

RoostGPT Installer

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RoostGPT CLI Installation Guide - EC2 Linux

Overview

RoostGPT is an AI-powered testing tool. This guide will help you install RoostGPT on your EC2 (RHEL or Ubuntu) instance in just a few minutes.

Pilot Prerequisites

Before installing RoostGPT, ensure your system meets the following requirements:

Requirement	Specification
Operating System	RHEL 9.5 or Ubuntu 22.04
CPU (or vCPUs)	8 or more
RAM	16 GB or more
Instance Type	c5a.2xlarge or better
Root Disk Space	Minimum 100 GB available
Additional Volume	Minimum 150 GB
Mount Point for additional volume	/var/tmp/Roost (with full permissions granted to SSH user)
Network	Internet connection enabled
Permissions	sudo/root access required (SSH user should have sudo permissions)
AWS Key & Secret	Set in environment or in .profile for accessing AWS Services

Requirement	Specification
AWS IAM User Role	Policy: AmazonBedrockFullAccess or Custom Bedrock Policy as defined below
AWS Bedrock Inference Profiles (one or more of these listed profile id)	global.anthropic.claude-sonnet-4-5-20250929-v1:0 global.anthropic.claude-sonnet-4-20250514-v1:0 eu.anthropic.claude-sonnet-4-5-20250929-v1:0 eu.anthropic.claude-sonnet-4-20250514-v1:0 eu.anthropic.claude-3-7-sonnet-20250219-v1:0
RoostGPT License & Installer	Provided by Roost Team
POC 1 - Input Sample	1. Word document or PDF with User Story or System Analysis Document 2. Optional: API Specification that is representative of current features
POC 2 - Input Sample	1. Swagger API Spec

AWS Bedrock Model Access to one or more of the anthropic (cross-region) models is fine.

Custom Bedrock Policy for AWS IAM User

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "BedrockAPIs",
      "Effect": "Allow",
      "Action": [
        "bedrock:Get*",
        "bedrock:List*",
        "bedrock:CallWithBearerToken",
        "bedrock:BatchDeleteEvaluationJob",
        "bedrock:CreateEvaluationJob",
        "bedrock:CreateGuardrail",
        "bedrock:CreateGuardrailVersion",
        "bedrock:CreateInferenceProfile",
        "bedrock:CreateModelCopyJob",
        "bedrock:CreateModelCustomizationJob",
```

```

    "bedrock:CreateModelImportJob",
    "bedrock:CreateModelInvocationJob",
    "bedrock:CreatePromptRouter",
    "bedrock:CreateProvisionedModelThroughput",
    "bedrock>DeleteCustomModel",
    "bedrock>DeleteGuardrail",
    "bedrock:DeleteImportedModel",
    "bedrock:DeleteInferenceProfile",
    "bedrock>DeletePromptRouter",
    "bedrock>DeleteProvisionedModelThroughput",
    "bedrock:StopEvaluationJob",
    "bedrock:StopModelCustomizationJob",
    "bedrock:StopModelInvocationJob",
    "bedrock:TagResource",
    "bedrock:UntagResource",
    "bedrock:UpdateGuardrail",
    "bedrock:UpdateProvisionedModelThroughput",
    "bedrock:ApplyGuardrail",
    "bedrock:InvokeModel",
    "bedrock:InvokeModelWithResponseStream"
  ],
  "Resource": "*"
}
]
}

```

- Configure AWS profile into launched server, either by
 - setting **AWS_ACCESS_KEY_ID** and **AWS_SECRET_ACCESS_KEY**, in \$HOME/.profile
 - Or stage \$HOME/.aws/credentials
- Transfer roostgpt-installer executable into the EC2 instance
- Ensure the below is installed on the instance to support troubleshooting.
 - Python3 (version 3.3 or later)
 - AWS CLI (version aws-cli/2.31.29 or later)

Details of Roost Installer

Bundled artifact in the Roost installer

Name	Purpose / Description	Location
roostgpt-linux	CLI executable for roostGPT	Bundled binary Reference: v1.1.18/roostgpt-linux
roostenc-linux	Decrypt/Encrypt binary for troubleshooting RoostGPT behaviour	Bundled in the roostgpt-installer (not available publicly)
license/license.ral	Roost License File	Bundled in the roostgpt-installer (not available publicly)
workspace/postman-api-test	Sample swagger API spec file and env to generate postman collection with tests	API Spec: weather,yaml Reference: https://openweathermap.org/api
workspace/functional-test	Sample Functional Test project with env	Sample word document written by Roost Team - (not publicly available)

Installation Steps

Mount EBS Volume (optional, check if it is done already)

1. Verify that /var/tmp/Roost does not exist already
2. Check the read/write/execute permissions on the mount point
3. Extract the volume ID
4. Mount the disk, volume as Roost folder
5. Add fstab entry for handling m/c reboot

