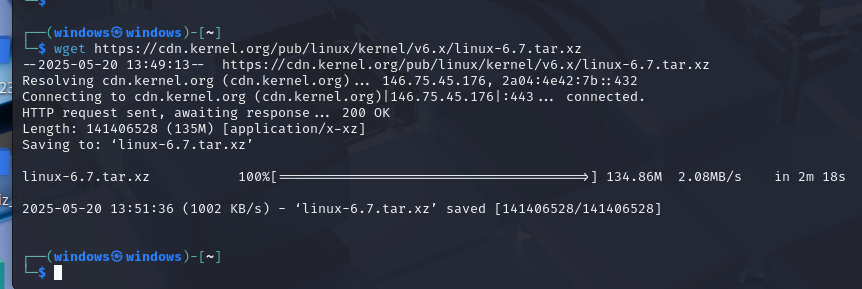
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| *BS Cyber Security Department AU* |

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| --- | --- |
| **Registration ID** | **233026** |
| **Submitted By** | **Muhammad Sohaib Rafiq** |
| **Submitted To** | **Iram Fatima Hashmi** |
| **Date of Submission** | **05/20/2025** |
| **Assign NO.** | **2** |
| **Subject** | **OS LAB** |

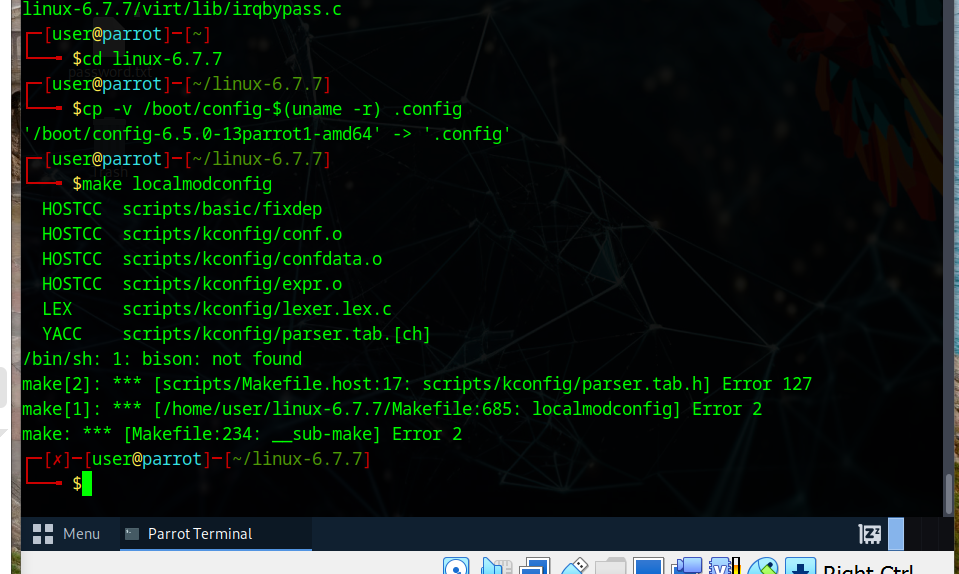
**Setting up the environment:**

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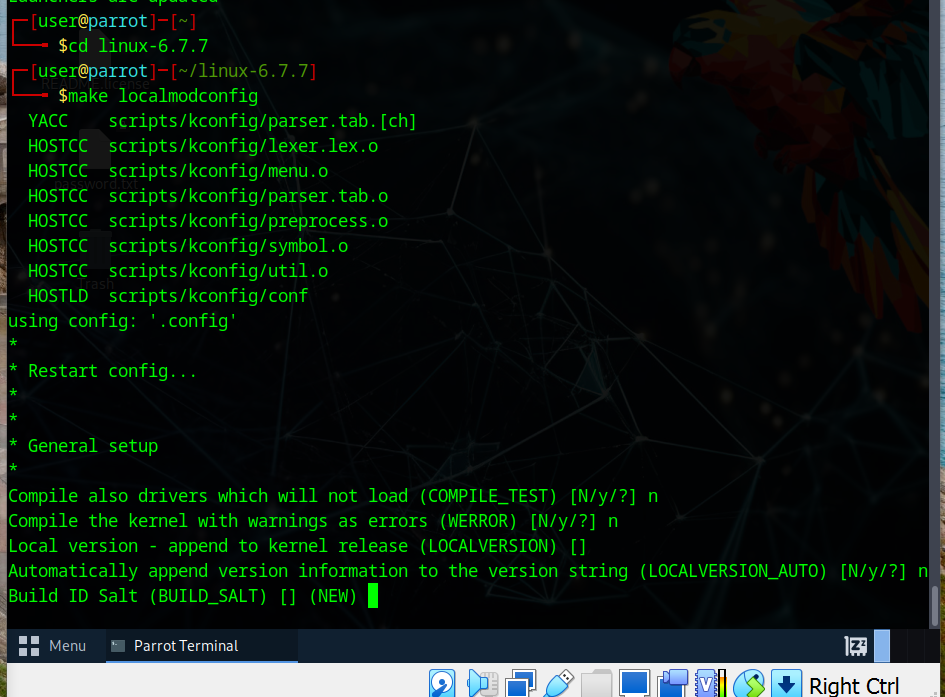
**Kernel configuration:**

