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| **Description of IoT Features** | | | |
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|
| **Service profile:** IoT Fridge activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
| 2 | time | Time | Time of logging IoT telemetry data |
| 3 | fridge\_temperature | Number | Temperature measurement of a fridge sensor linked to the network |
| 4 | temp\_condition | String | Temperature conditions of a fridge sensor linked to the network, where temperature is high of low based on a predefined threshold value |
| 5 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 6 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |
| **Service profile:** IoT Garage\_Door activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
| 2 | time | Time | Time of logging IoT telemetry data |
| 3 | door\_state | Boolean | State of a door sensor linked to the network where the door is closed or open |
| 4 | sphone\_signal | Boolean | State of receiving the door signal on a phone where the signal is true or false |
| 5 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 6 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |
| **Service profile:** IoT GPS\_Tracker activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
| 2 | time | Time | Time of logging IoT telemetry data |
| 3 | latitude | Number | Latitude value of GPS tracker sensor linked to the network |
| 4 | longitude | Number | longitude value of GPS tracker sensor linked to the network |
| 5 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 6 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |
| **Service profile:** IoT Modbus activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
|  | time | Time | Time of logging IoT telemetry data |
| 2 | FC1\_Read\_Input\_Register | Number | Modbus function code that is responsible for reading an input register |
| 3 | FC2\_Read\_Discrete\_Value | Number | Modbus function code that is in charge of reading a discrete value |
| 4 | FC3\_Read\_Holding\_Register | Number | Modbus function code that is responsible for reading a holding register |
| 5 | FC4\_Read\_Coil | Number | Modbus function code that is responsible for reading a coil |
| 6 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 7 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |
| **Service profile:** IoT Motion\_Light activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
| 2 | time | Time | Time of logging IoT telemetry data |
| 3 | motion\_status | Number | Status of a motion sensor is either on (i.e., 1) or off (i.e., 0) |
| 4 | light\_status | Boolean | Status of a light sensor is either on or off |
| 5 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 6 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |
| **Service profile:** IoT Thermostat activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
| 2 | time | Time | Time of logging IoT telemetry data |
| 3 | current\_temperature | Number | Current Temperature reading of a thermostat sensor connected with the network |
| 4 | thermostat\_status | Boolean | Status of a thermostat sensor is either on or off |
| 5 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 6 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |
| **Service profile:** IoT Weather activity | | | |
| **ID** | **Feature** | **Type** | **Description** |
| 1 | date | Date | Date of logging IoT telemetry data |
| 2 | time | Time | Time of logging IoT telemetry data |
| 3 | temperature | Number | Temperature measurements of a weather sensor linked to the network |
| 4 | pressure | Number | Pressure readings of a weather sensor linked to the network |
| 5 | humidity | Number | Humidity readings of a weather sensor linked to the network |
| 6 | label | Number | Tag normal and attack records, where 0 indicates normal and 1 indicates attacks |
| 7 | type | String | Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records |
|  |  |  |  |