

# U\_NEXT TRAINING

## CASE STUDY

### 1. VM

This screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Instance details' step. The page is titled 'Create a virtual machine' and includes a search bar and navigation links. The main form contains the following fields:

- Subscription:** RDBI
- Resource group:** RDBI
- Virtual machine name:** gayathrvmcasestudy
- Region:** (US) West US 2
- Availability options:** Availability zone
- Zone options:** Self-selected zone (Choose up to 3 availability zones, one VM per zone)

On the right side, the 'Estimated monthly cost' is displayed as ₹4,017.30 / month. At the bottom, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

This screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Disks' step. The page is titled 'Create a virtual machine' and includes a search bar and navigation links. The main form contains the following fields:

- Security type:** Standard
- Image:** Windows 10 Pro, version 22H2 - x64 Gen2
- VM architecture:** x64 (Arm64 is not supported with the selected image)
- Run with Azure Spot discount:** ☐
- Size:** Standard\_B2s - 2 vcpus, 4 GiB memory (₹2,526.46/month)

On the right side, the 'Estimated monthly cost' is displayed as ₹4,017.30 / month. At the bottom, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

shuser81@ravinsofttech...  
RAVINSOFTTECH (RAVINSOFTTE...

Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Administrator account

Username \*

Password \*

Confirm password \*

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \* ☐ None ☒ Allow selected ports

Estimated monthly cost

₹4,017.30 / month

[View cost details](#)

< Previous

Next : Disks >

Review + create

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

shuser81@ravinsofttech...  
RAVINSOFTTECH (RAVINSOFTTE...

Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \* ☐ None ☒ Allow selected ports

Select inbound ports \*

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Estimated monthly cost

₹4,017.30 / month

[View cost details](#)

Licensing

< Previous

Next : Disks >

Review + create

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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RAVINSOFTTECH (RAVINSOFTTE...

Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

[Learn more about enabling this feature](#)

OS disk

OS disk size Image default (127 GiB)

OS disk type Standard HDD (locally-redundant storage)  
The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Delete with VM ☒

Key management Platform-managed key

Enable Ultra Disk compatibility ☐

Estimated monthly cost

₹3,016.31 / month

[View cost details](#)

< Previous

Next : Networking >

Review + create

[Give feedback](#)

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

shuser81@ravinsofttech...  
RAVINSOFTTECH (RAVINSOFTTE...

Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

basics

DISKS

networking

management

monitoring

advanced

tags

review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

[Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network (new) gayathrivnet  
[Create new](#)

Subnet (new) default (10.3.0.0/24)

Public IP (new) gayathrivmcasestudy-ip  
[Create new](#)

NIC network security group ☐ None

Estimated monthly cost

₹3,985.52 / month

[View cost details](#)

< Previous

Next : Management >

Review + create

[Give feedback](#)

Microsoft Azure portal interface showing the "Create a virtual machine" wizard. The page is titled "Create a virtual machine" and includes a search bar, navigation tabs (Basics, Disks, Networking, Management, Monitoring, Advanced, Tags, Review + create), and a "Validation passed" status. The "Review + create" tab is active, displaying the "Price" section with a "1 X Standard B2s" VM size and a "3.4609 INR/hr" rate. The "Estimated monthly cost" is shown as ₹3,985.52 / month. The "TERMS" section includes a checkbox for "I agree to the legal terms and privacy statement(s)". The "Create" button is visible at the bottom right.

Microsoft Azure portal interface showing the "CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906092424" deployment overview. The page is titled "Overview" and includes a search bar, navigation tabs (Overview, Inputs, Outputs, Template), and a "Your deployment is complete" status. The "Deployment details" section shows the deployment name, subscription (RDBI), and resource group (RDBI). The "Next steps" section includes links for "Setup auto-shutdown", "Monitor VM health, performance and network dependencies", and "Run a script inside the virtual machine". The "Cost Management" section provides information on budget and cost alerts. The "Microsoft Defender for Cloud" section offers security recommendations. The "Free Microsoft tutorials" section provides links to learn more.

