CTBTO
PREPARATORY COMMISSION

COMPREHENSIVE
NUCLEAR–TEST–BAN
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Possible issues of the Virtual Machine running on OS Windows

Online Training Course on NDC Capacity Building: Introductory Training Course on Radionuclide IMS Data and IDC Products (particulates and noble gas), 7 – 18 March 2022

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1. VT-x/AMD-V is not enabled

VT-x is disabled in the BIOS for both all CPU modes (VERR_VMX_MSR_ALL_VMX_DISABLED)

VT-x/AMD-V hardware acceleration is not available on your system. Your 64-bit guest will fail to detect a 64-bit CPU and will not be able to boot.
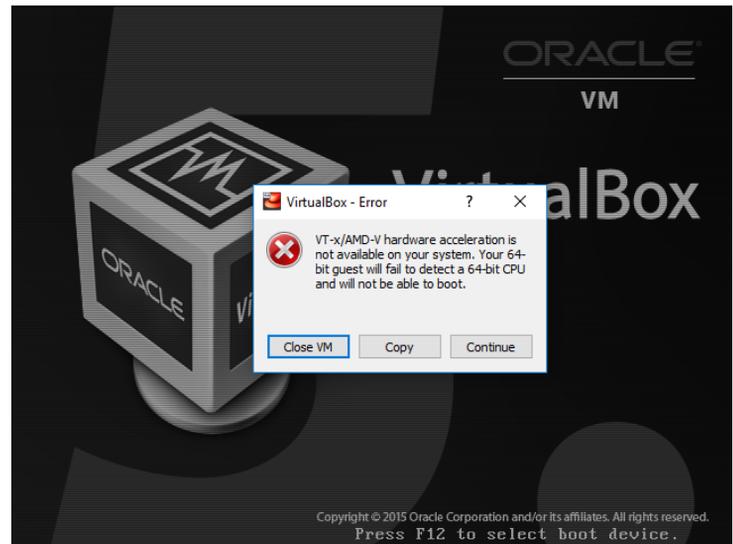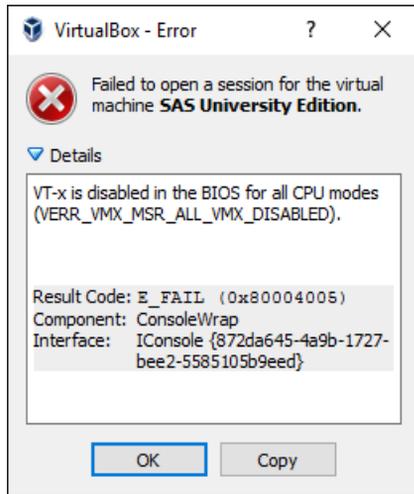
1. VT-x/AMD-V is not enabled

Visit the page to find a way on how to enable a Virtualization in your hardware:
https://2nwiki.2n.cz/pages/viewpage.action?pageId=75202968
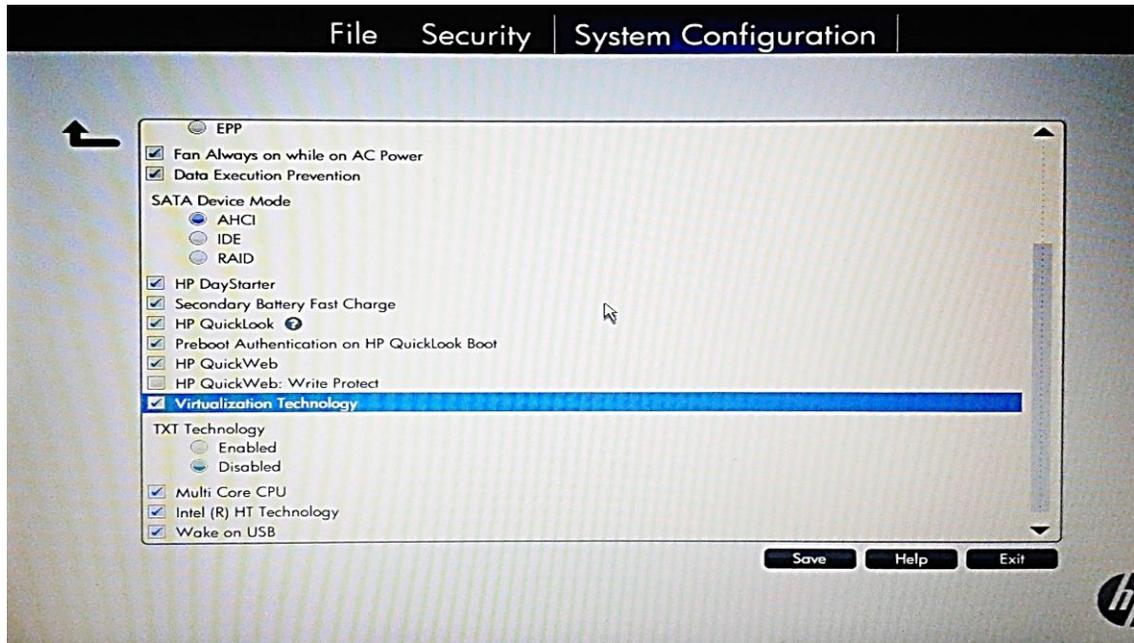
2. VirtualBox and Hyper-V conflict

