Step 1 :install java 8   
step 2 : install python 3.8  
step 3: download Cassandra 3.11.15 and unzip using   
step 4 : goto conf/Cassandra yml   
 cluster\_name: 'MyCluster' # Make sure all nodes have the same name  
 listen\_address: 192.168.1.10 # This is Chetna's IP

rpc\_address: 192.168.1.10 # Same as listen\_address

seed\_provider:

- class\_name: org.apache.cassandra.locator.SimpleSeedProvider

parameters:

- seeds: "192.168.1.10,192.168.1.11" # Chetna and Vaishnavi are seeds for this node

After making the necessary changes, **save the file** and **close the editor**.

Step 5 : Disable Firewall (on each machine)

**On each machine:**

1. **Open Command Prompt**.
2. **Navigate to the bin directory** in your Cassandra folder. For example: cd C:\path\to\apache-cassandra-3.11.15\bin
3. **Start Cassandra** by running:

cassandra.bat

**🛠 Step 1: Fix PowerShell Script Execution Issue**

PowerShell has a script execution policy that blocks running scripts by default. To resolve this, follow these steps:

1. **Open PowerShell as Administrator**:
   * Press Win + X and select **Windows PowerShell (Admin)**.
2. **Set Execution Policy**:
   * Run the following command to change the script execution policy:

Set-ExecutionPolicy Unrestricted -Scope CurrentUser

1. When prompted, type Y to confirm the change.

This will allow PowerShell scripts (like cassandra.bat) to run without restriction.

**🛠 Step 2: Set JAVA\_HOME Environment Variable**

The error JAVA\_HOME environment variable must be set means that Cassandra can’t find Java on the system because the **JAVA\_HOME** environment variable is not set correctly.

1. **Find Java Installation Directory**:
   * Navigate to where Java is installed. By default, it should be something like:

plaintext

CopyEdit

C:\Program Files\Java\jdk1.8.0\_321

Make sure you are using the correct **Java 8** version that Cassandra supports.

1. **Set JAVA\_HOME**:
   * Right-click on **This PC** or **Computer** on your desktop or in File Explorer, and choose **Properties**.
   * Select **Advanced system settings** on the left.
   * In the System Properties window, click **Environment Variables**.
   * Under **System Variables**, click **New** and add:
     + **Variable Name**: JAVA\_HOME
     + **Variable Value**: The path to your Java installation. For example:

plaintext

CopyEdit

C:\Program Files\Java\jdk1.8.0\_321

* + Click **OK**.

1. **Add JAVA\_HOME to PATH**:
   * In the **Environment Variables** window, under **System Variables**, find and select the **Path** variable, and click **Edit**.
   * Click **New**, and then add:

plaintext

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%JAVA\_HOME%\bin

* + Click **OK**.

1. **Verify the JAVA\_HOME Variable**:
   * Open a new Command Prompt (close the previous one).
   * Type:

bash

CopyEdit

echo %JAVA\_HOME%

* + It should print the path to your Java installation.

C:\Users\Compaid\_Service\Downloads\apache-cassandra-3.11.15-bin\apache-cassandra-3.11.15\bin>