HD4DP 2.0 FIREWALL REQUIREMENTS V8

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1. OBJECTIVE AND PURPOSE

This documentation details the necessary network and firewall adaptations required to for the smooth operation of HD4DP 2.0.

2. REQUIRED FIREWALL ADAPTATIONS

2.1. Open ports from the Linux server.

The server must have access to rprox.healthdata.be (outbound connection).

From:
- TCP 80: HTTP
- TCP 443: HTTPS
- TCP 18081: Nexus Docker repository
- TCP 20221 and 20222: SFTP to send forms

To: 94.143.190.169 - rprox.healthdata.be

Open ports inside the local network to the HD4DP 2.0 server. Used for connection to our application running on the Linux server (Internal connections between different VLANs - no outbound connection to the internet):
- TCP 80: HTTP
- TCP 443: HTTPS
- TCP 4201: HD4DP 2.0 Frontend
- TCP 3000: FormIO form builder
- TCP 3001: Metabase database viewer
- TCP 8443: Nextgen/Mirth connect
- TCP 22222: CSV upload

Only if your organization has an X-Connect encryption module. The Linux server must have a connection with the X-Connect environment in your network in order to send CSV files to the encryption module. Please open these ports on the HD4DP 2.0 server inside the local network:
- UDP 137 + 138 + 445: Samba protocol
- TCP: 139 + 445: Samba protocol

The HD4DP 2.0 applications runs in Docker containers. The default Docker network is 172.17.0.0/16. Another separate Docker network is created for HD4DP 2.0, the range is automatically selected by Docker, usually it's 172.18.0.0/16 or 172.19.0.0/16. If any of these networks conflict with your local network configuration, please let Healthdata know so we configure different network ranges for HD4DP 2.0.

2.2. EAM:

- TCP 5671, 5672 and 443: eam-production.servicebus.windows.net: HTTPS and AMQP 1.0

2.3. HERA:

- TCP 2222: hera-dc.healthdata.be

2.4. Certificates

Self-signed certificates are not allowed on Firewall or Proxy.

3. URL WHITELISTING

Whitelist these websites from the Linux server, including the sub directories (/*)

- https://www.postgresql.org/*
- http://*.postgresql.org/*
- https://*.postgresql.org/*
- http://*.ubuntu.com/*
- https://*.ubuntu.com/*
- https://ubuntu.com/*
- https://*.ubuntu.com/*
- http://pk.archive.ubuntu.com/*
- http://be.archive.ubuntu.com/*
- http://archive.canonical.com/*
- http://*.canonical.com/*
- https://*.canonical.com/*
- https://*.docker.com/*
- https://*.docker.io/*
- https://galaxy.ansible.com/*
- https://*.mongodb.org/*
- https://*.mongodb.com/*
- https://nginx.org/*
- https://pypi.org/*
- https://*.pythonhosted.org/*
- https://*.npmjs.org/*
- https://*.github.com/*
- https://github-releases.githubusercontent.com/*
- https://production.cloudflare.docker.com/*
- https://repos.influxdata.com/*
- https://license.form.io/*
- https://cdn.form.io/*
- https://www.ehealth.fgov.be/*
- https://wwwacc.ehealth.fgov.be/*
- https://services.ehealth.fgov.be/*
- https://tsl.ehealth.fgov.be/*
- https://servicelist.ehealth.fgov.be/*
- http://ocsp-eh-ptpki.confidens.zetes.com/*
- http://crl-eh-ptpki.confidens.zetes.com/*
- https://fonts.googleapis.com/*
- https://prod.mycarenet.be:9443/*
- https://sciensano.service-now.com/*
- https://eam-production.servicebus.windows.net/*
- https://*.healthdata.be/*