```
# Verify if the Roost folder exists
df -h /var/tmp/Roost

# if not create directory
sudo mkdir $ROOST_DIR
sudo chown `id -u`:`id -g` ${ROOST_DIR}

# Check if volume and disk exists
# Typically this is the
export DISK="nvme0n1"
export EBS_VOLUME="/dev/nvme0n1"
blkid | grep "${DISK}:"
```

```
lsblk | grep -w "${EBS_VOLUME}"
```

```
# Run below snippet to mount disk and add entry to fstab file
```

```
lsblk -f | grep -w "${DISK}" | grep "ext4"
```

```
if [ $? -ne 0 ]; then
```

```
    sudo mkfs -t ext4 ${EBS_VOLUME}
```

```
fi
```

```
if [ ! -d "${ROOST_DIR}" ]; then
```

```
    sudo mkdir ${ROOST_DIR}
```

```
fi
```

```
sudo mount ${EBS_VOLUME} ${ROOST_DIR}
```

```
mount | grep "$EBS_VOLUME"
```

```
if [ $? -eq 0 ]; then
```

```
    sudo chown `id -u`:`id -g` ${ROOST_DIR}
```

```
grep -v "${ROOST_DIR}" /etc/fstab | sudo tee /etc/fstab.noroost
```

```
# Plan for reboot
```

```
epoch=$(date +%s)
```

```
sudo cp /etc/fstab /etc/fstab.orig.${epoch}
```

```
which blkid
```

```
if [ $? -eq 0 ]; then
```

```
    uuid=$(blkid | grep "${EBS_VOLUME}:" | awk '{print $2}'|sed -e 's//g')
```

```
fi
```

```
if [ -z $uuid ]; then
```

```
    id=$(lsblk -f -o NAME,UUID | grep -w "${DISK}" | awk '{print $2}'|sed -e 's//g')
```

```
    uuid="UUID=${id}"
```

```
fi
```

```
if [ ! -z $uuid ]; then
```

```
    echo "${uuid}  ${ROOST_DIR}  ext4  defaults  0  2" | sudo tee -a /etc/fstab.noroost
```

```
    sudo cp /etc/fstab.noroost /etc/fstab
```

```
    sudo umount ${ROOST_DIR}
```

```
    sudo mount -a
```

```
    if [ $? -eq 0 ]; then
```

```
        mount | grep "$EBS_VOLUME"
```

```
        if [ $? -ne 0 ]; then
```

```
            sudo chown `id -u`:`id -g` ${ROOST_DIR}
```

```
        fi
```

```
    fi
```

```
fi
```

Copy the installer and license file

1. Download Installer from Shared Google Drive <LOCATION SENT OVER EMAIL>
 - You have to download the RoostGPT installer (Roost License file will be bundled) from a shared Google Drive.
2. Transfer Installer using scp
3. Make Installer executable

```
# From your local machine, copy installer to Ubuntu instance
```

```
scp roostgpt-installer.sh ubuntu@<your-instance-ip>:~/
```

```
# Then SSH into your instance
```

```
ssh ubuntu@<your-instance-ip>
```

```
# Add execute permissions to installer
```

```
chmod +x roostgpt-installer.sh
```

```
# Execute Roost Installer
```

```
sudo ./roostgpt-installer.sh
```

Installation interface:

