press 1 to continue, 2 to quit, 3 to redisplay  
1
```

2.9 Installer processes

Wait through the Pack installation progress

```
[ Starting to unpack ]  
[ Processing package: resources (1/2) ]  
[ Processing package: install (2/2) ]  
[ Unpacking finished ]
```

Figure 12: Unpacking

Wait through installer jobs processing

```
[ Starting processing ]
Starting process Install Java Runtime Environment (1/11)
Preparing the Java Runtime Environment...
Starting process Create derby unix service (2/11)
Created symlink from /etc/systemd/system/multi-user.target.wants/derby.service to /usr/lib/systemd/system/derby.service.
Starting process Create tomcat unix service (3/11)
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /usr/lib/systemd/system/tomcat.service.
Starting process Install server apps (4/11)
Cleaning deployment folder and Installing server apps

. . .

Starting process Install DESK server apps (5/11)

. . .

Starting process Move common libraries (6/11)
Moving SDK and logging libraries
-- Moving /opt/zenworksmobileworkspace/apps-deploy/zenworksmobileworkspace-analytics-server-web-war/WEB-INF/lib/jcl-over-slf4j-1.7.21.jar
to /opt/zenworksmobileworkspace/lib/...

. . .

Starting process Start derby unix service (7/11)
Starting SENSE-DB
Waiting 10 seconds for Derby to start...

. . .

Starting process Create databases (8/11)
ij version 10.11

. . .

Starting process Create Workspace console database (9/11)
ij version 10.11

. . .

Starting process Start server (10/11)
Starting ZENworks Mobile Workspace-SERVER
Waiting 60 seconds for Tomcat to start...

. . .

Starting process Move the version file (11/11)
```

Figure 13: Installer jobs processing

2.10 Installation completed

The setup has been completed.

```
[ Console installation done ]
Be sure to properly configure your firewall in order to allow inbound
connections to your server.
Security Server Administration Console is available at http://lo-
calhost:8080/zenworksmobileworkspace/secserver/
```

Figure 14: End of installation

3 STARTING THE SERVER

Once the installation completes, the ZENworks Mobile Workspace server services (*derby* and *tomcat*) are automatically started and are configured to start at boot time. Then check if your server is correctly running by using the following command: `curl http://localhost:8080/sense/secserver/login.html`

The result should look like this.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html lang="en_US" xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title>ZENworks Mobile Workspace Security Server</title>
  <link class="component" href="/sense/secserver/a4j/s/3_3_1.GAorg/richfaces/render-
kit/html/css/basic_classes.xcss/DATB/eAELXT5D0hSIAQ!sA18_.html" rel="stylesheet"
type="text/css" />
  <link class="component" href="/sense/secserver/a4j/s/3_3_1.GAorg/richfaces/render-
kit/html/css/extended_classes.xcss/DATB/eAELXT5D0hSIAQ!sA18_.html" media="rich-ex-
tended-skinning" rel="stylesheet" type="text/css" />
  <link class="component"
href="/sense/secserver/a4j/s/3_3_1.GAcss/page.xcss/DATB/eAELXT5D0hSIAQ!sA18_.html"
rel="stylesheet" type="text/css" />
  <script type="text/javascript">window.RICH_FACES_EXTENDED_SKIN-
NING_ON=true;</script><script src="/sense/secserver/a4j/g/3_3_1.GAorg/richfaces/render-
kit/html/scripts/skinning.js.html" type="text/javascript"></script>
  <style type="text/css">.rich-page{margin:auto 10px;width:auto;}
  .rich-page-body{float:none;width:auto;}
</style>
  <meta http-equiv="content-type" content="text/html; charset=utf-8" />
  <link rel="stylesheet" type="text/css" href="/sense/secserver/css/sense-web.css" />
</head>
<body>
  <div class="rich-page" id="j_id0">
    <div class="rich-page-header logo" id="j_id0:hd"><div class="rich-page-header-
content" id="j_id0:hdc"><!-- Git commit 927d61574c7b2f82828a881d1a903065177933c, built
on '2017-03-17 10:46:06' -->
      <h1></h1>
    </div></div>
    <div class="rich-page-content" id="j_id0:cnt"><div class="rich-page-main"><div
class="rich-page-body"><div id="loginpage"><div style=""><div
style="float:left;width:97.02%;*width:92.17%;"><div class="loginform">
      <form id="loginForm" action="/sense/secserver/j_spring_security_check"
method="post" onkeypress="if (event.keyCode == 13) {this.submit(); return false;}; re-
turn true;"><fieldset>
        <p>
          <label class="credentials">Please, enter your credentials:</label>
        </p><br /><br /><br /><br />
      </div>
    </div>
  </div>
</body>
```



```

    <p>
      <label class="left">User name</label>
      <input class="field" type="text" name="j_username" />
    </p>
    <p>
      <label class="left">Password</label>
      <input class="field" type="password" name="j_password" />
    </p>
    <input class="button" type="submit" value="Login" />
  </fieldset></form>
</div></div><div style="display: block; height: 0; clear: both; visibility:
hidden;">.</div></div></div></div></div>
<div class="rich-page-footer footer" id="j_id0:ft"><div class="rich-page-
footer-content" id="j_id0:ftc">
  <table>
    <tr>
      <td><p>Copyright &copy; 2017 Micro Focus. All Rights Re-
served.</p></td>
      <td style="width: 100%;"></td>
      <td><p>ZENworks Mobile Workspace Security Server 3.14.0</p></td>
    </tr>
  </table>
</div></div>
</div><!-- MYFACES JAVASCRIPT -->
</body>
</html>

