

Project Development Phase

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

TEAM ID: PNT2022TMID39310

TEAM MEMBERS

ROLE	TEAM MEMBERS NAME	ROLL NO
TEAM LEADER	RUBESH .S	(422619104035)
TEAM MEMBER 1	ABIRAMI .S	(422619104002)
TEAM MEMBER 2	HARITHA .S	(422619104016)
TEAM MEMBER 3	TAMIZHSELVAN .D	(422619104044)

Project Development - Delivery Of Sprint-1

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Prerequisites	USN- 1	IBM Cloud Services	10	Medium	S.Rubesh S.Haritha
Sprint-1	Prerequisites	USN- 2	Software	10	Medium	S.Abirami D.Tamizhselvan

Delivery

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022

IBM Cloud Services

Task Assigned:

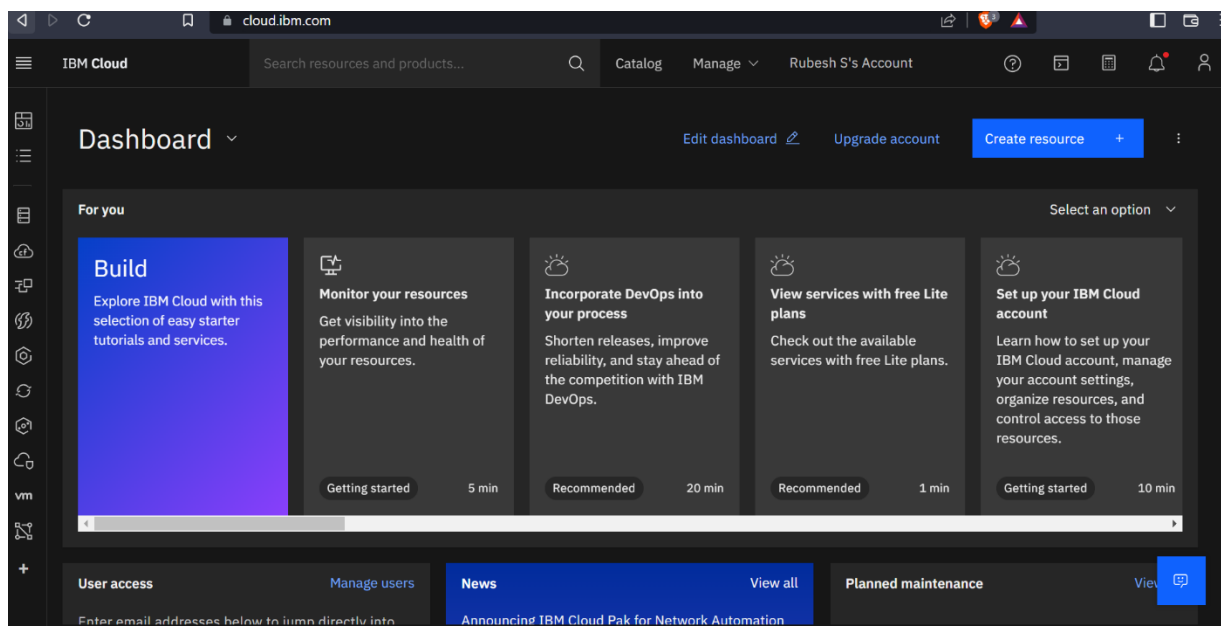
S.Rubesh

S.Haritha

Task Started on:26-10-2022

Task Completion Date:27-10-2022

Progress 1:Created IBM Cloud Account



Progress 2: Learnt about the following Cloud Service

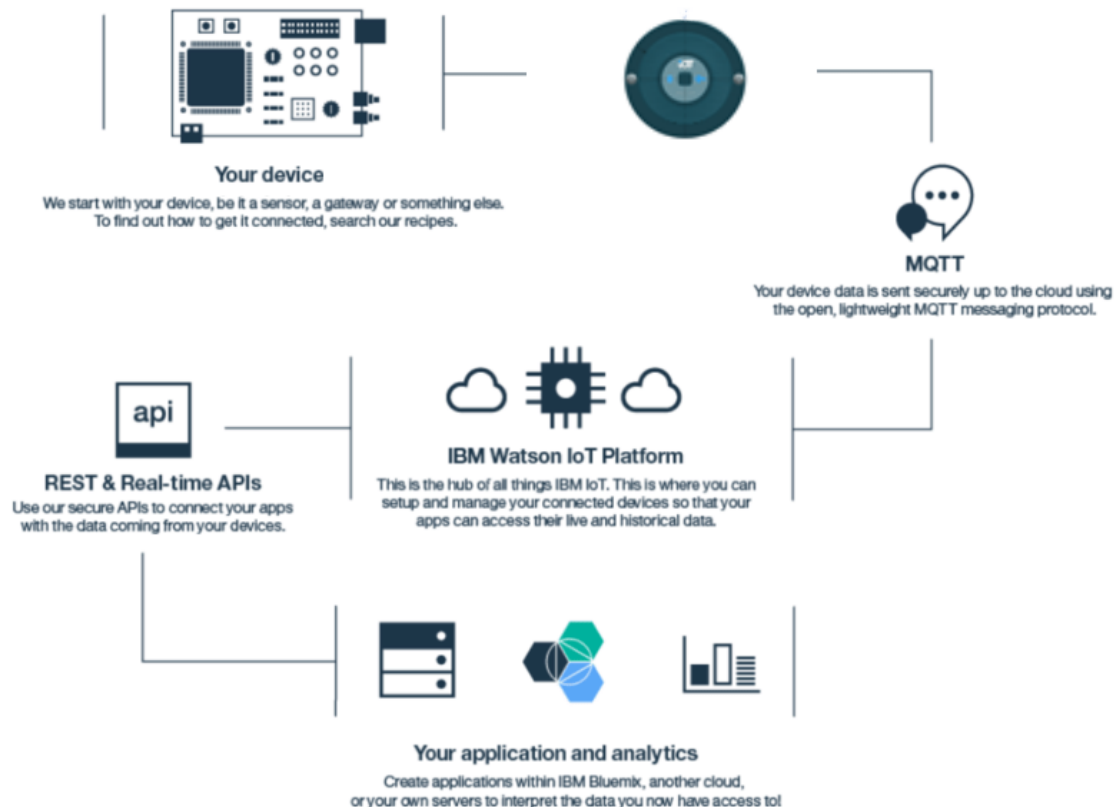
1. IBM Watson IoT platform

2.Node-RED Service

3.Cloudant DB

1. IBM Watson IoT platform:

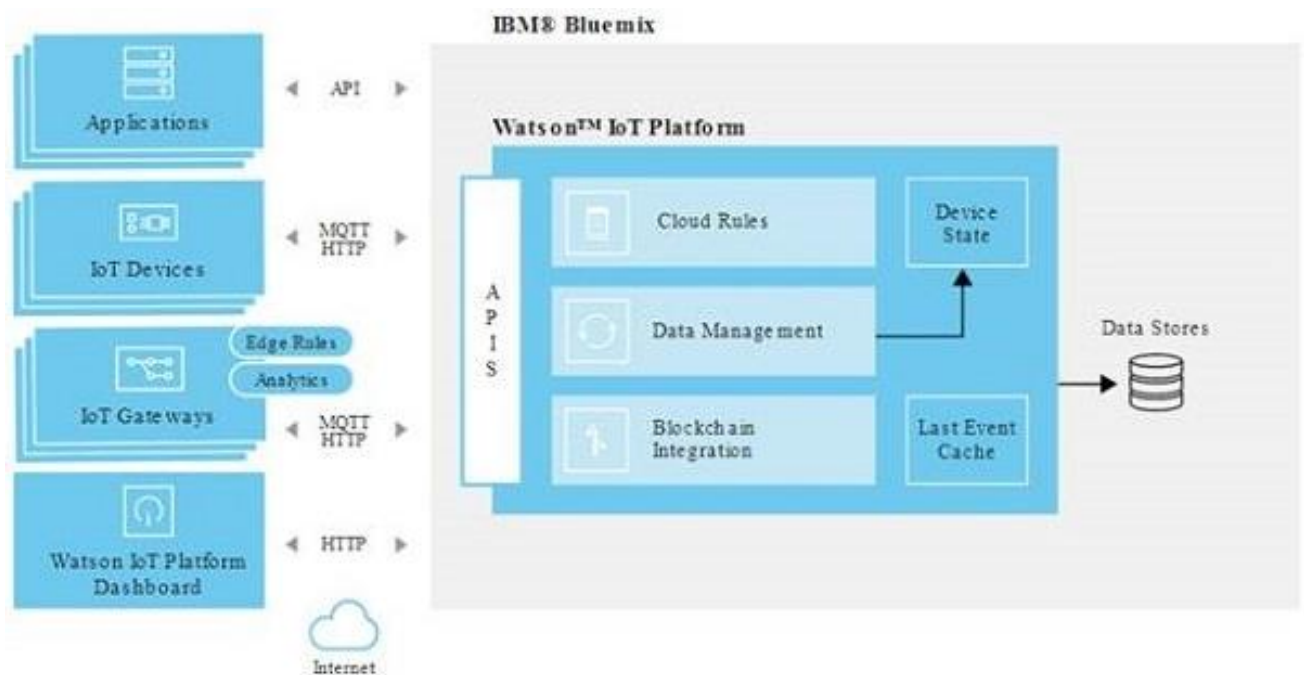
IBM Watson IoT Platform is a managed, cloud-hosted service designed to make it simple to derive value from your Internet of Things devices. STMicroelectronics is an IBM Partner and provides development platforms allowing users to develop applications with direct connection to the IBM Watson IoT platform.