```
┌───────────────────────────────────────────────────────────────────────────────────┐
│                                                                                   │
│                                                                                   │
│           RoostGPT Installer           │                                     │
│                                                                                   │
│                                                                                   │
└───────────────────────────────────────────────────────────────────────────────────┘
```

```
[→] Checking system requirements...
```

```
[✓] System requirements met
```

```
Continue with installation? [Y/n]
```

Press **Y** and **Enter** to continue.

The installer will:

- Extract files
- Install RoostGPT binary

Configuring AWS Credentials

Adding AWS Credentials

```
# SSH into your instance
ssh ubuntu@<your-instance-ip>

# Edit $HOME/.bash_profile
vim $HOME/.bash_profile

# Add export AWS keys to your $HOME/.profile and save the file
export AWS_ACCESS_KEY_ID=xxx
export AWS_SECRET_ACCESS_KEY=xxx
export AWS_DEFAULT_REGION=eu-west-1
export AWS_BEDROCK_MODEL_TYPE=cross-region # Supports [foundation, cross-region]
export AWS_BEDROCK_MODEL=global.anthropic.claude-sonnet-4-20250514-v1:0

# Source the file .profile to make the AWS creds available in the same session
source $HOME/.bash_profile
```

Using RoostGPT

Running RoostGPT

You can now access RoostGPT from anywhere on your system, using the command `roostgpt`

Quick Start Example

```
# 1. SSH into your Ubuntu instance
ssh ubuntu@<your-instance-ip>

# 2. Navigate to workspace
cd ~/workspace/functional-test

# 3. Run RoostGPT
./run.sh
```

```
# OR you can run using the full command
roostgpt test create -c functional-test.env
```

Viewing Roost Test Results

```
# Roostgpt test results can be viewed using the below command
roostgpt test result

# A sample Postman Collection with tests from a swagger spec will be generated under a folder
postman_collections/
|_ modified_postman_weather.json
|_ postman-api-test/
|_   Realtime_API.json
|_   Forecast_API.json
|_   Future_API.json
|_   History_API.json
|_   Marine_Weather_API.json
|_   Search_Autocomplete_API.json
|_   IP_Lookup_API.json
|_   Time_Zone_API.json
|_   Astronomy_API.json
```

Here's a complete workflow from login to running RoostGPT:

Configure a new test

Each project folder in your workspace contains a `<UNIQUE-TEST-NAME>.env` file for configuration. You can copy this env and modify the contents for a new test run. Or create a new test env file.

Execute roostgpt with this new env.

```
# Create a new Roost Test Configuration File
vim new_test.env

#####

# Modify the below attributes
```

```

TEST_NAME=ANY_UNIQUE_NAME # Any unique_name to represent the test configuration
TEST_TYPE=functional      # Default is unit; Supports [unit, functional, api-spec-test, integration]
AI_TYPE=bedrock_ai       # Default is openai; Supports [openai, azure_open_ai, claude_ai, dbrx, bedrock_ai,
gemini]

ROOST_USER_INPUT_TYPE=file      # Roost User input Type for test generation; Supports [text, file]
ROOST_USER_INPUT_FILE=USER_FILE_PATH # The user input file-path will be used to generate tests

# GIT env vars
GIT_TYPE=local             # Default is github; Supports [github, gitlab, azure, bitbucket, local]
LOCAL_PROJECT_PATH=PATH_TO_WORKSPACE_FOLDER # Required if GIT_TYPE is local, Path to your
workspace.

# AWS Bedrock env vars
AWS_ACCESS_KEY_ID=        # Required: If not defined here, it will be picked from environment
AWS_SECRET_ACCESS_KEY=   # Required: If not defined here, it will be picked from environment
AWS_SESSION_TOKEN=       # Optional; AWS Session token.
AWS_DEFAULT_REGION=eu-west-1 # Required if AI_TYPE=aws_bedrock.
AWS_BEDROCK_MODEL_TYPE=cross-region # Required if AI_TYPE=aws_bedrock.
AWS_BEDROCK_MODEL=global.anthropic.claude-sonnet-4-20250514-v1:0 # Required if
AI_TYPE=aws_bedrock.

