### **How to make a table to slack using Google virtual machine:**

**Setting up Google Cloud Platform:**

After setting up a billing account and project, go to the sidebar and select “VPC network”.

Create a new VPC using “Create VPC network”. Select “Automatic” subnet creation mode, “allow-internal”, “allow-rdp” and “allow-ssh” firewall rules, and click “Create”. You may need to wait for a minute for the network to be created.

Once it is created, click on its name and select the Firewall rules tab. Click “Add firewall rule”

Select your new network under the drop-down “Network” list, select “All instances in the network” under Targets, “IP ranges” under Source filter, “0.0.0.0/0” for Source IP ranges. Under Protocols and ports, select “Specified protocols and ports”, check “tcp” and “udp”. In both fields, add port 8080 Click “Create”.

**Setting up the Virtual Machine:**

Select the VPC network you previously created. The rest of this guide was developed on Ubuntu 18.04 LTS Minimal.

**Setup of table in slack:**

1. **Prerequisite:**
   1. Once you have made your VM on Google, Start the server
   2. After starting the server, right click on the connect button next to SSH. Start the instance by “Open in bowser Window”

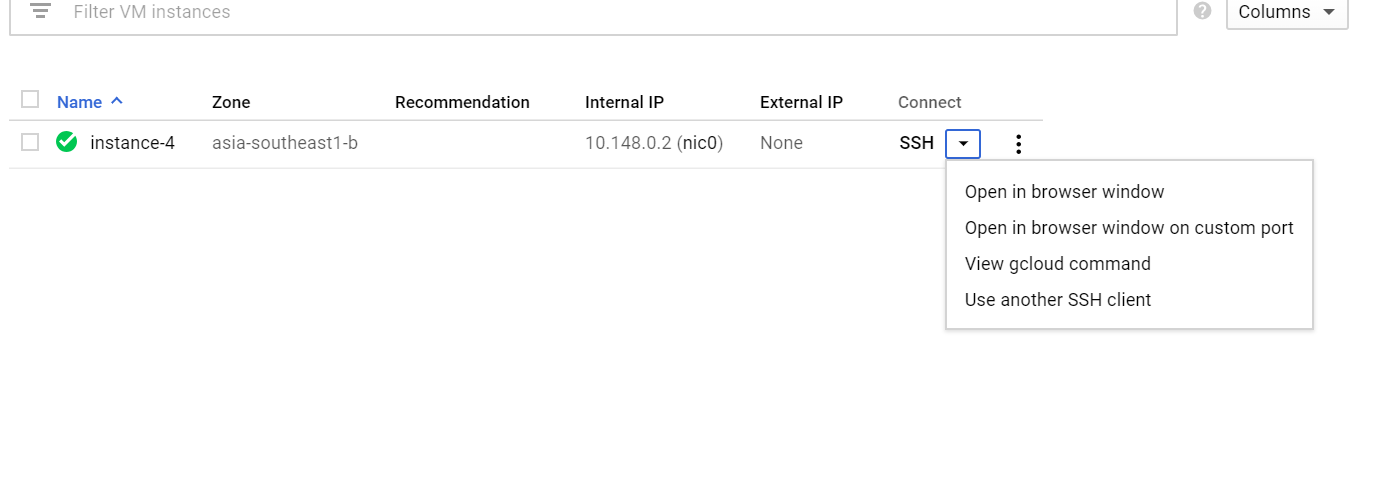


Figure : Starting VM instance

* 1. A new window will open and will look like the image below.