IBM Watson IoT platform

How does an IBM Watson IoT platform works?

By using Watson IoT Platform, you can collect connected device data and perform analytics on real-time data. The IBM Watson IoT Platform is a fully managed, Cloud-hosted service that provides device management capabilities as well as data collection and management in a time series format.



IBM Watson IoT platform working

What are the key features IBM Watson IoT platform?

The IBM Watson IoT Platform is a hub for connecting devices, gateways, and applications for IoT solutions. It supports REST and MQTT protocols for applications, devices, gateways, event processing, and administrative tasks.

Is IBM Watson IoT Platform free?

The Lite service plan provides a free, lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

2.Node-RED Service

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in a single-click.

How do I run Node-RED as a service?

Quick Start

1. Install Node.js

Download the latest 14.x LTS version of Node.js from the official Node.js home page. It will offer you the best version for your system.

2. Install Node-RED

Installing Node-RED as a global module adds the command node-red to your system path.

3. Run Node-RED

Once installed, you are ready to run Node-RED.

3.Cloudant DB

A fully managed, distributed database optimized for heavy workloads and fast-growing web and mobile apps, IBM Cloudant is available as an IBM Cloud® service with a 99.99% SLA. Cloudant elastically scales throughput and storage, and its API and replication protocols are compatible with Apache CouchDB for hybrid or multicloud architectures.

How do I access my Cloudant database?

You can access IBM Cloudant directly by using an HTTP client rather than an IBM Cloudant client library. However, you must handle exchanging and refreshing a time-limited access token by using an IAM API key with the IAM token service. After a token expires, IBM Cloudant returns an HTTP 401 status code.

SOFTWARE

Task Assigned:

