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| Project Name: | OpenVPN Implementation |
| Prepared by: | NAJD ALEID |
| Date: | 10/06/2022 |

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| **Overview** |
| **OpenVPN is responsible for handling client-server communications. It is a secure, encrypted tunnel between the VPN client and the server. It uses OpenSSL and UDP or TCP protocol to communicate the data. The most common protocol used by OpenVPN is UDP.**  **Deployment checklist:**  **1. Generate the client installation files by clicking the Download Client button on the server tab in OpenVPN.**  **2. Select the appropriate installation file.**  **3. Distribute the configuration files go all the users.** |
| **Hardware & Software Requirements, Possible Integrations** |
| **Hardware Requirements:**  **1. A CPU that supports AES-NI.**  **2. Memory depending on the number of devices connected.**  **3. A proper bandwidth depending on the amount of data being pushed through the server.**  **4. Recommended 16GB of disk space or more if the database is extremely large.**  **Software Requirements:**  **1. A Linux operating system that supports OpenVPN.**  **2. A Non static compiled kernel.**  **Possible Integrations:**  **1. LDAP server 2. RADIUS server** |
| **Additional Administrative Considerations** |
| **1. VPN settings must be changed, the network address, the number of netmask bits and the group default IP address network must be added. The group default IP address network is optional but is recommended to be used.**  **2. The routing settings must be changed according to the company needs**  **3. Proper user settings must be indicated in the User’s Permission page.** |

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| Project Name: | Duo 2FA Implementation |
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| **Overview** |
| **2FA is a type of multi-factor authentication. It uses two factors to confirm the identity of the user. The factors include something you know and something you have or something you are. 2FA protects the users against attacks like unsecure logins, social engineering attack, and brute-force attack.**  **Deployment Checklist:**  **1. Turn the security defaults to either on or off.**  **2. Use Conditional Access policies.**  **3. Turn on the Modern Authentication for your organization.**  **4. Turn off the legacy per-user MFA.** |
| **Hardware & Software Requirements, Possible Integrations** |
| **Hardware Requirements:**  **1. RAM**  **2. CPU – 2 cores**  **Software Requirements:**  **1. A 64-bit Operating system.**  **2. Java Run time environment.**  **3. A domain.**  **4. A browser.**  **Possible integrations:**  **1. LDAP**  **2. MySQL**  **3. RADIUS server**  **4. OpenVPN**  **5. Wordpress** |
| **Additional Administrative Considerations** |
| **1. Use additional security verification page.**  **2. Change the default security verification method.**  **3. Turn on two-factor verification prompts on a trusted device** |