### ^ Essentials

Resource group ([move](#))  
[RDBI](#)

Status  
Running

Location  
West US 2 (Zone 1)

Subscription ([move](#))  
[RDBI](#)

Subscription ID  
b6bc3592-0767-4ed1-b34d-24eb40cb6add

Availability zone  
1

Operating system  
Windows

Size  
Standard B2s (2 vcpus, 4 GiB memory)

Public IP address  
[20.120.154.59](#)

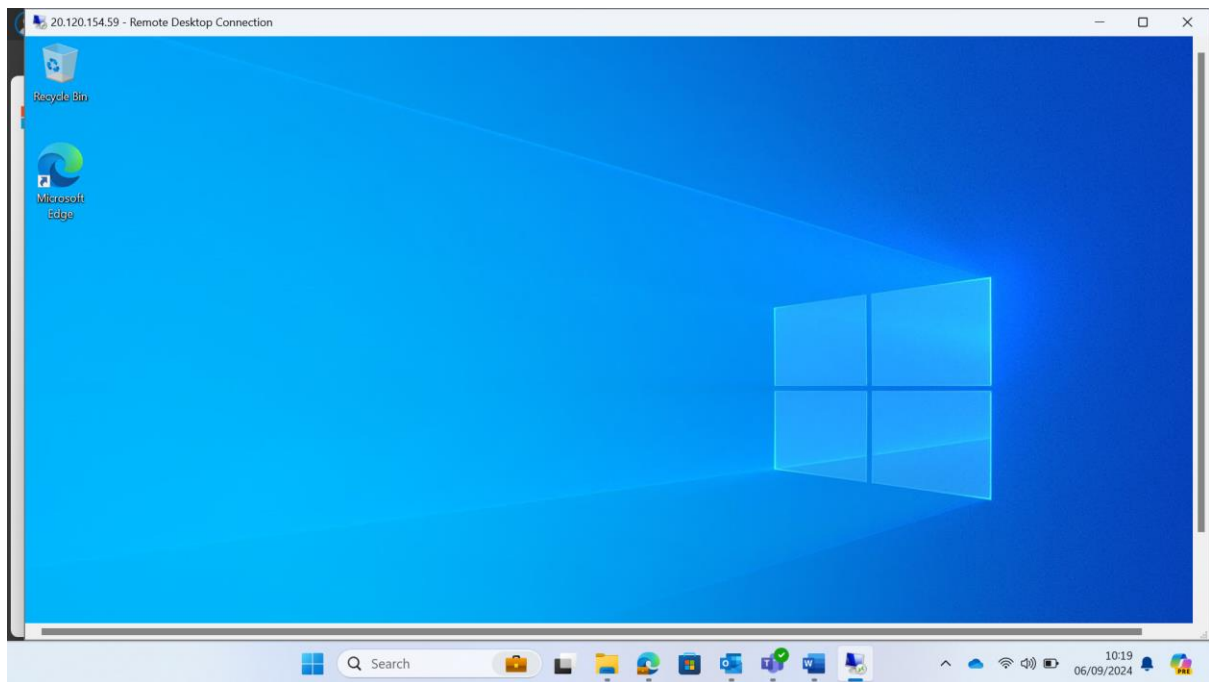
Virtual network/subnet  
[gayathrivnet/default](#)

DNS name  
[Not configured](#)