In some cases Oracle VM VirtualBox cannot be used on a Windows host where Hyper-V is running. When using this feature, some host systems might experience significant Oracle VM VirtualBox performance degradation or fail to run with the error message.

The solution might be Disabling Hyper-V.
- Press Windows logo key + X, then press A key to run Command Prompt as administrator.
- In Command Prompt window, type
  bcdedit /set hypervisorlaunchtype off
  and press Enter key to execute this command.
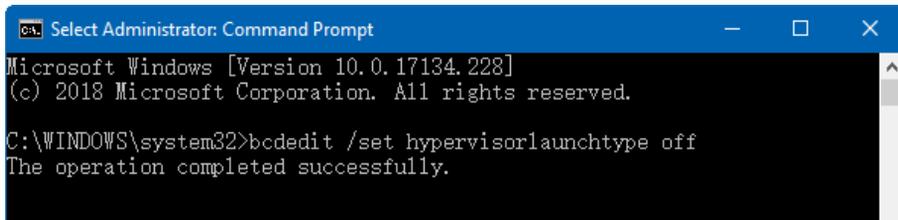
3. Small size of the VM Desktop

Some NDC-in-a-Box applications require a screen with HD resolution to accommodate the entire GUI: panels, buttons, maps, etc. In case the native resolution of your monitor lower than HD, it still can be used in Scaled Mode:

- Select from the main menu of VirtualBox: View->Scaled Mode

- From the main menu of the Virtual Machine select: Applications-> System Tools-> Settings
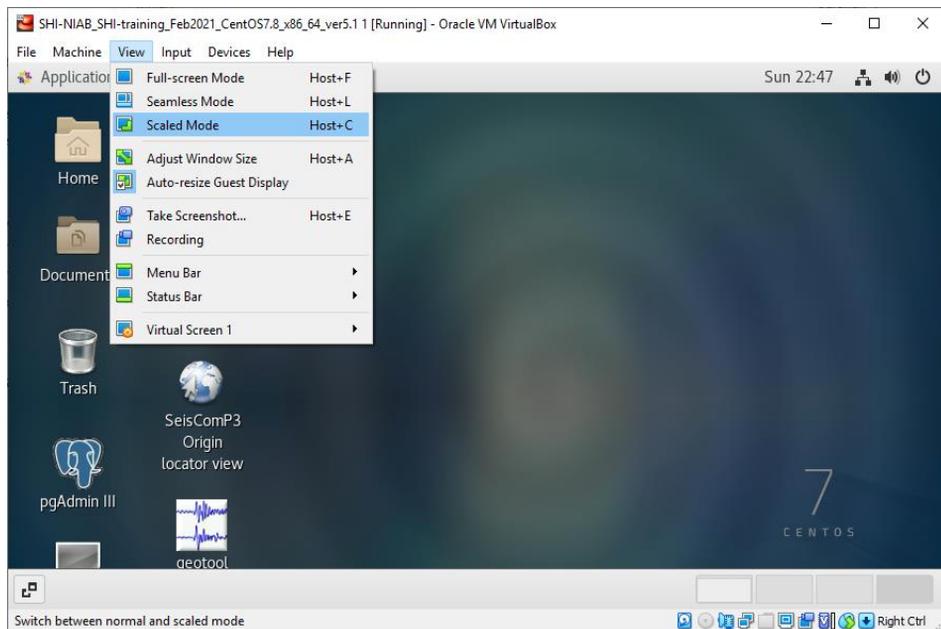
3. Small size of the VM Desktop

