

Figure 6.10—IoT Dos and Don'ts

Dos

- **Prepare a threat model.**
- **Evaluate business value.**
- **Holistically evaluate and manage risk.**
- **Balance risk and rewards.**
- **Notify all stakeholders of anticipated usage.**
- **Engage with business teams early.**
- **Gather all stakeholders to ensure engagement and thorough planning.**
- **Look for points of integration with existing security and operational protections.**
- **Examine and document information that is collected and transmitted by devices to analyze possible privacy impacts.**
- **Discuss with relevant stakeholders when, how and with whom that information will be shared and under what circumstances.**

Don'ts

- **Deploy quickly without consulting business or other stakeholders.**
- **Disregard existing policy requirements, such as security and privacy.**
- **Ignore regulatory mandates.**
- **Assume vendors (hardware, software, middleware or any other) have thought through your particular usage or security requirements.**
- **Disregard device-specific attacks or vulnerabilities.**
- **Discount privacy considerations or “hide” data that are collected/transmitted from end users.**

Figure 6.11—Benefits and Risk of Cloud Computing

Benefits

- **Market drive for the cloud**
- **Scalability**
- **Cost-effective implementation**
- **Timely and effective updates**
- **Audit and evidence capabilities**

Risk

- **Loss of governance**
- **Lock-in to one provider**
- **Isolation failure**
- **Compliance**
- **Data protection**
- **Customer management interface compromise**
- **Insecure or incomplete data deletion**
- **Malicious insider**