

1. Why might an auto-approval rule for subscriptions be considered insecure?
Anybody could create a subscription and then it creates a connection to a potentially harmful source. Or even a source that is not going to use the data appropriately.
2. Can you put a sensor pico in more than one sensor management pico (i.e. can it have subscriptions to more than one sensor management pico)?
Yes, you could do that, and you could notify all of them with a foreach
3. Imagine I have sensor types besides temperature sensors (e.g. pressure, humidity, air quality, etc.). How would you properly manage collections of sensors that include heterogeneous sensor types?
You could create different roles for them through subscriptions, then you could filter your actions based on roles.
4. Describe how you'd use the techniques from this lesson to create collections of temperature sensors in particular rooms or areas of a building. For example, I would still have the sensor management pico, but might have collections for each floor in a building.
Each collection would oversee an area. Collections would have subscriptions to the individual sensors. There could be a lead manager that has subscriptions to all the collections. It is also possible that the collections could have subscriptions to each other, but this may be unnecessary based on what functions they provide.
5. Can a sensor pico belong to more than one collection? After the modifications of this lab, if a sensor belonged to more than one collection and had a threshold violation, what would happen?
Yes, it could. You could send messages to each collection it was a part of with a foreach
6. When you moved threshold violation notifications from the sensor to the management ruleset, did you add the rules to an existing ruleset or create a new one? Why?
Existing rulesets. I did this because in the sensor, I was replacing functionality so that the sensor forwarded the notification through the

subscription, rather than sending the message itself. In the sensor_management pico I created a new rule to handle threshold violations via subscriptions. I did not feel the need to create an entire new ruleset for that rule, as it fits within the scope of a sensor collection manager.

7. When you moved threshold violation notifications from the sensor to the management ruleset, did you add only one rule or more than one rule to achieve this end? Which rules did you add and why (i.e. justify the architectural decisions did you made)?

I added one rule to the sensor collection, because one rule was needed to receive the end of a subscription message, and then to call the twilio api with the message.

I did, however, change part of a rule in the sensor pico to use the subscription, rather than send the message itself.

This seemed like the simplest and most direct way to handle the issue, and it is not a particularly complex task.