How to remotely WakeUp your machine

Register your default machine (Optional)

1. From your office computer that you want to WakeUp navigate to http://ap-srv-sccm-1/webwakeup in any browser
2. Once at the Web WakeUp homepage click on the “register” link in the “My Computers section”

   a. Alternatively you can manually configure your registered machine
      i. Click on the “Register” tab
      ii. In the “Register” box enter the name of the computer shown in the “Logged in as...” row at the top left corner of the page and click the “Register” button.

Waking a computer

1. If you are off campus connect to the UF VPN
2. Navigate to http://ap-srv-sccm-1.ad.ufl.edu/webwakeup in any browser
3. Waking a registered computer
   i. On the default homepage click on the “Wake up” button (It may take a few seconds for the homepage to fully populate)

4. Waking an unregistered computer
   a. **Waking a computer by exact name**
      i. Click on the “Wake up Computer” tab
      ii. Enter the computer name in the “Wake up Computer” field and click the “Wake up” button
b. Searching for a computer to wake up
   i. Click on the “Search” tab
   ii. Enter search criteria in the “Wake up Computer” field
       1. Ex: ufad\ apit, ufad\ ap-it
   iii. Click the “Search” button
   iv. Click on the computer name in the “Computers Found” column that you want to wake

For more detailed instructions please view the 1E Web WakeUp documentation below.
Section 6  Using 1E Web WakeUp

This section describes the user interface to 1E Web WakeUp.

6.1 Logging on to 1E Web WakeUp

To access this page you browse to the web service using Internet Explorer using the following URL: http://<servername>/WebWakeUp/Default.aspx, where <servername> is the server where the 1E Web WakeUp API has been installed.

6.2 Installing the Web WakeUp ActiveX control via the installer

The Web WakeUp ActiveX control is now also supplied in a stand-alone installer. This means that the control can be rolled out across a network without requiring user intervention the first time they visit the Web WakeUp site.

The name of the installer is WebWakeUpActiveX.msi. There is a single installer switch that controls whether the ActiveX control appears on the preapproved list which enables the ActiveX control to be enabled in IE7 and above without user intervention. The installer switch is described in the following table:

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREAPPROVED</td>
<td>Set to 1 to enable addition to the preapproved list and not require user intervention when browsing to the site. This is the default so the installer will default to adding the ActiveX control to the preapproved list. Set to 0 to disable addition to the preapproved list and require the user's intervention when they browse to the site before the ActiveX control can be used.</td>
</tr>
</tbody>
</table>

To run this silently with preapproval you would use the following command-line:

Msiexec /i webWakeUpActiveX.msi PREAPPROVED=1 /qb

6.3 Installing the Web WakeUp ActiveX control via the website

If the Web WakeUp ActiveX control has not been previously installed by the network administrator, the first time you browse to the web service you will be asked if you want to install the Web WakeUp software published by 1E, as shown in Figure 2. The ActiveX control that gets installed when you click Install enables 1E Web WakeUp to confirm the name of the local computer, specifically for the purpose of registering the computer as the default wake up.

Figure 2 - The component installation dialog

Note: If you choose not to install the ActiveX control 1E Web WakeUp will instead attempt to perform a reverse DNS lookup in order to derive the local computer name. The accuracy of this operation is dependent on DNS being correctly configured and up to date and may affect 1E Web WakeUp’s ability to wake the computer at a later date.
6.4 The 1E Web WakeUp home page

*Figure 3* shows the default page for the ACMEServer/WebWakeUp site with a user `coverlin` logged in to the ACME domain. This page shows that the user does not currently have a default wake up computer.

**Figure 3 - The 1E Web WakeUp default page**

This will usually be the case when the user browses to the 1E Web WakeUp site the first time. In this case the user has three choices: they can register a computer by name; they can enter an exact name for a computer to wake up or they can search for the computer name to wake up.
6.5 Registering a computer for Wake Up

Users can register up to 20 computers for wake up. The Register tab on the right-hand side of the interface lets the user register a computer by name for a future wake up. Registration adds the named computer to the list of registered computers displayed on the My Computers tab. Clicking on the Register tab displays the Register page. To register a computer you enter the computer’s name into the text field, as shown in Figure 4, and then click the Register button.

Figure 4 - The Register page

Once the computer is registered 1E Web WakeUp will confirm the result to the user and the name is added to a Registered computers list that appears at the bottom of the page, as shown in Figure 5.