# Api Spec env vars
API_SPEC_TYPE=swagger      # Optional; Supports [swagger]
API_SPEC_SOURCE=file       # Optional; Supports [file, gitpath, url]
API_SPEC_FILE_PATH="$HOME/FILE" # Optional; path of the source file.
API_SPEC_URL=             # Optional; URL of the source file, if source is url

#####

# Run the new test configuration
roostgpt test -c new_test.env

```

Troubleshooting

Installation Issues

Problem: Permission denied when running installer

```
# Solution: Make sure you're using sudo
sudo ./roostgpt-installer.sh
```

Problem: Command not found: roostgpt

```
# Solution: Verify installation completed successfully
which roostgpt
# Should output: /usr/local/bin/roostgpt

# Check executable permissions on roostgpt and grant if missing
chmod +x $(which roostgpt)

# If not found, re-run the installer
sudo ./roostgpt-installer.sh
```

Problem: Insufficient disk space

```
# Solution: Check available space
df -h $HOME /var/tmp/Roost

# Free up space or use an instance with more storage
```

Runtime Issues

Problem: Can't find workspace

```
# Solution: Workspace is in your home directory
cd ~/workspace
ls -la
```

Problem: Configuration not loading

```
# Solution: Ensure .env files exist and are readable
find ~/workspace/ -name '*.env' -ls
find ~/workspace/ -name '*.env' -exec chmod 644 {} \;
```

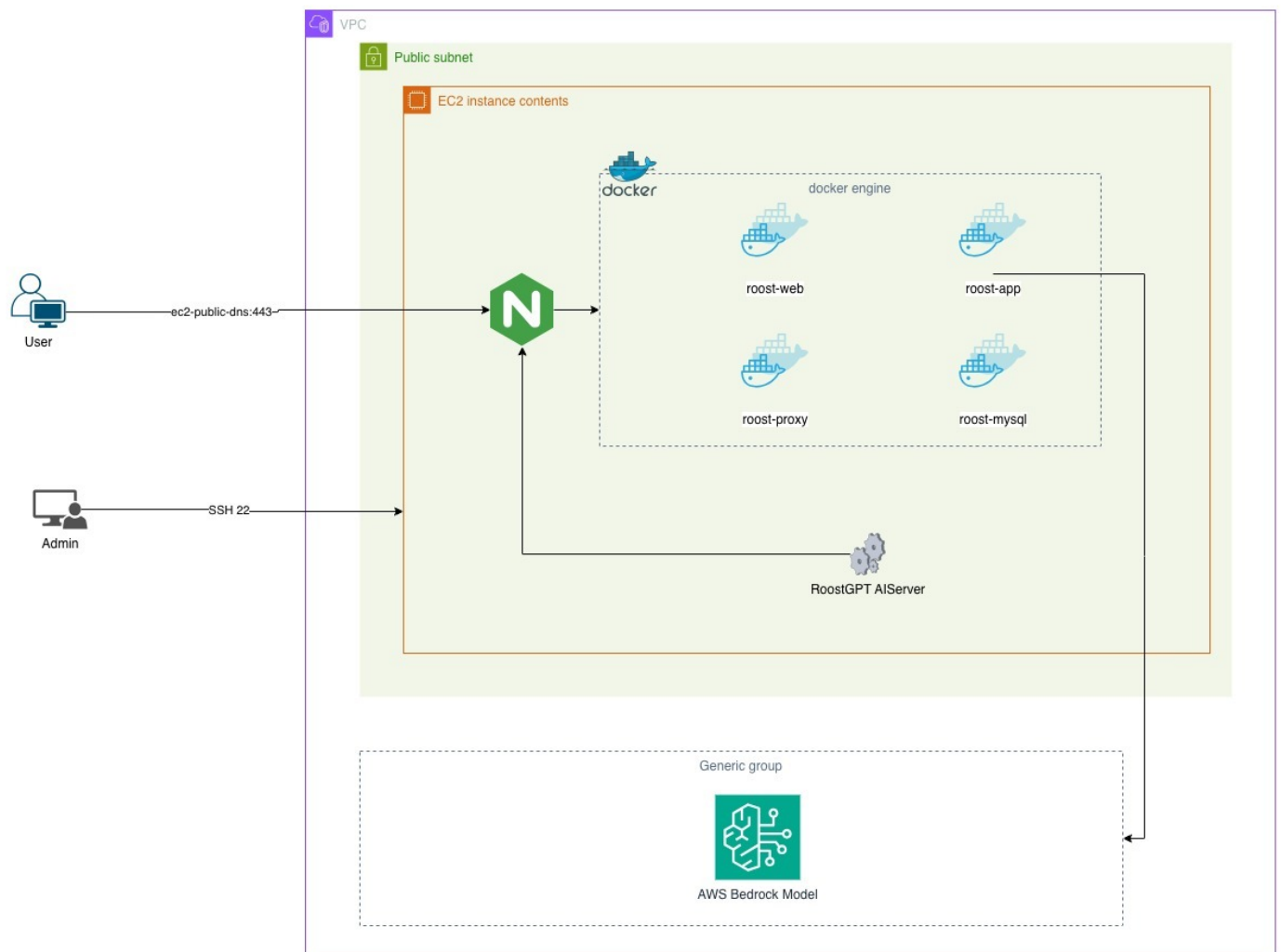
Verify AWS Bedrock Access