Health state  
-

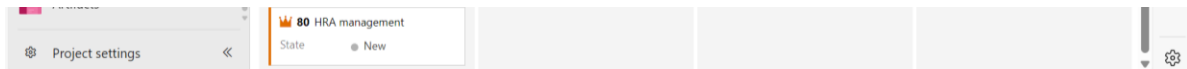
Time created  
6/9/2024, 4:38 am UTC

IP address of the VM: 20.120.154.59

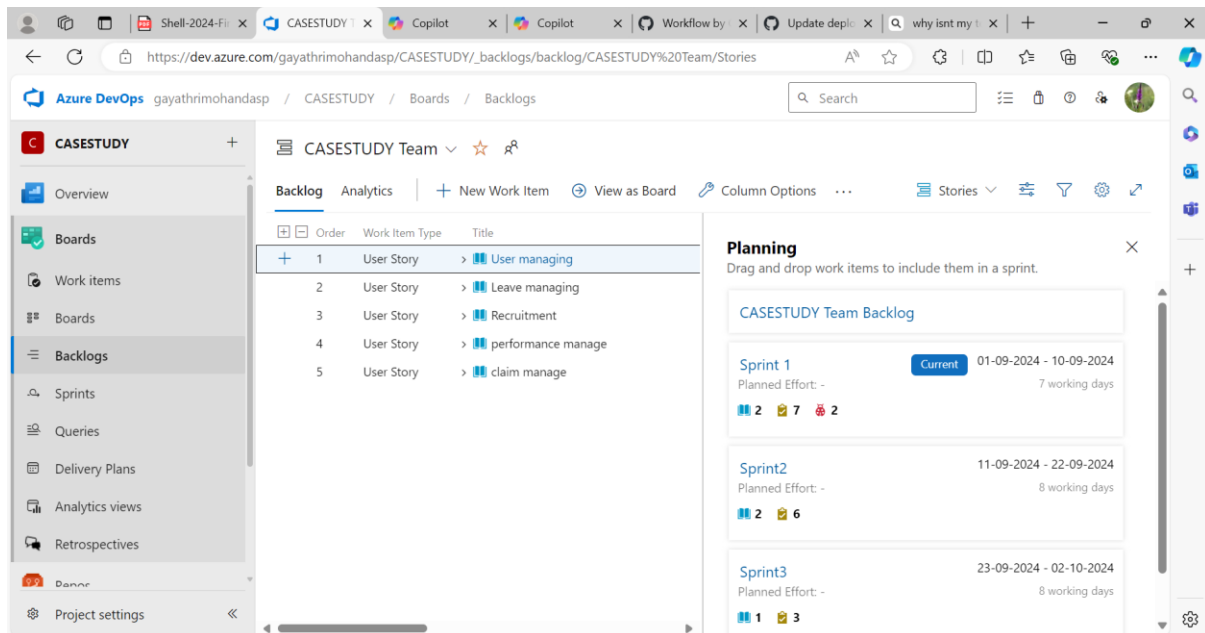


## 2. AGILE FRAMEWORK

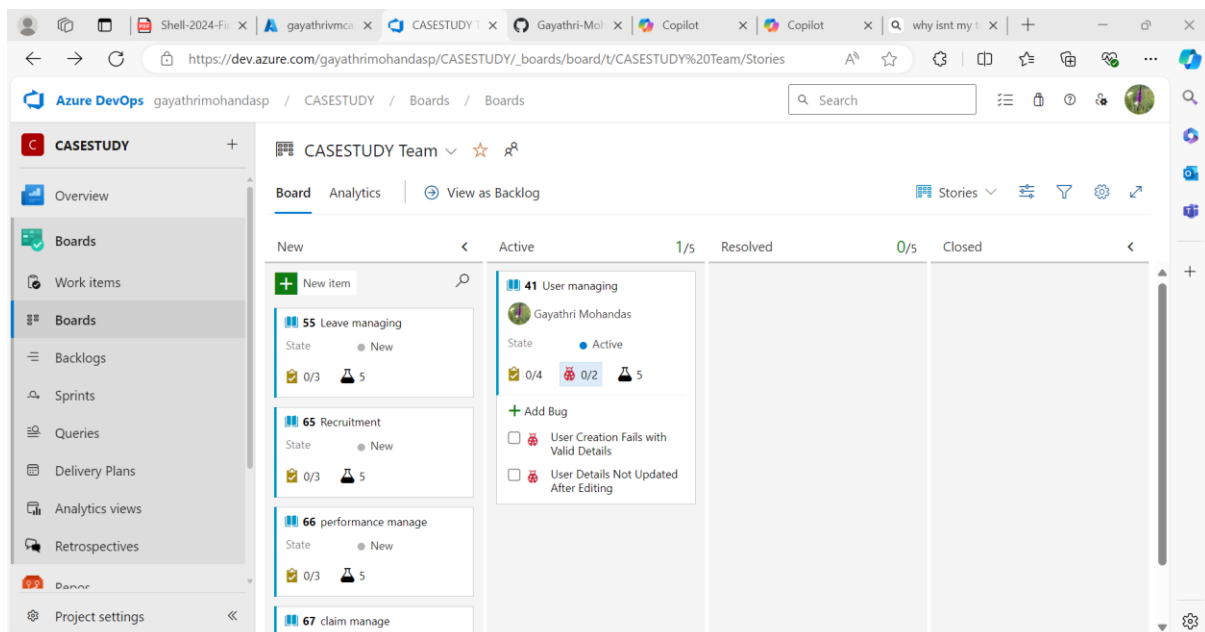
Epic –



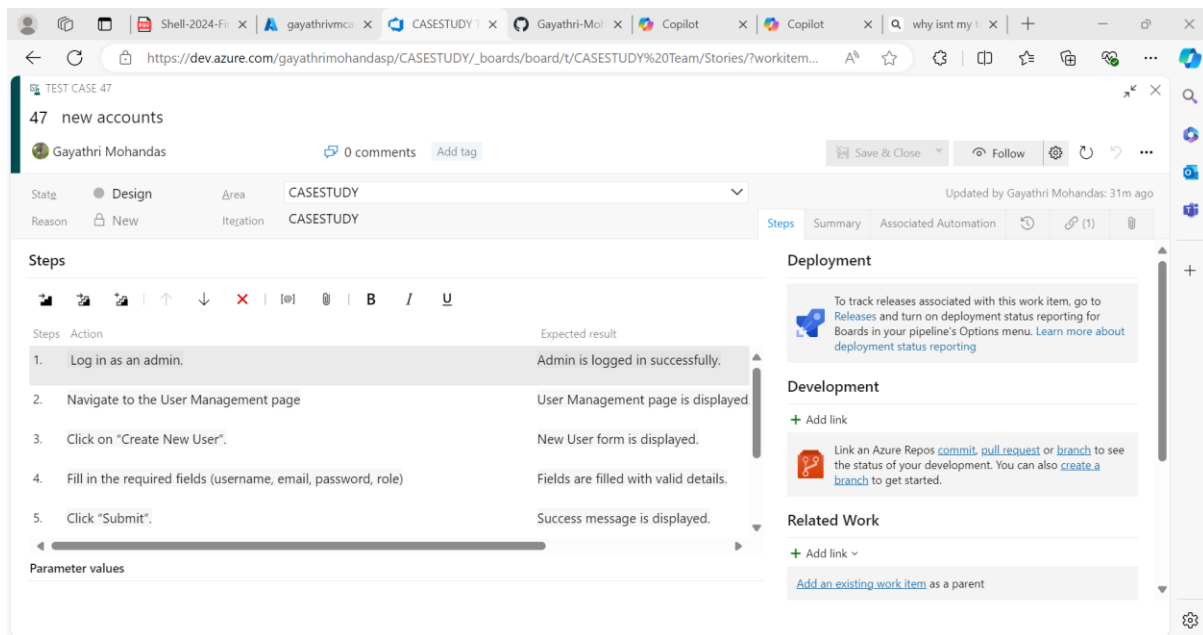
User stories



User stories were distributed to 3 sprints



## One instance of testcase

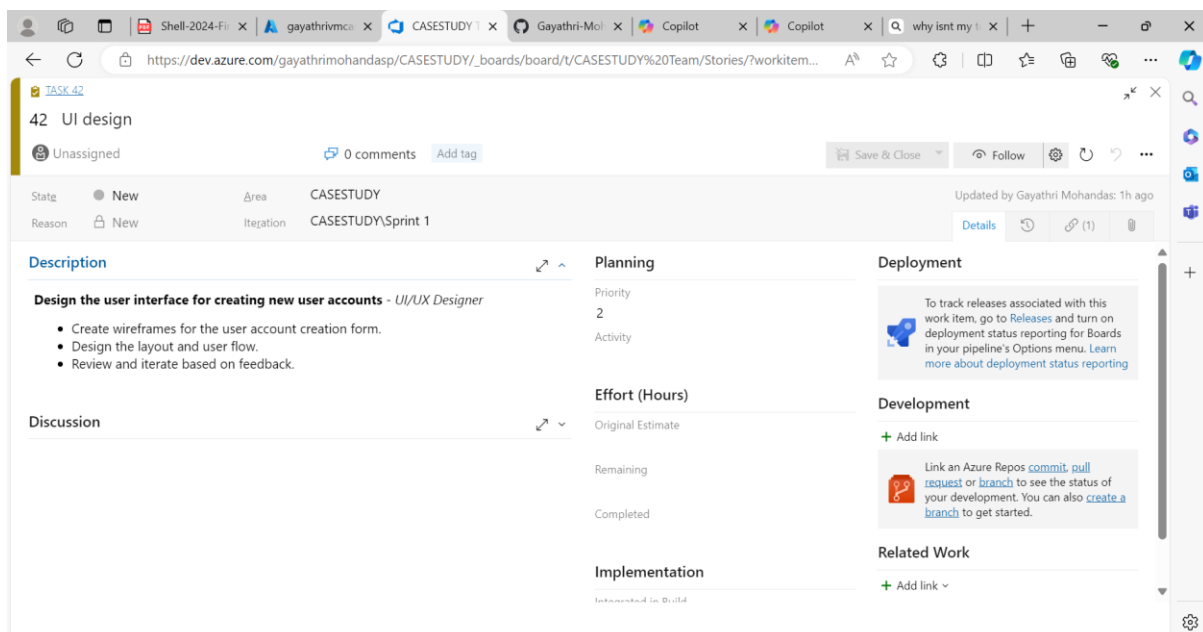


The screenshot shows a Test Case titled "47 new accounts" in the Azure DevOps interface. The test case is assigned to Gayathri Mohandas and is in the "Design" state. It is part of the "CASESTUDY" area and iteration. The test case has 0 comments and was updated 31 minutes ago. The "Steps" section contains five steps with their respective actions and expected results:

Steps	Action	Expected result
1.	Log in as an admin.	Admin is logged in successfully.
2.	Navigate to the User Management page	User Management page is displayed
3.	Click on "Create New User".	New User form is displayed.
4.	Fill in the required fields (username, email, password, role)	Fields are filled with valid details.
5.	Click "Submit".	Success message is displayed.