Figure 5 - A successful registration
Unregistering a computer
To unregister a computer you click on the bin icon at the right-hand end of its entry in the Registered computers list on the Register tab. The computer is removed immediately.

6.6 Waking up registered computers
Once a computer has been registered for wake up, the next time the user browses to the My Computers page its current status will be determined and then displayed on the page. When there is just a single registered computer the My Computers page will look similar to the page shown on Figure 6.

The name and current status of the registered computer is displayed in text on the right-hand side of the screen and its status is also shown on the icon. More information on the status icons can be seen under heading 6.10 - The computer status icon. You can wake a registered computer from either the off or unknown states.

Figure 6 - A single registered computer

Clicking on the Wake up button initiates the attempt to wake the computer up. The wake up signal is sent to the computer and 1E Web WakeUp periodically checks the computer to see if it is now awake. The attempts to check to see if the computer is awake are done during a fixed period, if the computer has not responded before the period finishes its status will be set to unknown.
When more than one computer is registered they appear in a list at the bottom of the **My Computers** page, as shown in **Figure 7**.

**Figure 7 - More than one registered computer**

![Image of registered computers](image)

The name and current status for each registered computer is displayed in the list. The name appears on the left and the status icon on the right. More information on the status icons can be seen under heading **6.10 - The computer status icon**.

You can wake a registered computer from either the off or unknown states. To wake a computer you click on its name in the **Registered computers** list.

### 6.7 Remote access to registered computers

When a single registered computer has been awoken or has been discovered to already be awake, the 1E Web WakeUp interface displays a **remote desktop** button that allows the user to access the computer remotely. Clicking the button starts an RDP session on the target computer. The configuration options for RDP are described in Appendix **F - Configuring RDP for 1E Web WakeUp**.

When there are multiple registered computers they are displayed in a list on the **My Computers** page. You can start a remote access session on any computer whose status is on. This is done by clicking the name of the computer in the **Registered computers** list.
6.8 Waking a computer by name

If the user wants to wake up a computer that is different from their registered default, or they do not have a registered default, as long as they know the exact name for the computer they can still wake it up. This is done from the Wake up Computer tab. This method also lets the user specify the domain name for the computer.

*Figure 8* shows the Wake up Computer page with a name entered into the *wake up name* text field and after the user has clicked on the *Wake up* button to initiate the wake up.

*Figure 8 - Waking a computer using its exact name*
Incorrect wake up names
When the wake up name is wrong 1E Web WakeUp will not be able to retrieve any information on the computer to be awoken. When this happens the only choice is for the user to correct the name that has been input. So 1E Web WakeUp notifies the user with an appropriate notification and gives them the opportunity to make a change to the entered name. In this case the computer status icon on the right of the console will change to one that represents the fact that the name is incorrect. Figure 9 shows a computer that could not be found by 1E Web WakeUp.

Figure 9 – When the computer name is not correct

![Incorrect wake up names](image)

Figure 10 shows the Wake up Computer page where a wake up has been successful.

Figure 10 - The computer wakes up successfully

![Correct wake up](image)
6.9 Waking a computer using search

If the user wants to wake a computer that is different from their registered computer, or there is no registered computer and the user is unsure of the name, they can instead use a search string to return names that are similar to any parts of it that they do recall. This is done on the Search tab. Here the user can enter the search text in the text field and then click the Search button to initiate the search.

Domain and computer name search

The search text does not allow the use of wildcards but it does enable the entry of a single search string that will match against the domain and computer name fields separately. The rules that govern the search are as follows:

- Searches are not case sensitive
- Backslash "\" separates the domain name search string from the computer name search string. If the \ character is omitted the search text will be performed on the computer name only. The format of the search string is DomainSearch\MachineSearch.
- Empty search strings return all entries

The search text matches against presence of the search characters in the relevant field. So the search text XP will match computers whose netBIOS names contain the letters XP in that order such as XP01034, Experience1, vaxpac89 etc.

Searching for domains is done by adding the domain search at the start with a backslash. So the search text \M will return all the computers in domains that contain the letter M whose computer names contain the number 1.

If you want to return all the items in a particular field you can leave the search string empty. So the search text \ will return all computers in domains that contain the letter M. Similarly leaving the search field entirely blank will retrieve all computers in all domains.