```
aws bedrock list-inference-profiles --region eu-west-1
```

EC2 Requirements for Docker based Roost

Roost Pilot Setup (Single EC2 Instance)

Architecture of RoostGPT stack running in single instance:



Using Terraform:

To accomplish POC from single EC2 instance where RoostGPT can be setup, you can run below terraform scripts:

Link: <https://github.com/roost-io/install/tree/demo/terraform/aws/bedrockdemo>

Prerequisites:

- VPC ID where instance would be created
- Public Subnet ID.
- Configure AWS profile into launched server, either by setting `AWS_ACCESS_KEY` and `AWS_SECRET_KEY_ID`, in `$/HOME/.profile` or staging `$/HOME/.aws/credentials`
- Allowed SSH CIDR range (Could be individual IP, company network etc)

Instance Details

Whether using terraform or provisioning EC2 externally, Roost expects following configurations

- Region (eu-west-1 or any)
- Instance_size: c5a.2xlarge (16 GB Memory, 8 vCPUs) or bigger
- Instance root disk size: Minimum 100 GB
- Additional EBS disk size: Minimum 150 GB
- Image: Ubuntu 22.04 HVM base, SSD Volume Type
- Network Configuration:
 - Accepts CIDR range to allow SSH (port 22)
 - Allow SSH from 4.247.149.66/32 and 40.112.174.40/32 (Roost Support)
 - HTTPS traffic is enabled on EC2 at port 443
- Python and AWS CLI are already installed.
- If provisioned using terraform, a new ssh key-pair is created and kept under `terraform-root-dir/data` dir. (SSH keypair to be shared with Roost Support team)
- Default SSH user is Ubuntu which must have sudo permission
- To access RoostGPT over HTTPS (optional), we will need -
 - Domain certs
 - DNS Name.

Packages that will be installed on EC2 Linux (by roostGPT installer):

1. curl
2. jq
3. pkill
4. shasum
5. gzip
6. docker-ce
7. docker-cli

8. docker-compose
9. nginx
10. nginx-extras
11. Entry into crontab
12. Script into init.d

Configurations to run RoostGPT:

- SSH user should have sudo permissions
- AWS IAM User should have **AmazonBedrockFullAccess** or the below permission -