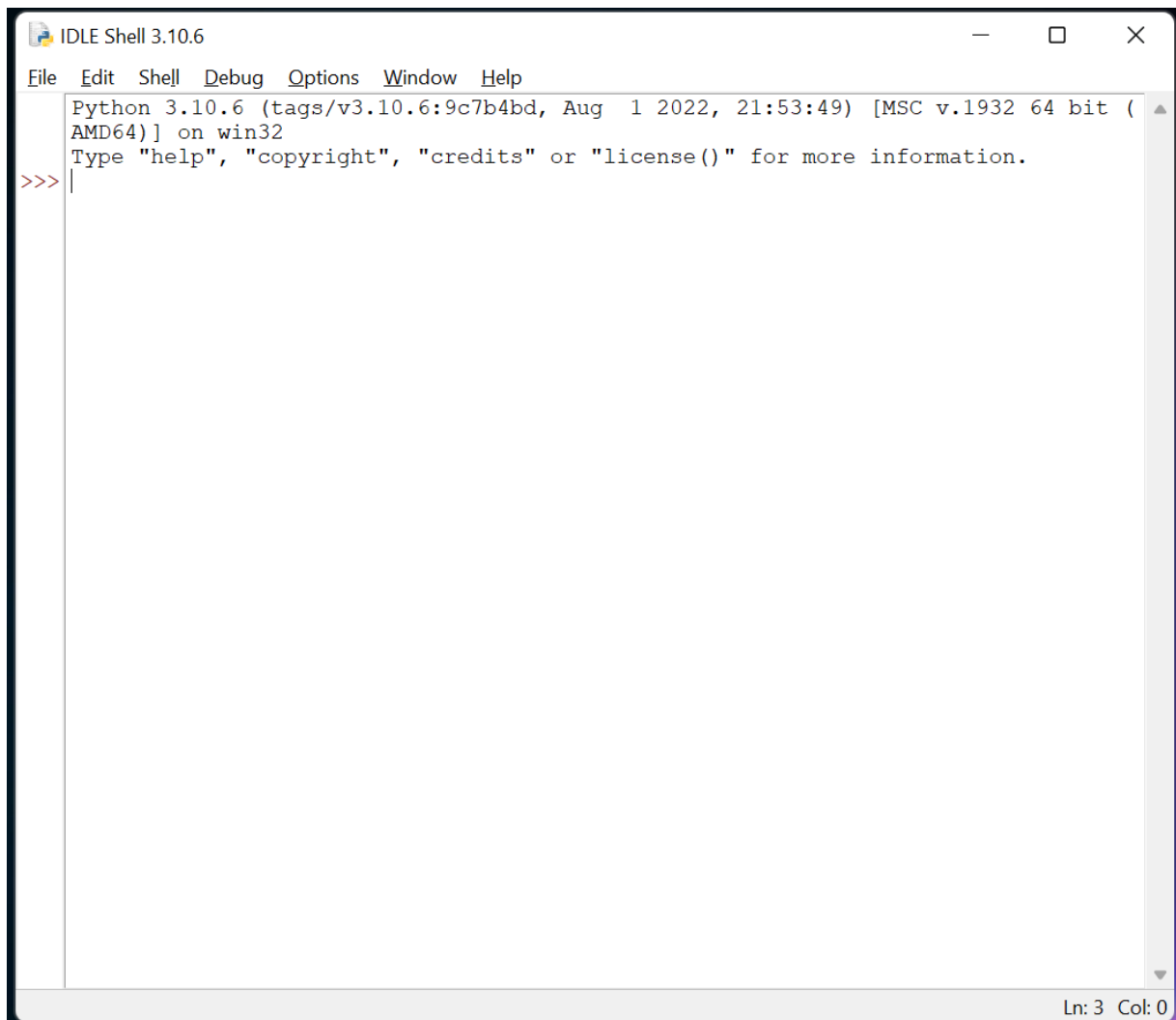
S.Abirami

D.Tamizhselvan

Task Started on: 27-10-2022

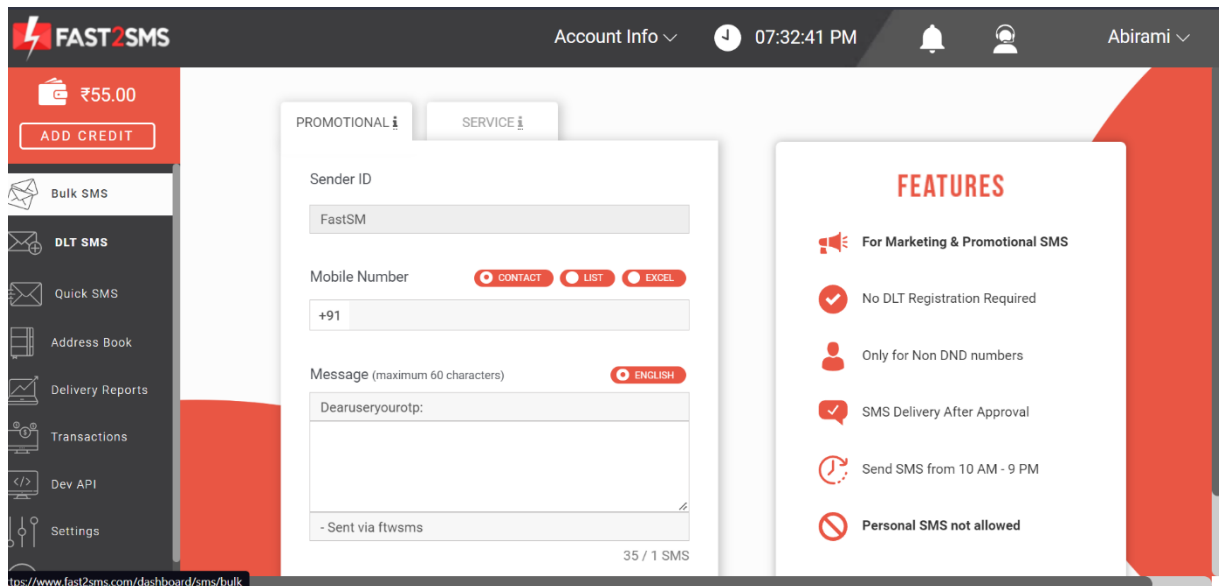
Task Completion date: 28-10-2022

Installed the Python IDE

