













DATA TRANSFER FROM SENSOR TO IBM CLOUD

TEAM ID	PNT2022TMID52326
PROJECT NAME	SMART WASTE MANAGEMENT SYSTEM IN METROPOLITAN CITIES

■ IBM CLOUD DATA STORAGE

Databases				
Database name		Create Database	{ } JSON	
Your Databases				
Name	Size	# of Docs	Partitioned	Actions
login_credentials	15.4 KB	126	No	  
nodetredwjdj20221105	35.4 KB	4	No	  
sample	350.2 KB	1433	No	  
sensor_data	15.7 KB	90	No	  

Showing 1-4 of 4 databases. Databases per page: 20

■ User Login Data Storage

< login_credentials		Document ID		Options	{ } JSON	
All Documents		Table Metadata { } JSON		Create Document		
Query						
Permissions						
Changes						
Design Documents						
	_id	payload	socketid	socketip	name	
<input type="checkbox"/>	02a5383d1a2e5...	connect	qKqJbnK75N9pL...	117.213.108.1.1...		
<input type="checkbox"/>	0660bcbx5e2898...	change	BPpgWjps9vso2...	117.213.108.1.1...	Login	
<input type="checkbox"/>	0a4da62aa55a58...	change	5O6MqZiv4UFWs...	117.213.108.1.1...	Smart Waste Man...	
<input type="checkbox"/>	0c94cdaac57c96...	change	9oX--IAW9jpf55q...	117.213.108.1.1...	Login	
<input type="checkbox"/>	124e1b34fa4ed0...	change	5O6MqZiv4UFWs...	117.213.108.1.1...	Smart Waste Man...	
<input type="checkbox"/>	142e17edf7db5...	change	9oX--IAW9jpf55q...	117.213.108.1.1...	Login	
<input type="checkbox"/>	16374cb094273...	change	9oX--IAW9jpf55q...	117.213.108.1.1...	Link 4	
<input type="checkbox"/>	1738f5f77cdaf5e...	lost	Jomz3R9pkZj5w...	117.213.108.1.1...		
<input type="checkbox"/>	18c4184eeebdb4...	change	9oX--IAW9jpf55q...	117.213.108.1.1...	Bin Status	

Showing 5 of 11 columns. ☐ Show all columns. Documents per page: 20

■ JSON Format of Data Storage

Save Changes Cancel

Upload Attachment Clone Document Delete

```
1
2 {
3   "_id": "82a5383d1a1e59775c7d5e9c161ef035",
4   "_rev": "1-264a1ceb8974288f7f3258f81c1823f",
5   "payload": "connect",
6   "socketId": "qHg2bn67380pL0yaA489",
7   "socketIp": "117.213.106.1, 10.295.14.12"
8 }
```

■ Data transmission of sensor from bin

sensor_data

Document ID Options JSON

Create Document

	_id	deviceId	deviceType	eventType	format
<input type="checkbox"/>	0198213c192cb...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	0198213c192cb...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	0198213c192cb...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	0198213c192cb...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	1e921f21cbe229...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	1e921f21cbe229...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	26a854e54456b8...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	26a854e54456b8...	ibnproject	SWMSMC	data	json
<input type="checkbox"/>	26a854e54456b8...	ibnproject	SWMSMC	data	json

■ JSON Format of Data Storage

sensor_data > 0198213c192cb2c244cc2433f1802b91

Save Changes Cancel

Upload Attachment Clone Document Delete

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2cd17c510994dfeb774738c409f9b",
4   "topic": "iot-2/type/SWMSMC/5d/ibmproject/evt/data/fmt/json",
5   "payload": {
6     "Warning!!": "244.971left"
7   },
8   "deviceId": "ibmproject",
9   "deviceType": "SWMSMC",
10  "eventType": "data",
11  "format": "json"
12 }
```

Save Changes Cancel

Upload Attachment Clone Document Delete

```
1 {
2   "_id": "28a854e545fa810e6c1d0493396d28",
3   "_rev": "1-3ac288ecad57f039e886999b7e88c723",
4   "topic": "iot-2/type/SWMSMC/1d/ibmproject/evt/data/fmt/json",
5   "payload": {
6     "High Alert!!": "1.991left"
7   },
8   "deviceId": "ibmproject",
9   "deviceType": "SWMSMC",
10  "eventType": "data",
11  "format": "json"
12 }
```