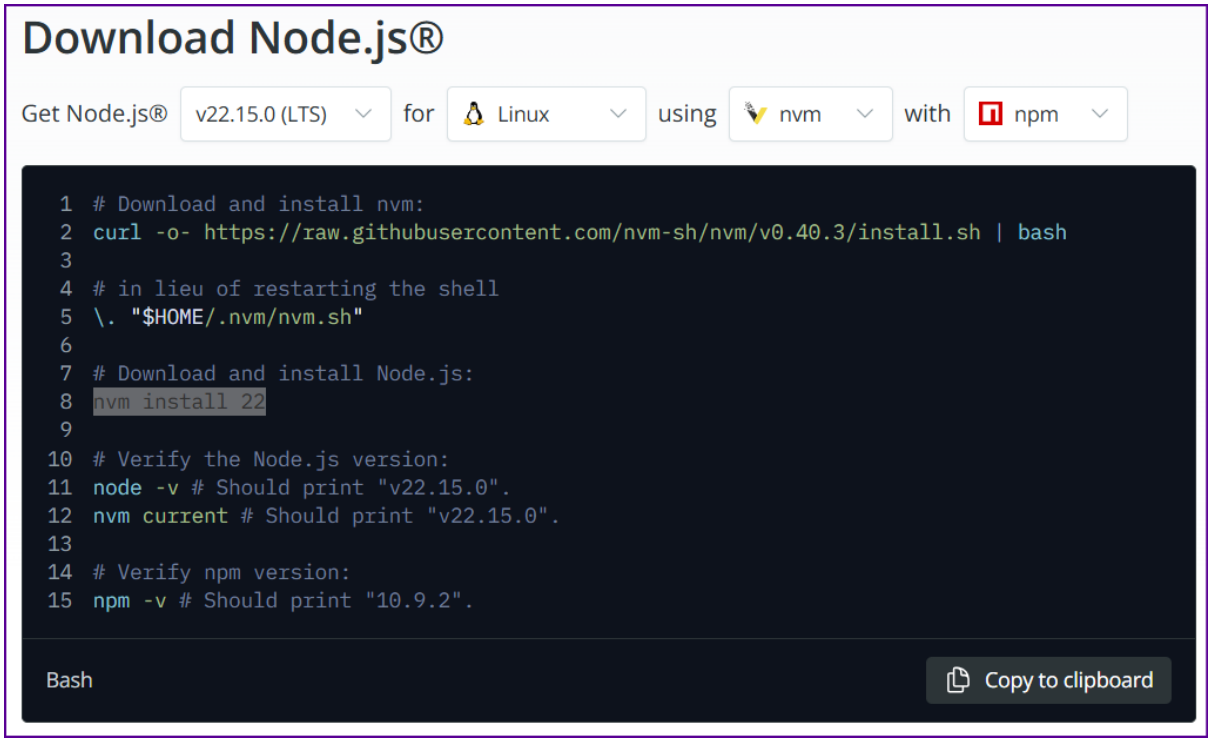
AWS COST OPTIMISATION USING AWS-COST-CLI

Install AWS COST CLI

https://nodejs.org/en/download



npm install -g aws-cost-cli

Default Usage -Cost Breakdown by Service

aws-cost

- Retrieves total cost breakdown by service.

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2. Cost Summary (No Service Breakdown)

aws-cost --summary

- Displays total cost only, without breakdown.

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3. Plain Text Output (No colors/tables)

aws-cost --text

- Outputs the cost report in plain text format.

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4. JSON Output (For automation)

```
aws-cost --json
```

- Outputs the cost report in JSON format.

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5. Use Specific AWS Credentials

```
aws-cost -k <AWS_ACCESS_KEY> -s <AWS_SECRET_KEY> -r <AWS_REGION>
```

- Pass AWS credentials directly in the CLI.

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6. Use AWS Profile (Configured via aws-cli)

```
aws-cost -p <profile_name>
```

- Use configured AWS CLI profiles.

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7. Send Report to Slack (Breakdown Message)

```
aws-cost --slack-token <SLACK_TOKEN> --slack-channel <CHANNEL_ID>
```

- Sends the cost report directly to a Slack channel.

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8. Docker Usage

```
docker build -t aws-cost-cli .
```

```
docker run aws-cost-cli
```

- Build and run the CLI inside Docker.

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9. Help and Version Info

```
aws-cost --help       # Shows help info
```

```
aws-cost --version    # Displays CLI version
```

SLACK CONFIG

Step 1: Create a Slack App

1. **Go to:** Slack API: Create App https://**api.slack.com**/apps
2. **Click**: Create New App
3. **Choose**: From scratch
4. **App Name**: AWS Cost Notifier
5. **Select Workspace**: Choose your **Slack workspace**.

Step 2: Set Slack App Permissions

1. In your app dashboard:
2. Go to **OAuth & Permissions**.
3. Scroll to **Scopes**:
    - Under **Bot Token Scopes**, add:
        - chat:write → Allows the bot to post messages.
        - chat:write.public → (Optional) Allows posting in public channels without being invited.
        - Files:write → To be able to write to the slack channel

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Step 3: Install the App in Your Workspace

1. Still in **OAuth & Permissions**, click **Install App to Workspace**.
2. Approve the permissions.
3. **Copy the Bot User OAuth Token**:
    - Starts with xoxb-... → **You'll need this for aws-cost-cli.**

Step 4: Find Your Slack Channel ID

1. Open Slack.
2. Go to the **channel** you want to post in.
3. Click on the **channel name** at the top → **View channel details**.
4. Copy the **Channel ID** (starts with C...).

Step 5: Test Slack Integration with aws-cost-cli

Run the following command:

aws-cost --slack-token xoxb-dcbsdvdsbvvsb --slack-channel C08UUEHEU

Invite the Bot in Slack Channel

/invite @AWS-COST-Report

1. Install Python & pip (if not already)

sudo apt update

sudo apt install -y python3 python3-pip python3-venv

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2. Create a Virtual Environment (Optional but Recommended)

python3 -m venv venv

source venv/bin/activate

1. **Install Slack SDK:**

pip install slack-sdk

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2. **Create Python Script (upload_cost_report.py):**

```
from slack_sdk import WebClient
from slack_sdk.errors import SlackApiError

slack_token = "xoxb-6800278956247-8805347127382-SQIckF4laKrziI8ODyqARQRA"
client = WebClient(token=slack_token)

try:
    # Use files_upload_v2 (latest method)
    response = client.files_upload_v2(
        channel="C08PVFZV9PF",
        initial_comment="AWS Cost Report",
        file="cost-report.txt"
    )
    print("File uploaded successfully:", response)

except SlackApiError as e:
    print(f"Error uploading file: {e.response['error']}")
```

3. **Run the AWS Cost CLI + Python Script:**

```
# Generate cost report
aws-cost --text > cost-report.txt


# Upload to Slack
python3 upload_cost_report.py
```