

A summary of certificate names, their locations, and modified files

Here's a brief document summarizing the certificate names, their locations, and the modified files for the Mosquitto project:

Certificate Names and Locations on the Rule Host

1. **Root Certificate:**
 - **Certificate Name:** `root.crt`
 - **Location:** `/usr/local/etc/mosquito/certs`
 2. **Client Certificate:**
 - **Certificate Name:** `IntCert.crt`
 - **Location:** `/usr/local/etc/mosquito/certs`
 3. **Client Key:**
 - **Key Name:** `intcert.key`
 - **Location:** `/usr/local/etc/mosquito/keys`
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List of Modified Files

1. **Mosquitto Configuration File:**
 - **File Path:** `/usr/local/etc/mosquitto/mosquitto.conf`
 - **Modifications Made:**
 - Added TLS listener on port 8883.
 - Specified paths for certfile and keyfile:
 - `certfile /usr/local/etc/mosquito/certs/IntCert.crt`
 - `keyfile /usr/local/etc/mosquito/keys /intcert.key`
 - Enabled client certificate verification with `require_certificate true` for secure authentication.
 - Set TLS version to `tlsv1.1`.
2. **Password File:**
 - **File Path:** `/usr/local/etc/mosquitto/pwfile`
 - **Modifications Made:**
 - Added username (`abid`) and hashed password for secure access to the MQTT server.
3. **Access Control List (ACL) File:**
 - **File Path:** `/usr/local/etc/mosquitto/aclfile`
 - **Modifications Made:**
 - Configured access control to allow users to publish/subscribe based on username.

Summary of Actions Taken

- Created and configured a root and client certificate for secure communication.
- Modified `mosquitto.conf` to enable TLS, specify certificate locations, enforce client certificate verification, and configure user authentication.
- Restarted the Mosquitto service to apply all changes, ensuring that the secure configuration is active.