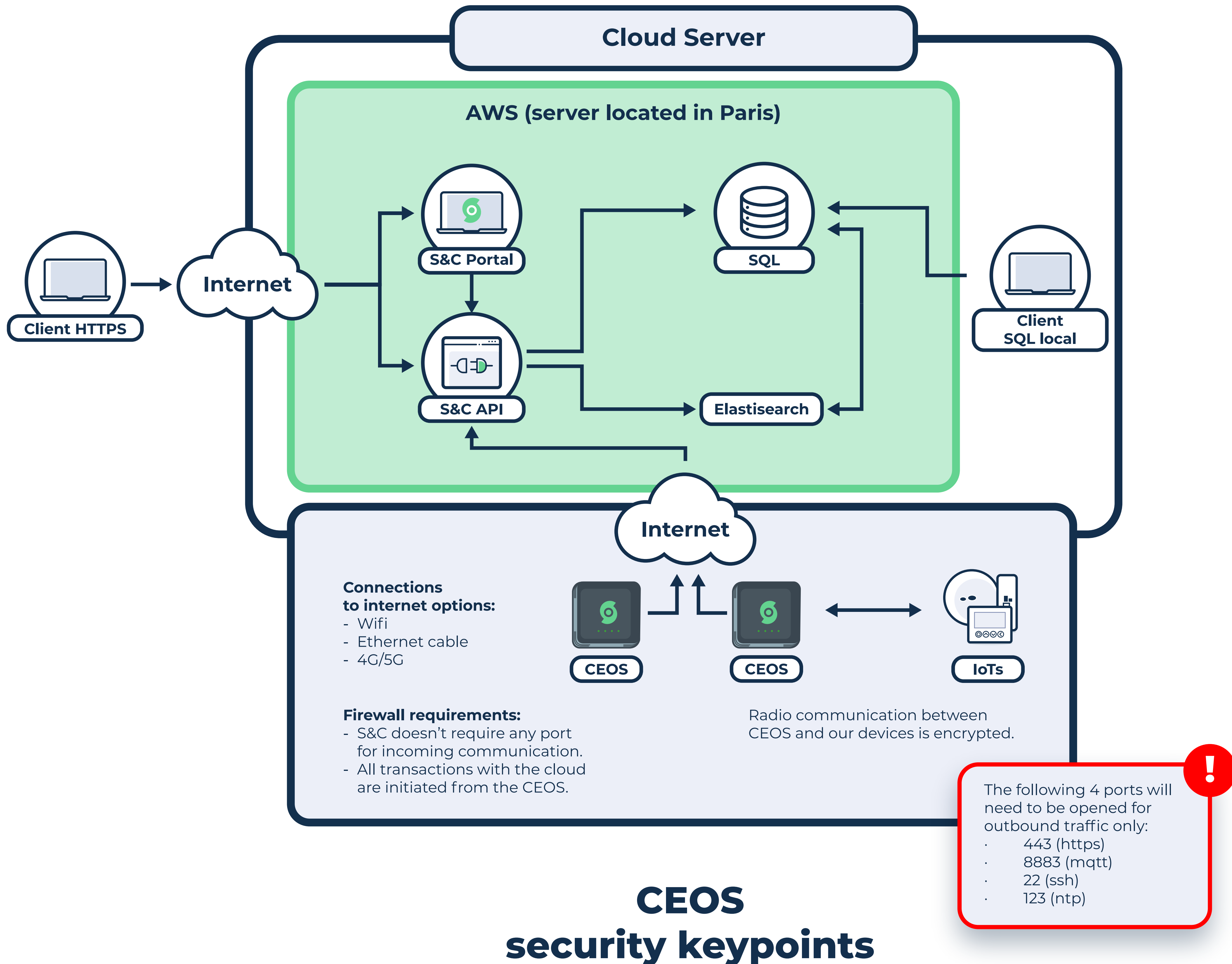


Connection and Cloud Security



CEOS security keypoints

- The overall risk of a hacked CEOS is limited to its usage

- Each CEOS has unique identity/credentials to access S&C ressources limiting scale of attack if hacked.
- CEOS doesn't contain shared security assets.
- CEOS sensitive identity/credentials are encrypted in the persistent storage.
- Each CEOS has a unique key for the encryption.
- This key can only be used if the CEOS is booted in secure mode.
- Booting in secure mode requires a signed firmware.
- CEOS OTA updates.

- Requires an update bundle signed with a Smart & Connective certificate issued by DigiCert.

- Impossible to push a malicious update.
- The networking architecture is also a protection.
- CEOS are in a local network and not reachable directly from the WAN.
- All communications are initiated from the CEOS.
- REST-API communication is always initiated from CEOS.

- MQTT API:

- CEOS ACL doesn't allow to publish to other topics than its own.
- MQTT user account hacked could be revoked easily.