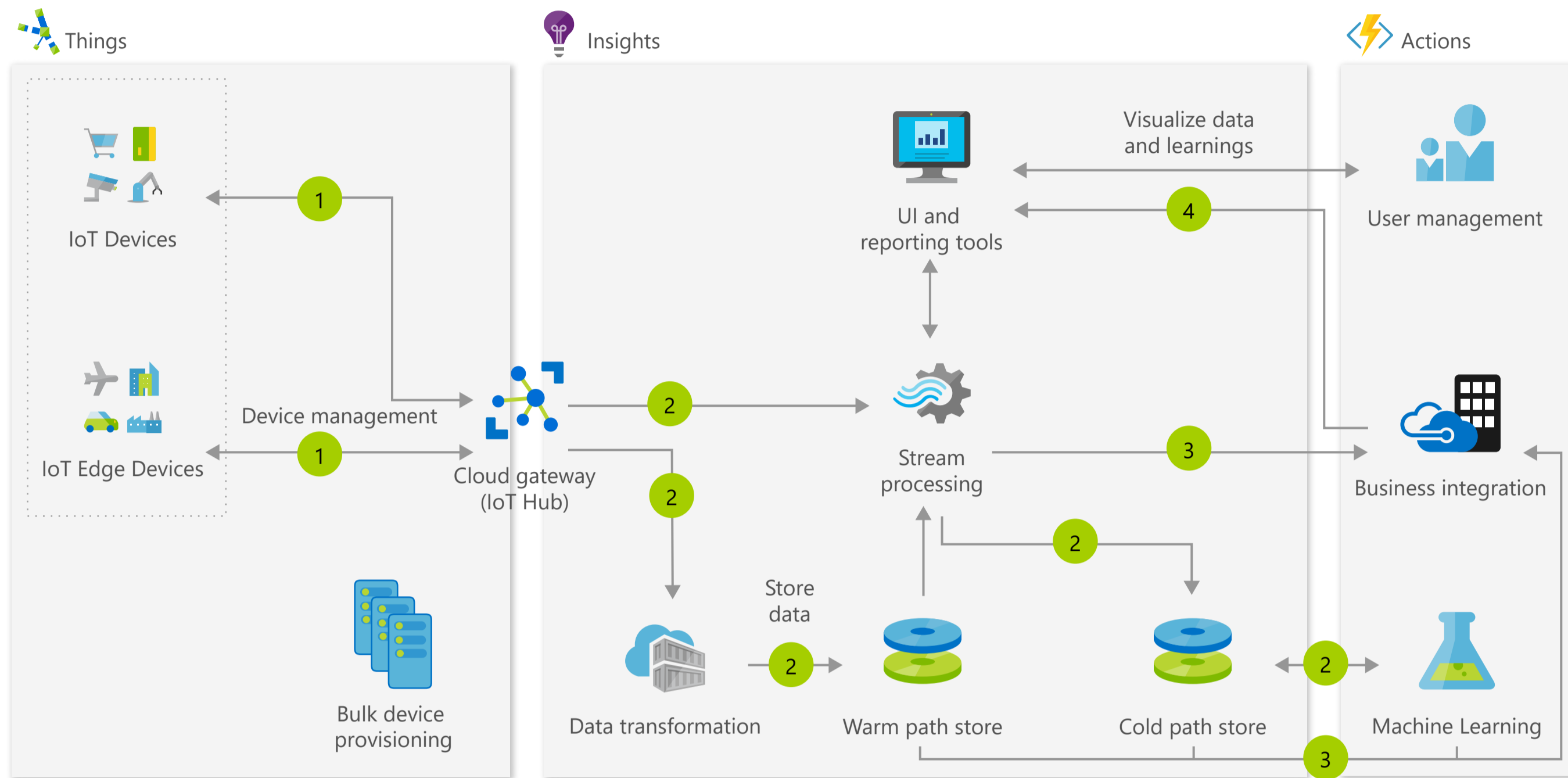


# Subsystems and crosscutting



## Architecture overview

We recommend an architecture for IoT applications that is cloud native, micro-service, and serverless based. The architecture also supports a hybrid cloud and edge compute strategy as some on-premises data processing is expected. To scale individual subsystems horizontally, we recommend use of an orchestrator, such as Azure Managed Kubernetes or Service Fabric, or PaaS services that offer built-in horizontal scale capabilities, like Azure App Services.

- 1 Devices send telemetry records or events to the cloud gateway.
- 2 The following steps happen in parallel:
  - Stream processing and rules evaluation is done for device telemetry records and events.
  - Device telemetry data is transformed (if needed).
  - Device data telemetry is stored.
- 3 Business process integration (such as email, CRM) is executed.
- 4 Device information is visualized and displayed in the UI.

## Products

- |                        |                   |
|------------------------|-------------------|
| Azure Active Directory | Virtual Machine   |
| IoT Hub                | Cosmos DB Account |
| Storage Account        | Web Application   |