**MASTER SERVER NETWORK REQUIREMENTS:**

| **CP Port** | **Allowed Connections** | **To / From** | **Description** |
| --- | --- | --- | --- |
| 80 / 443 | Inbound | From: Hosts connecting to the Web Console. | To allow hosts on the network to access the Web Console. |
| 8843 | Outbound | To: Ground Labs update server. | (**Optional**) To allow the Master Server to receive updates from the Ground Labs update server. |
| 11117 | Inbound | From: Node or Proxy Agent hosts. | To allow Node and Proxy Agents to establish a connection to the Master Server. |

**NODE AGENT NETWORK REQUIREMENTS:**

| **TCP Port** | **Allowed Connections** | **To / From** | **Description** |
| --- | --- | --- | --- |
| 11117 | Outbound | To: Master Server. | A Node Agent establishes a connection to the Master Server on this port to send reports and receive instructions. |

**PROXY AGENT NETWORK REQUIREMENTS:**

| **TCP Port** | **Allowed Connections** | **To / From** | **Description** |
| --- | --- | --- | --- |
| 11117 | Outbound | To: Master Server. | A Proxy Agent establishes a connection to the Master Server on this port to send reports and receive instructions. |

|  |
| --- |
|  |

NOTE: except agent port, all other ports may change based on target

### Agentless Scans:

Make sure that the Target and Proxy Agent host fulfil the following requirements:

| **Target Host** | **Proxy Agent** | **TCP Port 1** | **Requirements** |
| --- | --- | --- | --- |
| Windows host | Windows Proxy Agent | Windows Server 2008 and newer versions:  Ports: 135,139 & 445  Dynamic ports 9152 – 65535  Windows Server 2003 R2 and older:  Dynamic ports 1024 - 65535  WMI can be configured to use static ports instead of dynamic ports. | * Bi-directional SCP must be allowed between the Target and Proxy Agent host. * The Target host security policy must be configured to allow the scanning engine to be executed locally. * The Target credential must have the required permissions to read, write and execute on the Target host. |
| Unix or Unix-like host | Windows or Unix Proxy Agent | * Port ­. 22 | * Bi-directional SCP must be allowed between the Target and Proxy Agent host. * The Target host security policy must be configured to allow the scanning engine to be executed locally. * The Target credential must have the required permissions to read, write and execute on the Target host. |

### Databases

| **Destination TCP Port (default)** | **Protocol/Target Type** | **Description** |
| --- | --- | --- |
| 3306 | MySQL or MariaDB server | To scan MySQL or MariaDB databases. |
| 1433 | Microsoft SQL server | To scan Microsoft SQL databases. |
| 27017 | MongoDB server | To scan MongoDB databases. |
| 1521 | Oracle database server | To scan Oracle databases. |
| 5432 | PostgreSQL server | To scan PostgreSQL databases. |

**Network Storage**

| **Protocol/Target Type** | **Destination TCP Port (default)** | **Description** |
| --- | --- | --- |
| CIFS/SMB server | 445 | To scan Windows remote file shares via CIFS.  **Additional ports**  For Windows 2000 and older:   * 137 (UDP) * 138 (UDP) * 139 (TCP) |
| SSH server | 22 | To scan Unix or Unix-like remote file shares via SSH. |
| NFS server | 2049 (TCP or UDP) | To scan NFS file shares.  **Additional ports**  NFSv4 requires only port 2049 (TCP only).  NFSv3 and older must allow connections on the following ports:   * 111 (TCP or UDP) * Dynamic ports assigned by rpcbind.   rpcbind assigns dynamic ports to the following services required by NFSv3 and older:   * rpc.rquotad * rpc.lockd (TCP and UDP) * rpc.mountd * rpc.statd   To find out which ports these services are using on your NFS server, check with your system administrator.  You can assign static ports to the required services, removing the need to allow connections for the entire dynamic port range. |

### Emails

| **Destination TCP Port (default)** | **Protocol/Target Type** | **Description** |
| --- | --- | --- |
| 143 | IMAP server | To scan email accounts using IMAP. |
| 993 | IMAPS server | To scan email accounts using IMAPS. |
| 443 | Microsoft Exchange Server (EWS) | To scan Microsoft Exchange servers via EWS. |
| 1352 | HCL Notes client | To scan HCL Notes clients. |

**Websites and Cloud Services**

| **Destination TCP Port (default)** | **Protocol/Target Type** | **Description** |
| --- | --- | --- |
| 80 | HTTP server | To scan websites. |
| 443 | HTTPS server | To scan HTTPS websites. |
| 443 | Cloud services | To scan cloud services. |