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| """Publish a sample RFID scan payload to AWS IoT Core.""" |
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| import json |
| import random |
| from datetime import datetime |
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| import boto3 |
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| IOT\_TOPIC = "rfid/scan" |
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| def build\_payload() -> dict: |
| return { |
| "item\_id": f"ITEM\_{random.randint(1, 999):03d}", |
| "expiry\_date": "2025-03-15T12:00:00Z", |
| "location": "Shelf\_A1", |
| "device\_id": "READER\_42", |
| "timestamp": datetime.utcnow().replace(microsecond=0).isoformat() + "Z", |
| } |
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| def main() -> None: |
| client = boto3.client("iot-data") |
| payload = build\_payload() |
| client.publish(topic=IOT\_TOPIC, qos=1, payload=json.dumps(payload)) |
| print("Published payload:", payload) |
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| if \_\_name\_\_ == "\_\_main\_\_": |
| main() |