```

Figure 15: URL result

If your server is reachable from another computer using a Web browser, the Security Server Administration Console should appear like on the picture above.

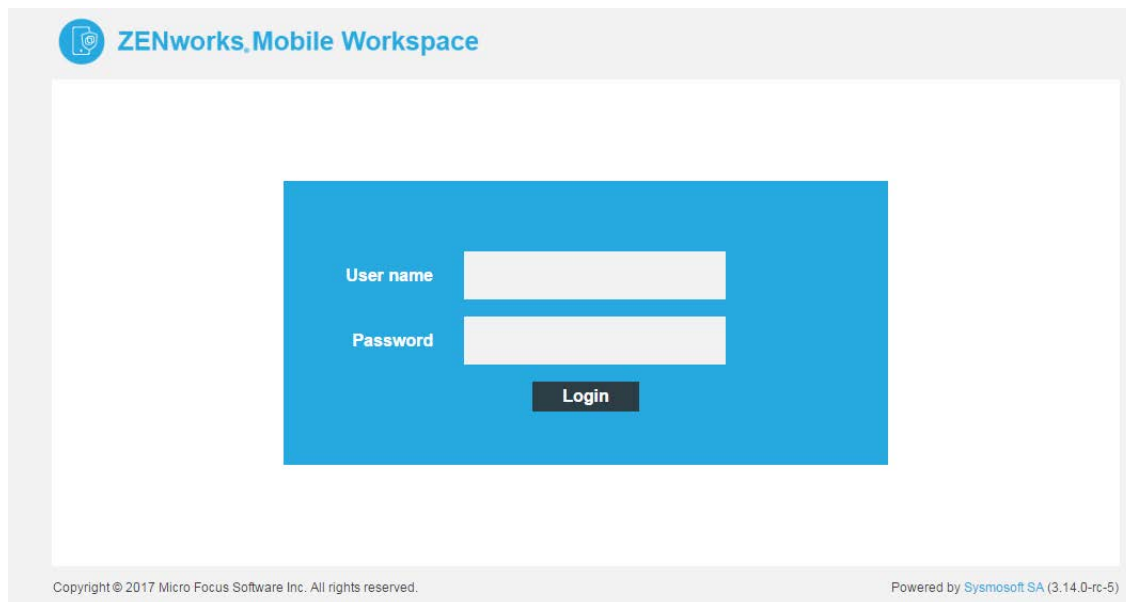


Figure 16: Security Server Console

Well done, your ZENworks Mobile Workspace server has been successfully started!