- From the left panel of Settings window choose Devices, then Displays.
- Click on the Resolution parameters and select a better resolution which fits your screen ratio. Click Apply changes.
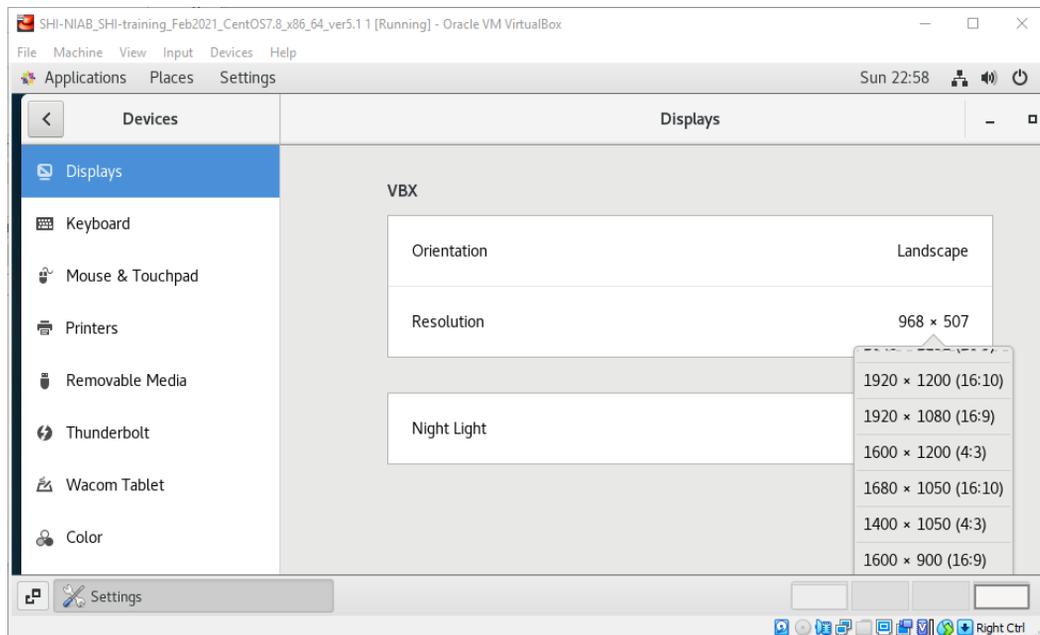
4. Setting your keyboard layout

If your keyboard layout is different from the English QWERTY as preconfigured in the provided VM, you can easily change it by following the steps:

- From the left panel of the Settings window choose "Region & Language" item and click "+" button under the Input Sources panel.

Double-click this icon on the desktop
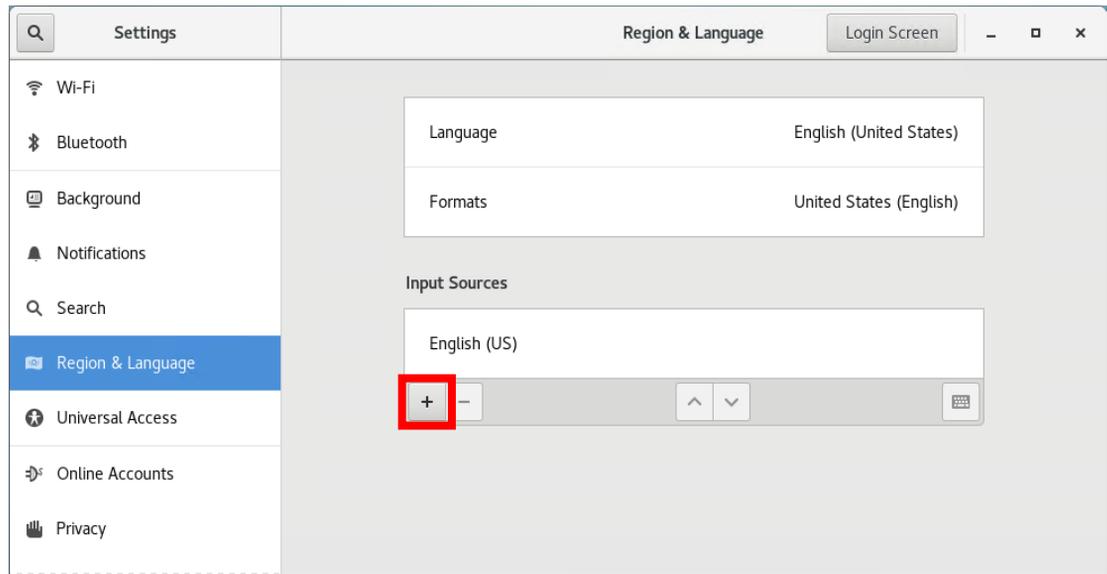
4. Setting your keyboard layout