**Note: the above description is slightly different when 1E Web WakeUp is running in authorized mode. In that case the search will only return the computers the user is authorized to see.**

Search result limits

The number of computers returned by a search is limited by default to 30. The results are not paged so if the required computer is not initially shown the search will need to be refined. A 1E Web WakeUp administrator can raise the limit on a site-wide basis up to a maximum of 500, as described in Appendix C - Configuration Options, under the heading Setting the maximum number of computers returned, but this may impact on page loading times if a general search is performed on a large network.
An example search

When the Search button is clicked 1E Web WakeUp will return computers whose names match the search string; the search is not case sensitive. Figure 11 shows the search results for an entered domain string "ACME\".

Figure 11 - The search results

By default the maximum number of item returned is 30, but this can be configured by the administrator by setting the MaxMachines parameter in the WakeUp.Web.Services.exe.config file, as described in Appendix C - Configuration Options, under the heading Setting the maximum number of computers returned.
To wake a computer from the search results the user just clicks on the name of the computer. *Figure 12* shows what happens after the user clicks on a particular computer name. The attempt to wake the computer has started and continues to countdown in the same way as for the registered wake up and wake up by name operations.

**Figure 12- Attempting to wake a computer from the search results**

To search for a computer, enter the search characters in the text field below and then click the search button.

The list of computers found exceeds the maximum number of 30 items. If you cannot see the computer you want please modify the search to limit the results.

**Computers found:**

- ACME/ACMEMKT000001
- ACME/ACMEMKT000002
A wake up timeout

In our example the timer ticks down all the way to zero and the user's attempt to wake the ACMEVADL10 computer times out. When this is the case the user is notified and the computer status icon changes accordingly, as shown in Figure 13.

A timeout does not necessarily mean that there has been an error as the computer may just have been slow in starting up. In this case it is recommended that the user tries the computer again after a reasonable time. If the computer still does not respond then they should contact their network administrator to see if there is a problem with the computer or network.

**Figure 13 - When 1E Web WakeUp is unable to determine the state of the computer**
6.10 The computer status icon

The status of registered computers and the attempts to wake computers by name or by search is signalled by the computer status icon that appears at the bottom of the console. The following table shows the possible states and the icon used to represent the state:

<table>
<thead>
<tr>
<th>Main Icon</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>The computer is awake.</td>
</tr>
<tr>
<td>![Question Mark]</td>
<td>The computer is not awake. When the computer is in this state the user can attempt to wake the computer up by clicking on this icon.</td>
</tr>
<tr>
<td>![Exclamation Mark]</td>
<td>The attempt to wake the computer timed out. This only signifies that 1E Web WakeUp was unable to determine the wake state for the computer. In this case the user should wait for a suitable period before attempting to communicate with the computer.</td>
</tr>
<tr>
<td>![X]</td>
<td>The computer name entered is incorrect. In this case the user may want to modify the name and try again.</td>
</tr>
<tr>
<td>![X]</td>
<td>There was a problem when attempting to communicate with the computer. This may be due to a network problem or a problem with the 1E WakeUp server. In this case the user will need to contact the network administrator to remedy the problem.</td>
</tr>
</tbody>
</table>
The following table shows the status icons displayed in the registered computers list on the My Computers tab when there are multiple registered computers.

<table>
<thead>
<tr>
<th>Status Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✅</td>
<td>The computer is awake. Clicking on the computer name will attempt to start a remote desktop session on that computer.</td>
</tr>
<tr>
<td>⚪</td>
<td>The computer is not awake. Clicking on the computer name will attempt to wake up that computer.</td>
</tr>
<tr>
<td>🕔</td>
<td>The attempt to wake the computer timed out. This only signifies that 1E Web WakeUp was unable to determine the wake state for the computer. In this case the user should wait for a suitable period before attempting to communicate with the computer. Clicking on the computer name will attempt to wake the computer.</td>
</tr>
<tr>
<td>✗</td>
<td>The computer name entered is incorrect. In this case the user may want to modify the name and try again.</td>
</tr>
<tr>
<td>☢</td>
<td>There was a problem when attempting to communicate with the computer. This may be due to a network problem or a problem with the 1E WakeUp server. In this case the user will need to contact the network administrator to remedy the problem.</td>
</tr>
</tbody>
</table>

**The computer wake up progress icon**

During the attempt to wake up a computer 1E Web WakeUp displays a progress icon with an hour glass, as shown in *Figure 14.*

**Figure 14 - The computer wake up progress icon**