Use Case: Connected Energy Infrastructure

Situation

A major US energy corporation, part of the nation's critical infrastructure, required a cloud platform to secure and manage devices, deployed as part of their connected operations.

Remote sensors located across their infrastructure collect and transmit data via IoT Edge gateways to the cloud to automate the operations of oil rigs and refineries. Data collected by these devices is used to report important telemetry data in real-time, such as pressure, temperature, leakage, and potential intrusion.

Due to the critical nature of the data collected by these devices, a strong root of trust and automated identity lifecycle management is required to secure communications to and from the cloud over time.

Solution

Device Authority KeyScaler is used to provide:

- Automated Identity Lifecycle Management for Azure IoT Edge Gateways and leaf devices
- Seamless integration with existing enterprise PKI services
- Zero touch Automated Device Provisioning using X.509 certificates to DPS and IoT Hub
- Generation of device root-of-trust using Dynamic Device Key Generation (DDKG)

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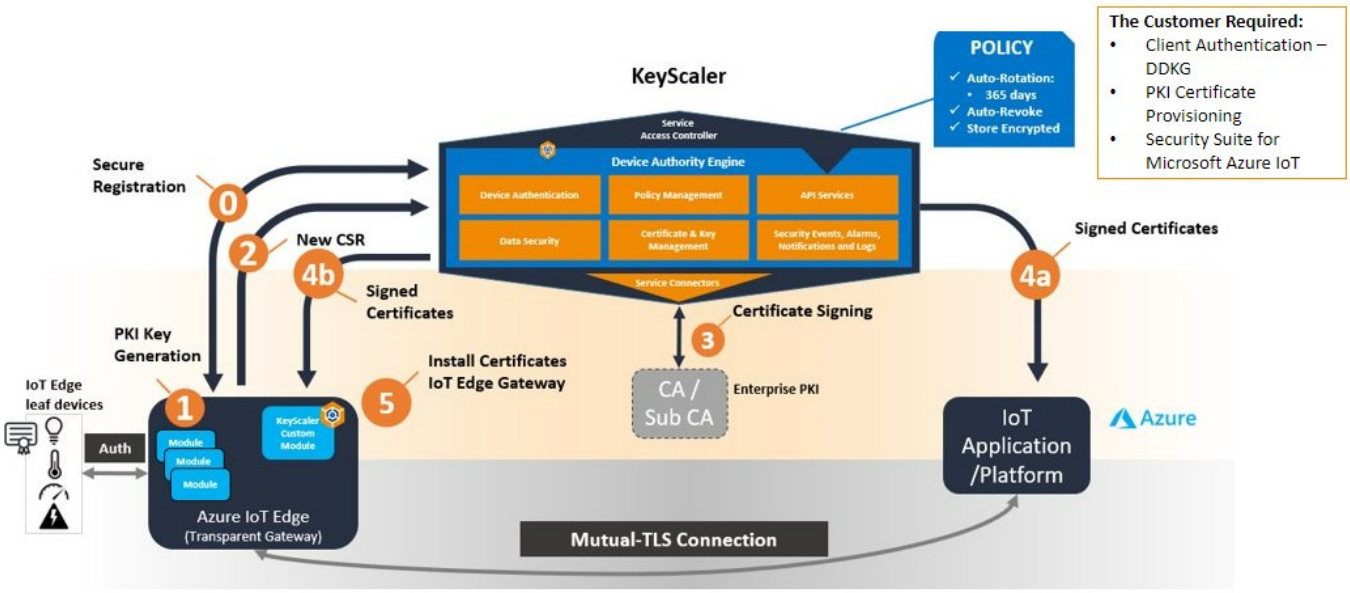
Industrial IoT: Connected Energy Infrastructure



Conclusion

By Implementing KeyScaler, the customer could take advantage of a faster time to value by using pre-built integrations to enterprise IoT platforms, leveraging existing PKI infrastructure, and securing critical operational data.

This resulted in:

- Streamlined device security, reducing administrative burden and freeing up internal FTE resources.
- Automated, secure integration to existing services through KeyScaler's API's.
- Improved ability to prevent compromise and speed incident response, minimizing customer disruption, preserving brand reputation, and reducing potential liability.

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