**Here at the first time I faced the error because the bison tool is not installed that the make**

**Localmodconfig**

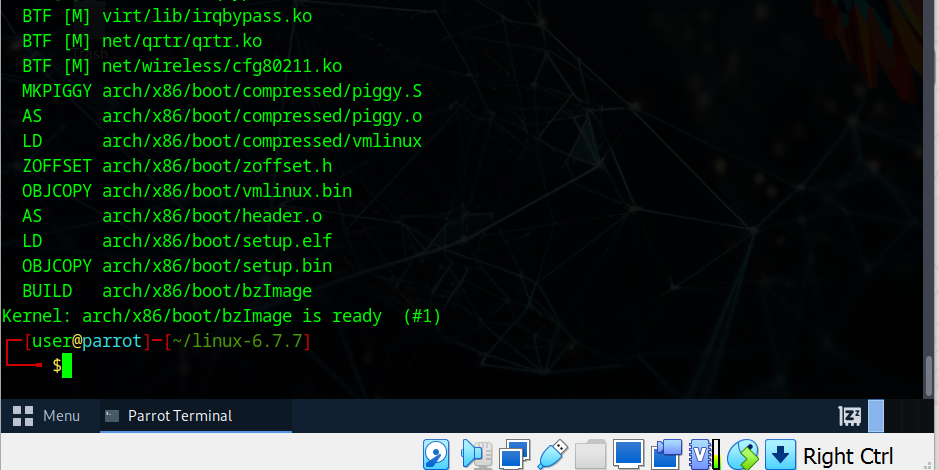
****

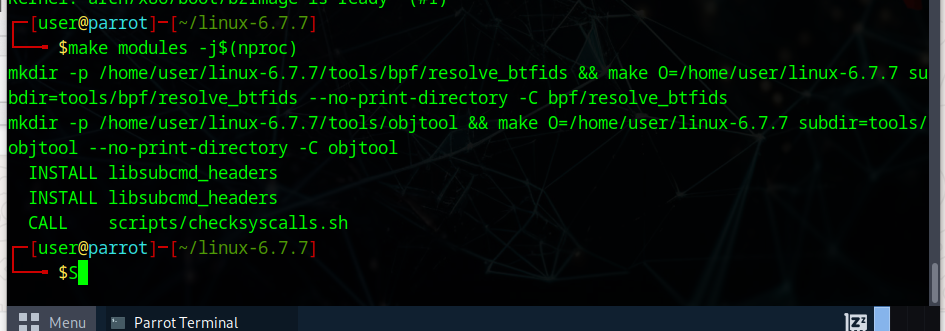
**After fixing the bison error now the make localmodconfig runs successfully.**