```
{
  Version = "2012-10-17"
  Statement = [
    {
      Effect = "Allow"
      Action = [
        "bedrock:InvokeModel",
        "bedrock:InvokeModelWithResponseStream",
        "bedrock:ListFoundationModels",
        "bedrock:GetFoundationModel"
      ]
      Resource = "*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "bedrock:GetInferenceProfile",
        "bedrock:ListInferenceProfiles",
      ],
      "Resource": [
        "arn:aws:bedrock:*:*:inference-profile/*",
        "arn:aws:bedrock:*:*:application-inference-profile/*"
      ]
    }
  ]
}
```

- Configure AWS profile into launched server, either by
 - setting `AWS_ACCESS_KEY_ID` and `AWS_SECRET_ACCESS_KEY`, in `$HOME/.profile`
 - Or stage `$HOME/.aws/credentials`
- Transfer roost license file (.ral) into EC2 instance.

- Ensure python3 is installed on the instance

Why does RoostGPT need to run with a privileged user?

- RoostGPT installs docker and nginx like services on the EC2
- RoostGPT docker containers run as root.
- RoostGPT adds crontab entry for the current user and also adds an init.d script to handle Roost processes on a m/c reboot.

Roost on Windows

Steps to install

Use the Windows installer provided by Roost team.

Upon a successful installation, you will see the files copied on your system

File Name	Type	Location
roostgpt-win.exe	Windows executable	C:\Program Files (x86)\RoostGPT [Default]
RoostJavaASTParser.jar	Java archive	\$USER_PROFILE\var\tmp\Roost\bin
RoostUITestGenerator-win.exe	Windows executable	\$USER_PROFILE\var\tmp\Roost\bin
license.ral	Encrypted data file	\$USER_PROFILE/.roost
roost-workspace (folder)	RoostGPT Pre-canned Samples	\$USERPROFILE/roost-workspace

Pre-requisites to run Roost Generated Tests

To run the Roost generated tests successfully on the local system, you will need pre-requisites installed on the system

Pre-requisites for Java Unit Test:

- JDK/JRE
- Maven/Gradle

Pre-requisites for API Spec Test:

- Postman/Newman

Pre-requisites for UI Test:

- Playwright

Configure AWS Credentials

```
# Add AWS keys to your $HOME/.profile and save the file OR
setx AWS_ACCESS_KEY_ID "xxx"
setx AWS_SECRET_ACCESS_KEY "xxx"
setx AWS_DEFAULT_REGION "eu-west-1"
setx AWS_BEDROCK_MODEL_TYPE "cross-region" # Supports [foundation, cross-region]
setx AWS_BEDROCK_MODEL "global.anthropic.claude-sonnet-4-20250514-v1:0"
```

Roost Samples

Structure - Roost Sample Workspace

The workspace contains example projects to help you get started:

```
~/workspace/
├─ functional-test/
│   └─ functional-test.env          # Configuration for POC 1
│   └─ prepaid-card-requirement.docx # Sample user requirements doc for POC 1
│   └─ prepaid-card-swagger.yaml    # Required yaml for the POC 1
├─ postman-api-test/
│   └─ postman-api-test.env         # Configuration for POC 2
│   └─ prepaid-card-swagger.yaml    # Sample Swagger Spec for POC 2
│   └─ weather.yaml                # Sample Swagger Spec for POC 2
```

Using RoostGPT

Running RoostGPT

You can now access RoostGPT from anywhere on your system, using the command `roostgpt`

Quick Start Example

```
# 1. Navigate to workspace
cd $env:USERPROFILE\roost-workspace`

# **Ensure the env is updated with latest/required creds.**
```

```
# you can run using the full command
**run the below the command to generate the functional-test.**
`roostgpt.exe test create -c .\functional-test\functional-test.env`

**run the below the command to generate the Postman-api-test.**
`roostgpt.exe test create -c .\postman-api-test\postman-api-test.env`
```

Viewing Roost Test Results

```
# Roostgpt test results can be viewed using the below command
roostgpt test result

# A sample Postman Collection with tests from a swagger spec will be generated under a folder
postman_collections\
  |_ roost-postman\
    |_ prepaid-card-swagger\
      |_ roost_postman_prepaid-card-swagger_<epoch>
        |_ datasets\
          |_ User_login.json
```

After running the test result command successfully.

Below is the example of Functional test.