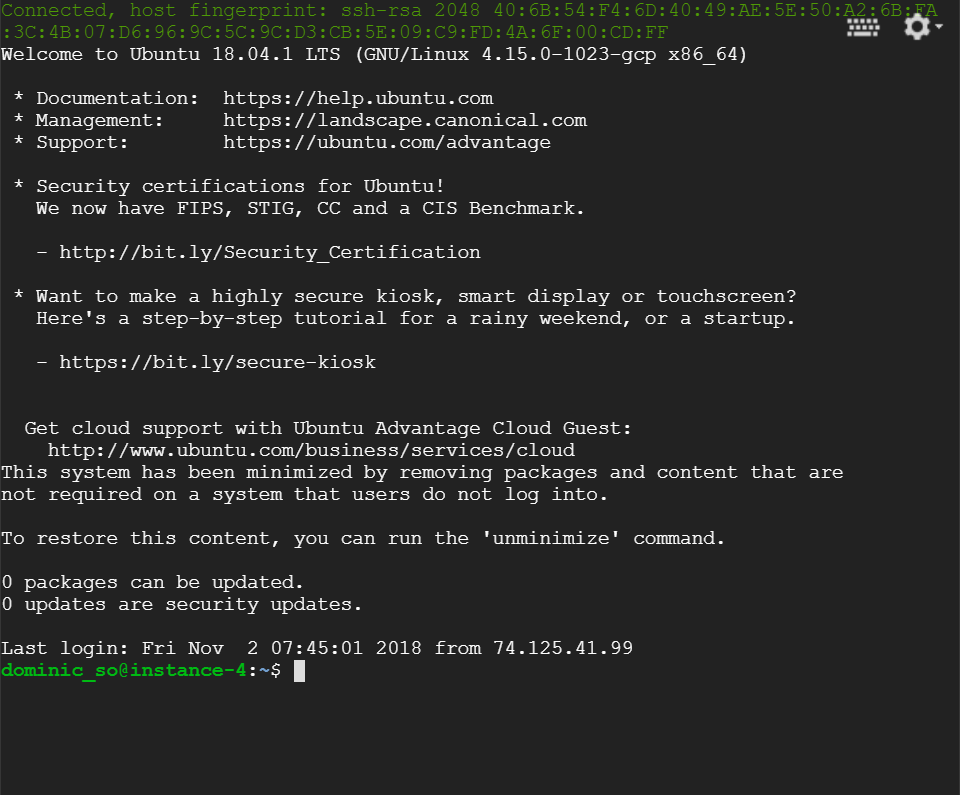


Figure : What VM SSH console looks like if it’s successful

* 1. After the instance started up, there are a couple of modules needed to be installed on the fresh new virtual machine server. To start off, install the following below:

sudo apt-get update

sudo apt-get install bash

This will help update the packages and then installing bash if incasae its missing

sudo apt-get install nodejs

This will install the nodejs into the virtual server

sudo apt-get install npm

This will install the npm.

This will install a text editor inside the VM to be able to create your own file.

Npm I slack-webhook

Sudo apt-get install nano

This will install slack-webhook from npm website.