- Select first your language and then a keyboard layout. Click Add button.
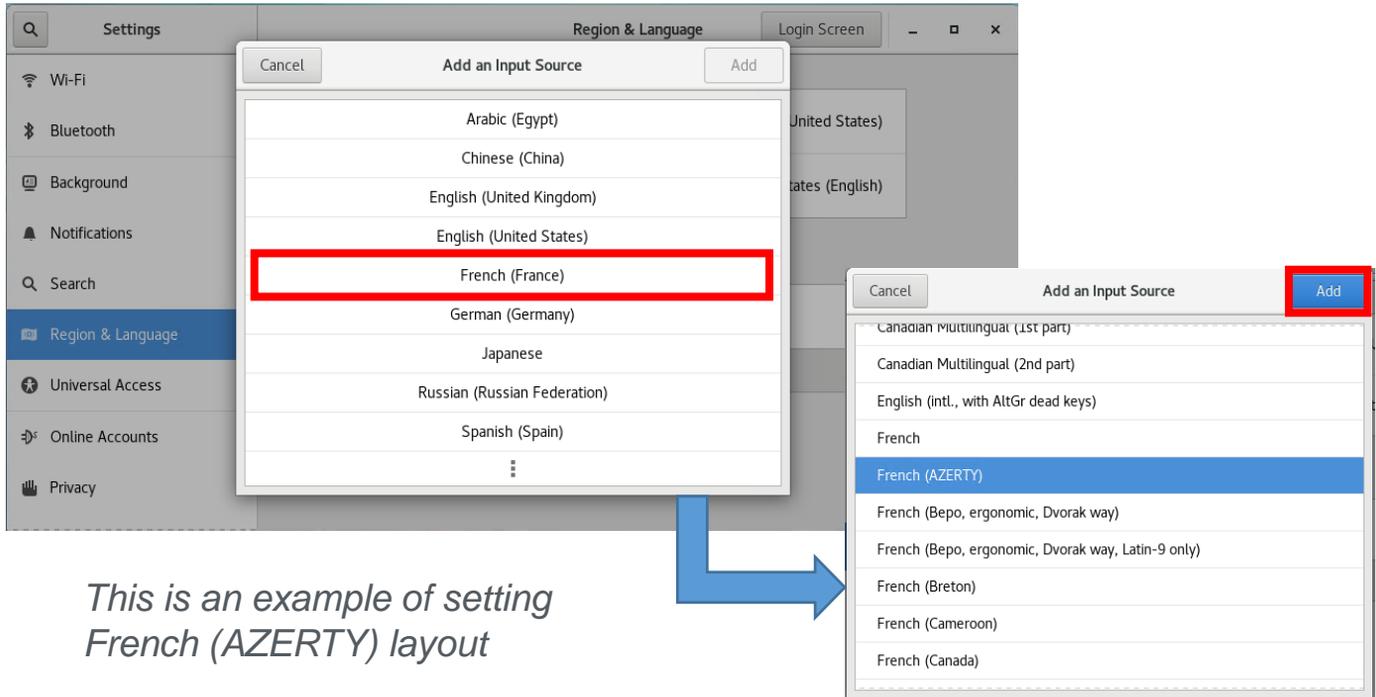
This is an example of setting French (AZERTY) layout

4. Setting your keyboard layout

- You can further remove the English (US) layout by selecting it in the Input Sources panel and clicking "−" button below.

Thank you!