The "Deployment" section provides instructions on how to track releases associated with this work item. The "Development" section includes a link to add a link to an Azure Repos commit, pull request, or branch. The "Related Work" section includes a link to add an existing work item as a parent.

## One instance of task with subtask



The screenshot shows a Task titled "42 UI design" in the Azure DevOps interface. The task is assigned to "Unassigned" and is in the "New" state. It is part of the "CASESTUDY" area and iteration "CASESTUDY\Sprint 1". The task has 0 comments and was updated 1 hour ago. The "Description" section contains the following text:

**Design the user interface for creating new user accounts - UI/UX Designer**

- Create wireframes for the user account creation form.
- Design the layout and user flow.
- Review and iterate based on feedback.

The "Discussion" section is empty. The "Planning" section shows a priority of 2 and an activity. The "Effort (Hours)" section shows an original estimate, remaining, and completed hours. The "Implementation" section shows a link to the task. The "Deployment" section provides instructions on how to track releases associated with this work item. The "Development" section includes a link to add a link to an Azure Repos commit, pull request, or branch. The "Related Work" section includes a link to add an existing work item as a parent.

## One instance of bug

The screenshot shows an Azure DevOps bug report for item 97, titled "User Creation Fails with Valid Details". The bug is currently "Unassigned" and has "0 comments". It is located in the "CASESTUDY" area, specifically in the "CASESTUDY\Sprint 1" iteration. The bug was updated by Gayathri Mohandas 52 minutes ago.

**Repro Steps:**

**Steps to Reproduce:**

1. Log in as an admin.
2. Navigate to the User Management page.
3. Click on "Create New User".
4. Fill in all required fields with valid details.
5. Click "Submit".

**Expected Result:** The new user is created successfully, and a success message is displayed.

**Actual Result:** An error message is displayed, and the user is not created.

**System Info:** Click to add System Info

**Planning:**

- Resolved Reason
- Story Points
- Priority: 2
- Severity: 3 - Medium
- Activity

**Effort (Hours):**

- Original Estimate
- Remaining

**Deployment:**

To track releases associated with this work item, go to [Releases](#) and turn on deployment status reporting for Boards in your pipeline's Options menu. [Learn more about deployment status reporting](#)

**Development:**

+ Add link

Link an Azure Repos [commit](#), [pull request](#) or [branch](#) to see the status of your development. You can also [create a branch](#) to get started.