1. Installing Slack webhook inbound:
   1. Go to the slack App, on the left side of the slack channel you will see Apps

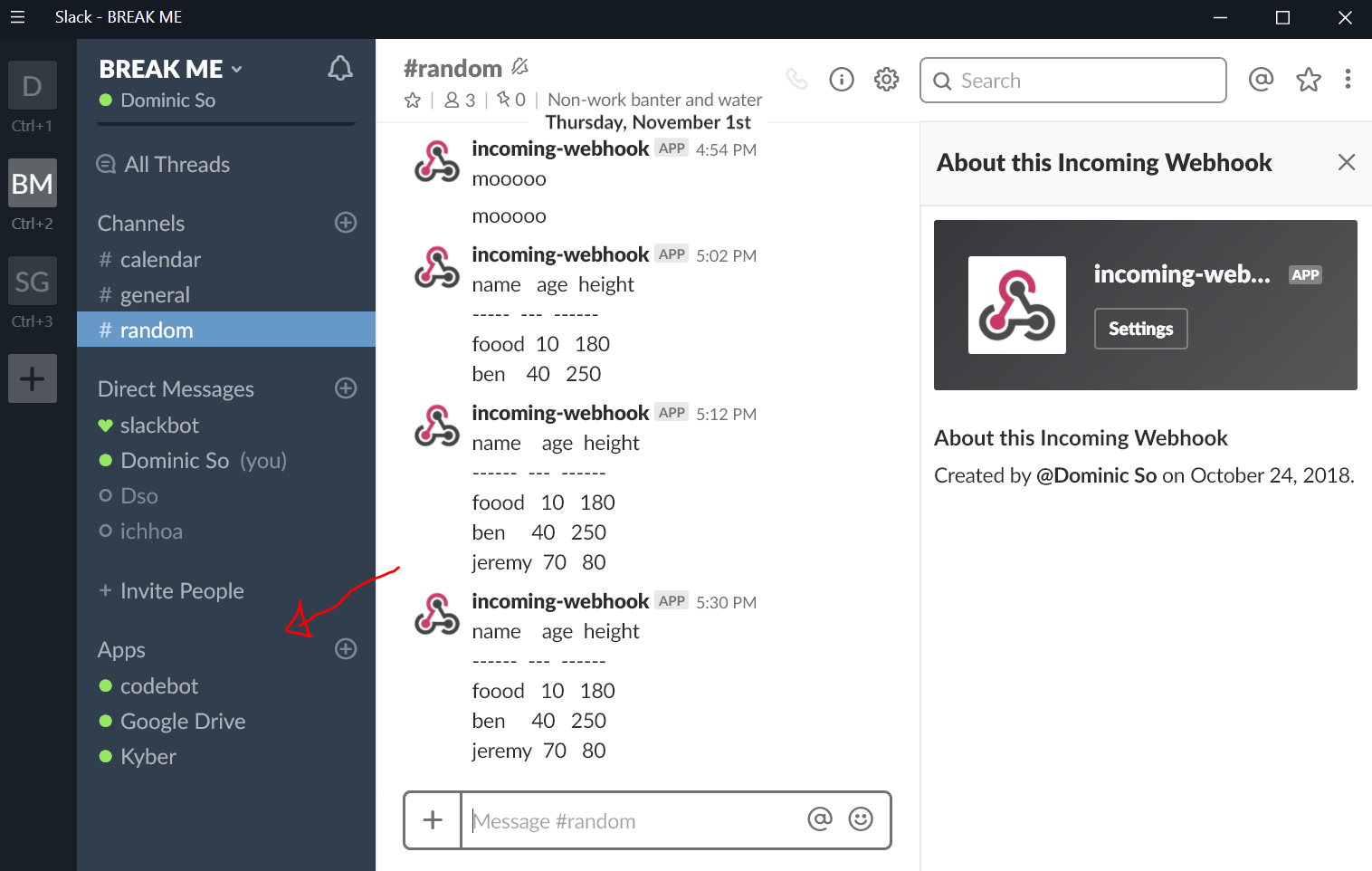


Figure : Installing Webhook on slack

* 1. From there find in the search bar incoming-webhook. Install it and you will be brought the settings in a website. From that site you will find your webhook URL. Take note of that as we need it to communicate to slack.

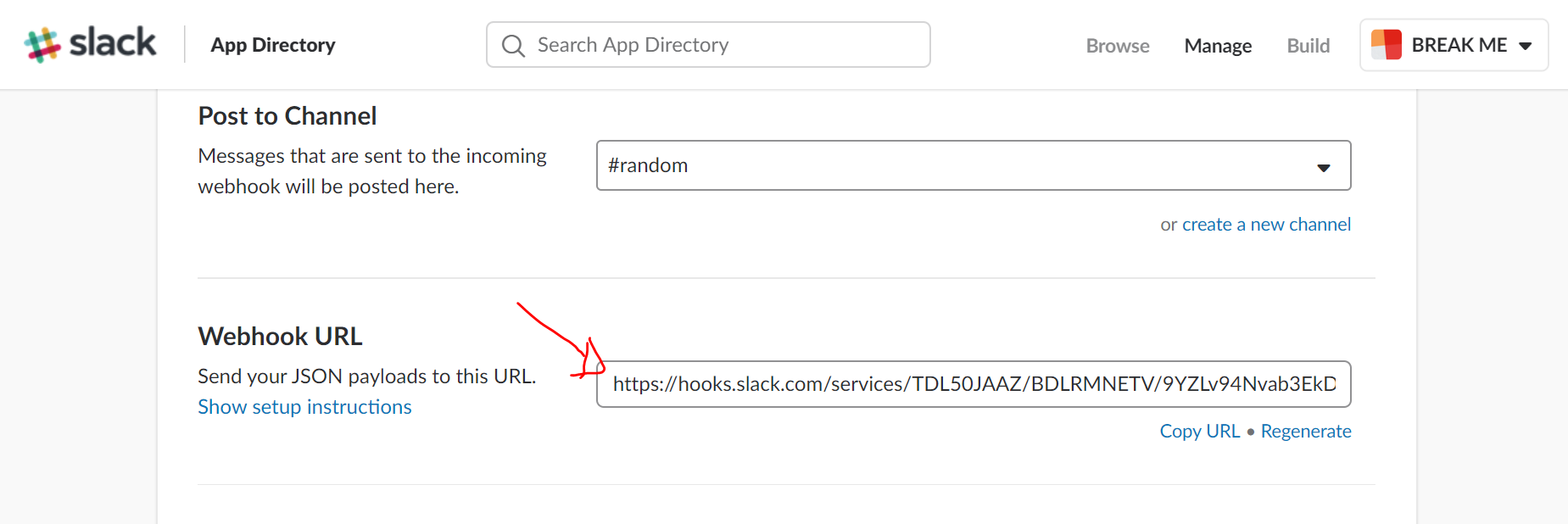


Figure : Finding webhook URL

1. **Creating the Console table node js:**
   1. Before creating a console table, you need to install the following:

Npm i console.table

This will install the console table into the vm that was grabbed from the npm server.