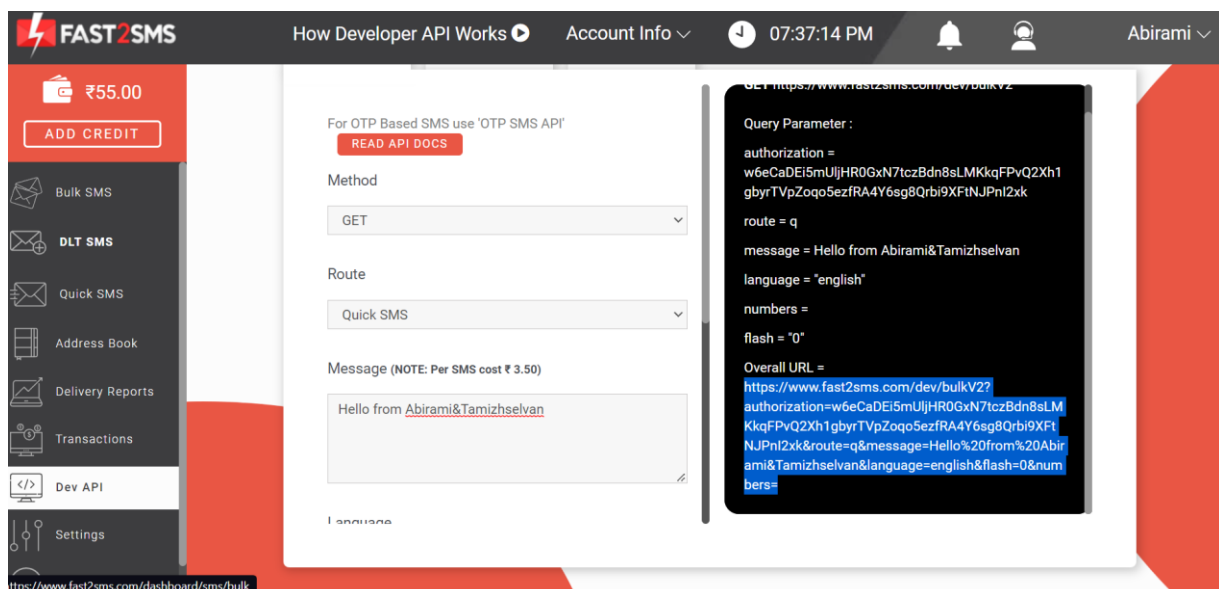


Python 3.10.6

Created the Fast SMS Service for sending the messages and getting the API



Created an account in Fast2SMS



Sending SMS

Sprint burndown chart

[How to read this report](#)

