DUO Two-Factor Authentication (DUO 2FA)
Deployment Guide for Windows systems

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<td>1.0</td>
<td>2018-03-09</td>
<td>Initial version</td>
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<td>2.0</td>
<td>2019-03-29</td>
<td>Added 1.3 item (v).</td>
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<tr>
<td>2.1</td>
<td>2022-01-14</td>
<td>Removed outdated client and server versions in Section 1.1.</td>
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<td>2.2</td>
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1. DUO 2FA Integration for MS Windows Clients & Servers Logon

The Duo 2FA can be integrated to all Windows login attempts, whether via local console or over RDP. If the 2FA is enabled for both RDP and console logons, and in case there is any error during the login, you can bypass the 2FA by restarting Windows into Safe Mode.

1.1. Supporting Systems

Duo 2FA for Windows logon supports the following operating systems of both client and server:

- **Clients:**
  - Windows 8.1, 10, 11

- **Servers (GUI and core installs):**

1.2. Security Level defined for Windows Clients & Server

The security levels for Windows Clients & Servers are defined as below:

<table>
<thead>
<tr>
<th></th>
<th>Windows Clients</th>
<th>Windows Server</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Duo Mobile App</strong></td>
<td>Don’t require up-to-date security patches for Duo Mobile.</td>
<td>Require up-to-date security patches for Duo Mobile.</td>
</tr>
<tr>
<td><strong>Mobile Screen Lock</strong></td>
<td>Allow authentication from devices without a screen lock.</td>
<td>Don’t allow authentication from devices without a screen lock.</td>
</tr>
</tbody>
</table>

1.3. Prerequisites

i. .NET Framework 4.5 or later is required.

ii. Submit request to Service Desk > Information Security > General Enquiry > 2FA for getting the information below:
   a. Get the **Integration Key**, **Secret Key** and **API Hostname**.
   b. IP range of DUO cloud service or on-premise DUO proxy

iii. Grant access right to DUO cloud service:
   a. Client PCs: grant outgoing traffic to DUO cloud service
   b. Servers: two methods for connecting to DUO services:
      i. Directly connect to DUO cloud service
      ii. Connect to on-premise DUO proxy server
   c. PAW: Connect to on-premise DUO proxy with fail-safe option

iv. Windows users must have their passwords to login to the system, user with blank password would not be able to login after Duo 2FA is integrated with the system.

v. Windows login username must be matched as below:
   a. Domain-joint systems: UPN
   b. Non domain-joint systems: University ID, sAMAccountName, or Computing ID
2. **Standalone Installation for Windows Clients & Servers**

**Steps:**


ii. Run the Duo Authentication for Windows Logon installer with administrative privileges. **Click Yes** to install.

![Image of User Account Control notification]

iii. **Click Next** to start the installation.

![Image of InstallShield Wizard]

*WARNING:* This program is protected by copyright law and international treaties.
iv. Input the **API Hostname** provided by DUO administrator, then click **Next**.

![Image of Duo Authentication for Windows Logon x64 - InstallShield Wizard](image)

v. Input the **Integration Key** and **Secret Key** provided by DUO administrator, then click **Next**.

![Image of Duo Security Account Details](image)
vi. Then select the appropriate checkbox(es) for your system:

![Duo Authentication for Windows Logon x64 - InstallShield Wizard]

**Recommended for client systems only.**

**Recommended for both client & server systems.**

**For client systems:**

It is recommended to check **Bypass Duo authentication when offline (FailOpen)** and **Use auto push to authenticate if available**.

**For server systems:**

It is recommended to check **Use auto push to authenticate if available**.

Then click **Next** to continue.
vii. Click **Next twice** to skip the following steps.
viii. Click **Install**.

![Install Wizard](image1.png)

ix. Installation complete, click **Finish**.

![Finish Installation](image2.png)

3. **Installation by Group Policy for Windows Clients**

Active Directory domain administrators may deploy and configure Duo 2FA for their domain-joined clients via the Group Policy. Details steps can be found at [https://duo.com/docs/winlogon-gpo](https://duo.com/docs/winlogon-gpo).

4. **Reference**

Windows Server integration: [https://duo.com/docs/rdp](https://duo.com/docs/rdp)

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