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**make -j$(nproc)**

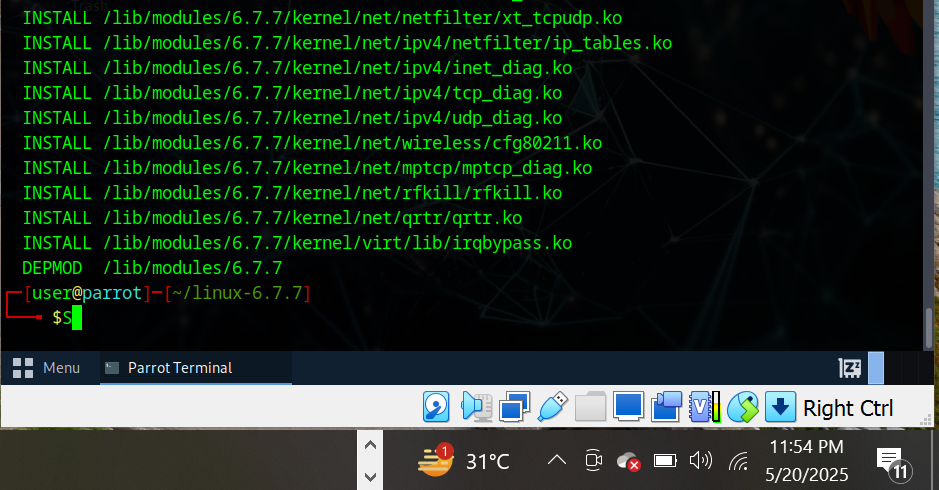
**make modules -j$(nproc)**

****

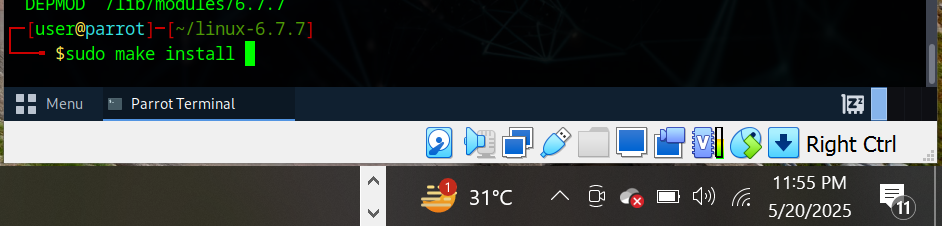
****

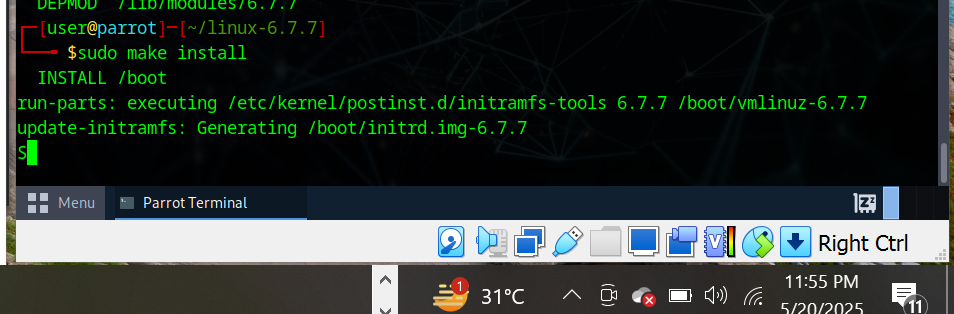
Step 7: Install Modules

The commad is sudo make modules-install:

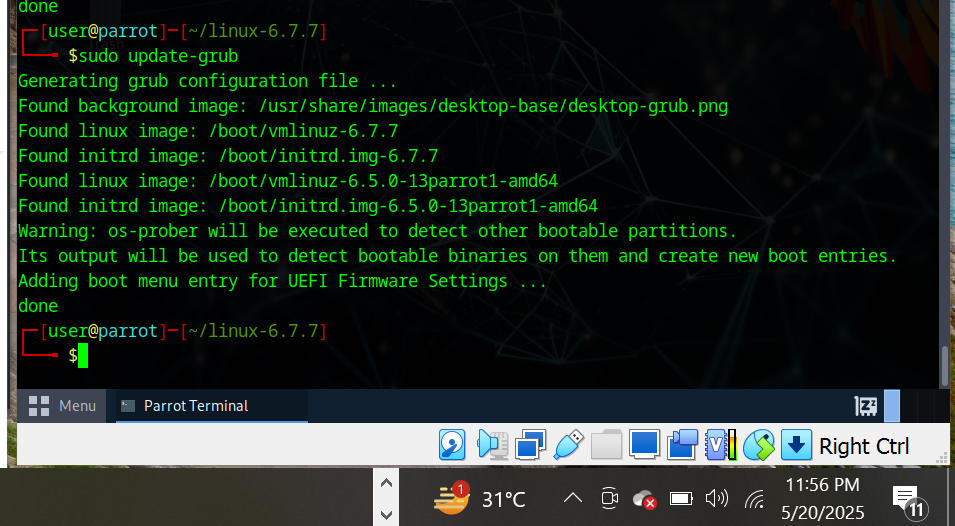
****

Step 8: Install the Kernel:





Step 9: Update Bootloader (GRUB)



Step 10: Reboot and Verify

Sudo reboot

Verify the kernel