Sprint

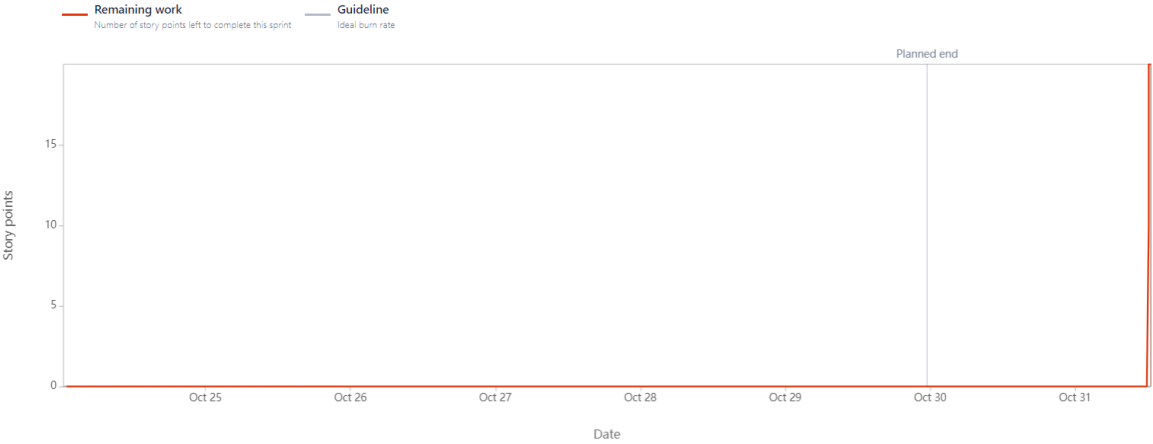
SWMSFMC Sprint 1

Estimation field

Story points



Date - October 24th, 2022 - October 29th, 2022

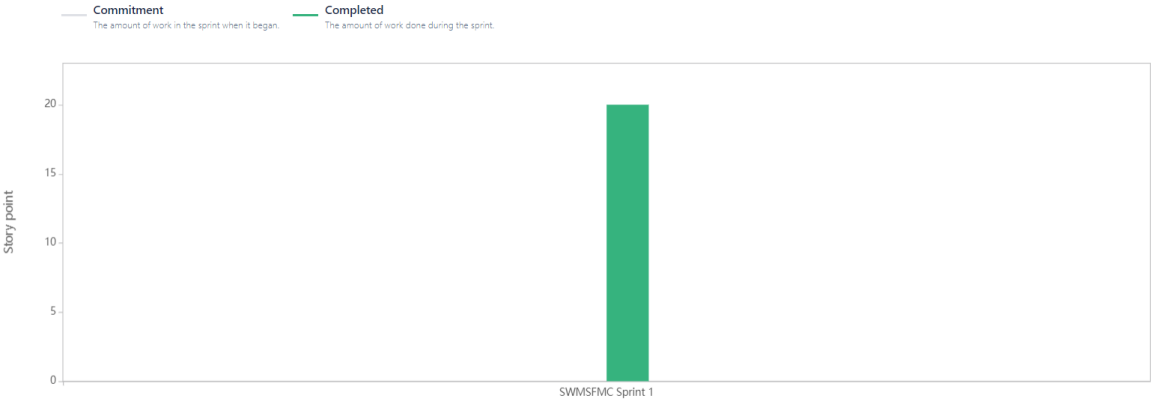


Report: SWMSFMC Sprint 1

*Issue added after sprint start

Velocity report

[How to read this report](#)



Sprint	Commitment	Completed
SWMSFMC Sprint 1	0	20

All sprints

[Complete sprint](#)

Epic ▼ Sprint ▼

GROUP BY None ▼ [Insights](#)

TO DO 8 ISSUES

Create IBM Watson IoT Platform And Device

CREATE AND CONFIGURE IBM CLO...

SWMSFMC-3 7

Create Node-RED Service

CREATE AND CONFIGURE IBM CLO...

SWMSFMC-4 7

Create A Database In Cloudant DB

CREATE AND CONFIGURE IBM CLO...

SWMSFMC-5 6

Develop A Python Script

DEVELOP THE PYTHON SCRIPT

SWMSFMC-6 10

IN PROGRESS

DONE 2 ISSUES

IBM Cloud Services

PREREQUISITES

SWMSFMC-1 10

Software

PREREQUISITES

SWMSFMC-2 10

Roadmap

Give feedback Share Export

Status category ▼

View settings