```
Loading result dashboard...
```

```
┌────────── Summary ─────────┐
|                               |
| Test Name: functional-test   |
| Test Type: FUNCTIONAL       |
| Status: COMPLETED           |
|                               |
```

Git Details

Git Information	Value
Git Type	LOCAL
Project Path	.
Branch	roost-1763108488
Repo Path	.

AI Usage Statistics

AI Usage	Value
AI Type	bedrock_ai
Model	global.anthropic.claude-sonnet-4-20250514-v1:0
API Calls	4
Prompt Tokens	35,698
Completion Tokens	21,596

Generated Files

roost_test_1763108488

File Type / Method	Path
Gherkin Feature	functional_tests/roost_test_1763108488/roost_test_1763108488.feature
Functional Test	functional_tests/roost_test_1763108488/roost_test_1763108488.json
API Specification	functional_tests/roost_test_1763108488/prepaid-card-swagger_enhance.yaml
CSV Report	functional_tests/roost_test_1763108488/roost_test_1763108488.csv
Excel Report	functional_tests/roost_test_1763108488/roost_test_1763108488.xlsx

Configuration

Configuration	Value
User Input File	prepaid-card-requirement.docx
Create API Spec	true

```
|-----|
| Create Excel      | true                               |
|-----|
|-----|
| API Spec Type    | swagger                            |
|-----|
|-----|
| API Spec Source  | file                               |
|-----|
|-----|
| API Spec File Path | prepaid-card-swagger.yaml        |
|-----|
|-----|

[14/11/2025, 1:57:14 PM] - [INFO] -
=====
=====
```

After running the Postman test result command successfully.

Below is the example of Postman-api test.

```
Loading result dashboard...

┌────────── Summary ─────────┐
|                               |
| Test Name: postman-api-test  |
| Test Type: API-SPEC-TEST    |
| Status: COMPLETED          |
|                               |
└──────────────────────────┘

Git Details
┌──────────┐
└──────────┘
| Git Information | Value |
```

Git Type	LOCAL
Project Path	.
Branch	roost-1763116002
Repo Path	.

AI Usage Statistics

AI Usage	Value
AI Type	bedrock_ai
Model	global.anthropic.claude-sonnet-4-20250514-v1:0
API Calls	6
Prompt Tokens	4,983
Completion Tokens	2,661

Generated Files

File Type	Path
Postman Collection	postman_collections\roost-postman\prepaid-card-swagger\roost_postman_prepaid-card-swagger_1763116...

Endpoints from: postman-api-test\prepaid-card-swagger.yaml

Endpoint (Method)	Test Data
✓ Register a new user [POST]	postman_collections\roost-postman\prepaid-card-swagger\datasets\Register_a_new_user.json
✓ User login [POST]	postman_collections\roost-postman\prepaid-card-swagger\datasets\User_login.json
✓ Submit KYC documents [POST]	postman_collections\roost-postman\prepaid-card-swagger\datasets\Submit_KYC_documents.json
✓ Issue a new card [POST]	postman_collections\roost-postman\prepaid-card-swagger\datasets\Issue_a_new_card.json
✓ Load funds onto a card [POST]	postman_collections\roost-postman\prepaid-card-swagger\datasets\Load_funds_onto_a_card.json
✓ Get card transaction history [GET]	postman_collections\roost-postman\prepaid-card-swagger\datasets\Get_card_transaction_history.json

Configuration

Configuration	Value
---------------	-------

Test Type	api-spec-test
Framework	postman
API Spec Type	swagger
API Spec Source	file
HTTP Verbs	get,post,put,patch,delete
Endpoint Regex	.*

[14/11/2025, 3:58:12 PM] - [INFO] -

=====
=====