Guide: Using Azure CLI to Connect to IoT Hub and View Device Logs

1. Install and Configure Azure CLI

- Download and install the Azure CLI: https://learn.microsoft.com/en-us/cli/azure/install-azure
 Log in to your Azure account: az login
 - If you have multiple subscriptions:
 - az account list -o table
 - az account set --subscription "<SUBSCRIPTION_NAME_OR_ID>"
- 3. Confirm you're connected:

az extension list -o table

az account show

2. Install IoT CLI Extension

Install the IoT extension required for IoT Hub commands:
az extension add --name azure-iot
Check installed extensions:

3. Get IoT Hub Connection String

Fetch the IoT Hub connection string to avoid subscription mismatches: az iot hub show-connection-string --hub-name vynd-dev-migration-iot --resource-group vynd-dev-fu

Example output:

HostName=vynd-dev-migration-iot.azure-devices.net; SharedAccessKeyName=iothubowner; SharedAccessKe

4. Monitor Device Logs (Telemetry)

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Option A - Filter by Device:
az iot hub monitor-events --login "<IOTHUB_CONNECTION_STRING>" --device-id SIM-001

Option B - See All Devices:
az iot hub monitor-events --login "<IOTHUB_CONNECTION_STRING>"

Option C - Include Historical Messages (last 10 minutes):
az iot hub monitor-events --login "<IOTHUB_CONNECTION_STRING>" --enqueued-time "now-10m"
```

5. Routing Notes

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If only custom routes exist (e.g., to Service Bus), the built-in Event Hub endpoint may not get To enable CLI monitoring, add a route to the built-in endpoint:

az iot hub message-route create --resource-group vynd-dev-full-rg --hub-name vynd-dev-migration-

Confirm routes:

az iot hub message-route list --resource-group vynd-dev-full-rg --hub-name vynd-dev-migration-io
```

6. Troubleshooting

No logs showing?

- Check routing to ensure telemetry reaches 'events'.

Authentication issues?

- Ensure the IoT Hub connection string is correct.

Check device connectivity:

az iot hub device-identity show --hub-name vynd-dev-migration-iot --resource-group vynd-dev-full

Summary

- Use az login to authenticate.
- Always fetch and pass the IoT Hub connection string with --login.
- Use az iot hub monitor-events to view telemetry.
- If using custom routes, add one to 'events' for CLI monitoring.