

### Install and Configure Devices

Connect all devices to a switch or gateway

choose ip dhcp

connect IoT devices to the server

Remote Server ( IP,username,password)

### Diabetic Patient

configure home gateway: ip and select dhcp

monitor values at different devices

### Installing Lubuntu

use network bridge in vm settings

UserID: password = osboxes / osboxes.org

IN linux: sudo su && apt install net-tools

### Packet Tracer 1

| Assessment Items | Status  | Points | Component(s) | Feedback |
|------------------|---------|--------|--------------|----------|
| Network          |         |        |              |          |
| Ceiling Fan      | Correct | 1      | Other        |          |
| Ports            |         |        |              |          |
| IoT Server       | Correct | 1      | Ip           |          |
| Wireless0        | Correct | 2      | Ip           |          |
| DHCP client e... | Correct | 2      | Ip           |          |
| IP Address       | Correct | 2      | Ip           |          |
| Coffee Pot       | Correct | 1      | Other        |          |
| Ports            |         |        |              |          |
| IoT Server       | Correct | 1      | Other        |          |
| FastEthernet0    | Correct | 1      | Ip           |          |
| DHCP client e... | Correct | 1      | Ip           |          |
| IP Address       | Correct | 2      | Ip           |          |
| Home Gateway     |         |        |              |          |
| Internet         | Correct | 0      | Other        |          |
| Wireless         | Correct | 1      | Ip           |          |
| Security Mode    | Correct | 0      | Other        |          |
| Pass Phrase      | Correct | 2      | Other        |          |
| SSID             | Correct | 2      | Other        |          |
| Lamp             | Correct | 1      | Other        |          |
| Ports            |         |        |              |          |
| IoT Server       | Correct | 1      | Other        |          |
| Wireless0        | Correct | 1      | Ip           |          |
| DHCP client e... | Correct | 2      | Ip           |          |
| IP Address       | Correct | 2      | Ip           |          |
| Laptop           |         |        |              |          |
| Wireless0        | Correct | 0      | Ip           |          |
| DHCP client e... | Correct | 2      | Ip           |          |
| IP Address       | Correct | 0      | Other        |          |
| Wireless         | Correct | 1      | Other        |          |
| SSID             | Correct | 0      | Other        |          |
| PC               |         |        |              |          |
| FastEthernet0    | Correct | 0      | Other        |          |
| Ports            |         |        |              |          |
| DHCP client e... | Correct | 1      | Ip           |          |

### Web

```
$ npm install webthing

const {
  Action, Event, Property, SingleThing, Thing, Value,
  WebThingServer,
} = require('webthing');

performAction() {
  return new Promise((resolve) => {
    setTimeout(() => {
      this.thing.setProperty('brightness',
        this.input.brightness);
      this.thing.addEvent(new OverheadEvent(
        this.thing, 102));
    }, resolve);
  }, this.input.duration);
});

thing.addProperty(
  new Property(thing,
    'on',
    new Value(true),
    {
      '@type': 'OnOffProperty',
      title: 'On/Off', type: 'boolean', });
  );
```

### Packet Tracer 2

| Assessment Items | Status  | Points | Component(s) | Feedback |
|------------------|---------|--------|--------------|----------|
| Network          | Correct | 0      | Other        | Correct  |