**Related Work:**

+ Add link

## 3. CI/CD WORKFLOW

The screenshot shows a GitHub Actions workflow run for the repository "unext\_casestudy\_cal". The workflow is named "build" and has successfully completed in 7 seconds. The workflow consists of three main steps:

- Install dependencies:** This step downloads and installs various Python packages. The logs show the following commands and outputs:

```
16 Downloading pluggy-1.5.0-py3-none-any.whl.metadata (4.8 kB)
17 Downloading pytest-8.3.2-py3-none-any.whl (341 kB)
18 Downloading pluggy-1.5.0-py3-none-any.whl (20 kB)
19 Downloading iniconfig-2.0.0-py3-none-any.whl (5.9 kB)
20 Downloading packaging-24.1-py3-none-any.whl (53 kB)
21 Installing collected packages: pluggy, packaging, iniconfig, pytest
22 Successfully installed iniconfig-2.0.0 packaging-24.1 pluggy-1.5.0 pytest-8.3.2
```
- Run tests:** This step is currently empty.
- Post Set up Python:** This step is currently empty.
- Post Checkout repository:** This step performs post-job cleanup and repository checkout. The logs show the following commands and outputs:

```
1 Post job cleanup.
2 /usr/bin/git version
3 git version 2.46.0
4 Temporarily overriding HOME='/home/runner/work/_temp/afc86429-43d3-4c17-95e4-cbf85c1d2e03' before making global git config changes
5 Adding repository directory to the temporary git global config as a safe directory
6 /usr/bin/git config --global --add safe.directory /home/runner/work/unext_casestudy_cal/unext_casestudy_cal
7 /usr/bin/git config --local --name-only --set rebase.autoStash true
```



Summary

Jobs

- build

Run details

Usage

Workflow file

### build

succeeded 1 minute ago in 7s

Search logs

- Post Set up Python 0s
- Post Checkout repository 0s

```
1 Post job cleanup.
2 /usr/bin/git version
3 git version 2.46.0
4 Temporarily overriding HOME='/home/runner/work/_temp/afc86429-43d3-4c17-95e4-c8f85c1d2e03' before making global
  git config changes
5 Adding repository directory to the temporary git global config as a safe directory
6 /usr/bin/git config --global --add safe.directory /home/runner/work/unext_casestudy_cal/unext_casestudy_cal
7 /usr/bin/git config --local --name-only --get-regexp core.sshCommand
8 /usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core.sshCommand'
  && git config --local --unset-all 'core.sshCommand' || :"
9 /usr/bin/git config --local --name-only --get-regexp http.https://github.com/.extraheader
10 http.https://github.com/.extraheader
11 /usr/bin/git config --local --unset-all http.https://github.com/.extraheader
12 /usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp
  'http.https://github.com/.extraheader' && git config --local --unset-all
  'http.https://github.com/.extraheader' || :"
```

Complete job 0s

test Public

Pin Unwatch 1 Fork 0 Star 0

main 2 Branches 0 Tags

Go to file + Code

About

No description, website, or topics provided.

Readme

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages

Gayathri-Mohandas Merge pull request #2 from Gayathri-Mohandas/... 14bab6b · 11 minutes ago 7 Commits

.github/workflows	Update deploy.yml	12 minutes ago
README.md	Initial commit	38 minutes ago
calculator.py	Create calculator.py	35 minutes ago
test_calculator.py	Create test_calculator.py	35 minutes ago

README

## test

Shell-2024-FilgayathrivmcaCASESTUDYWorkflow runCopilotCopilotwhy isnt my

https://github.com/Gayathri-Mohandas/test/actions

Gayathri-Mohandas / testType to search

CodeIssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

Actions

New workflow

All workflows

Deploy to GitHub Pages

Management

Caches

Attestations

Runners

All workflows

Showing runs from all workflows

Filter workflow runs

2 workflow runs

EventStatusBranchActor

✓ Merge pull request #2 from Gayathri-Mohandas/...

Deploy to GitHub Pages #2: Commit 14bab6b pushed by Gayathri-Mohandasmain

12 minutes ago26s...

✗ Merge pull request #1 from Gayathri-Mohandas/w...

Deploy to GitHub Pages #1: Commit 8030bf4 pushed by Gayathri-Mohandasmain

32 minutes ago18s...

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