* 1. After that lets make our first console table and output it as an http file. Type in the following on the SSH

Nano Slack.js

* 1. You will be brought to a text editor. Slack.js is the file name. Write the following code from below.
  2. Press CTRL+X to exit the notepad and ensure to save the work. After that on the SSH console, type in
  3. Run the node Slack.js

//creating table

const cTable = require('console.table');

const table = cTable.getTable([

{

name: 'foood',

age: 10,

height: 180

},{

name: 'ben',

age: 40,

height: 250

},{

name: 'jeremy',

age: 70,

height: 80

}

]);

//sending to webhook slack

//sending to webhook slack

var SlackWebhook = require('slack-webhook')

var slack = new SlackWebhook('https://hooks.slack.com/services/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') // This needs to be the same url as your slack

slack.send(table);

Node Slack.js

* 1. You will get the following instance in your slack if it works.

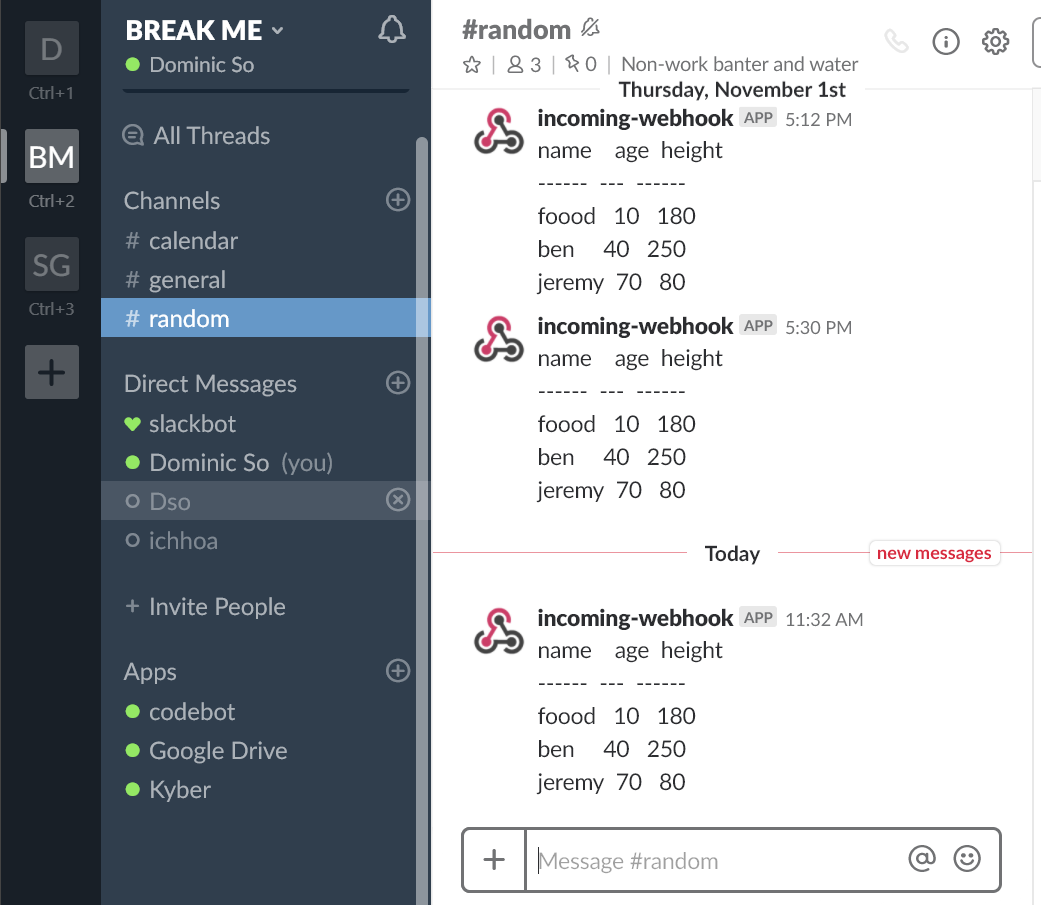


Figure : Slack table