

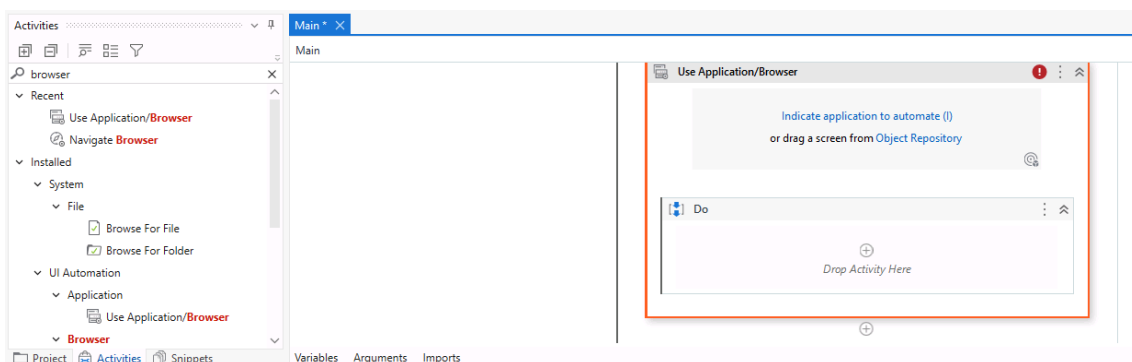
Lab 5: Using Mouse and Keyboard Automation

Lab Solutions

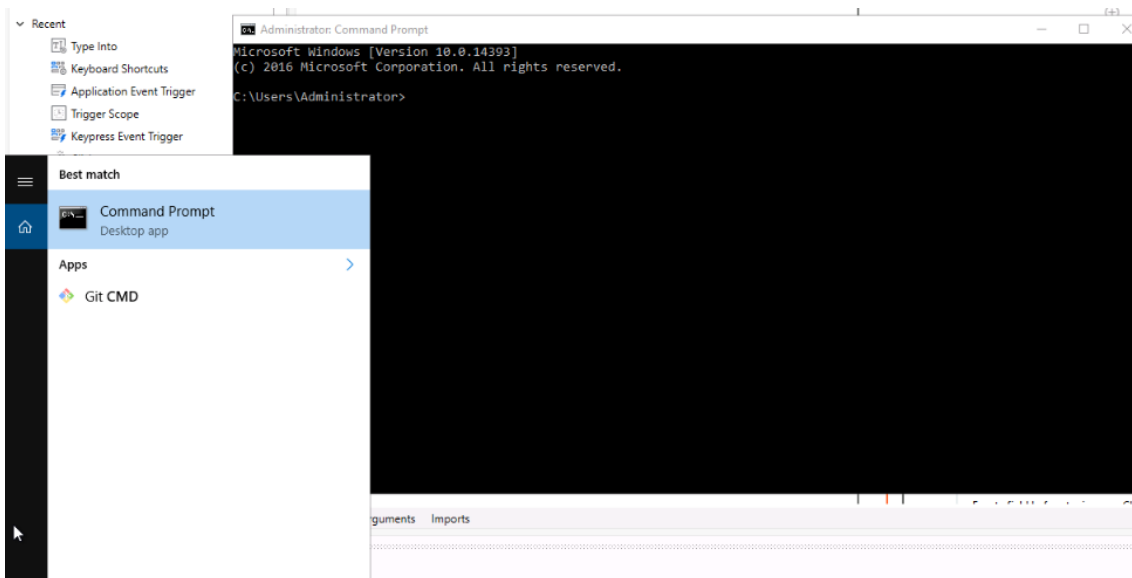
Lab solution(s) are present in `Solution\Lab05` folder.

To exemplify the automation of a process by using activities that simulate mouse and keyboard input, we created an automation that displays the IP address, subnet mask, and default gateway for all adapters from the Command Prompt, by using the `ipconfig` command and actions similar to human ones:

1. Create a new **Sequence**.
2. In the **Activities** panel, search for **Use Application/Browser** and drag it to the **Designer** panel. Notice that the activity is automatically added inside a **Sequence**.

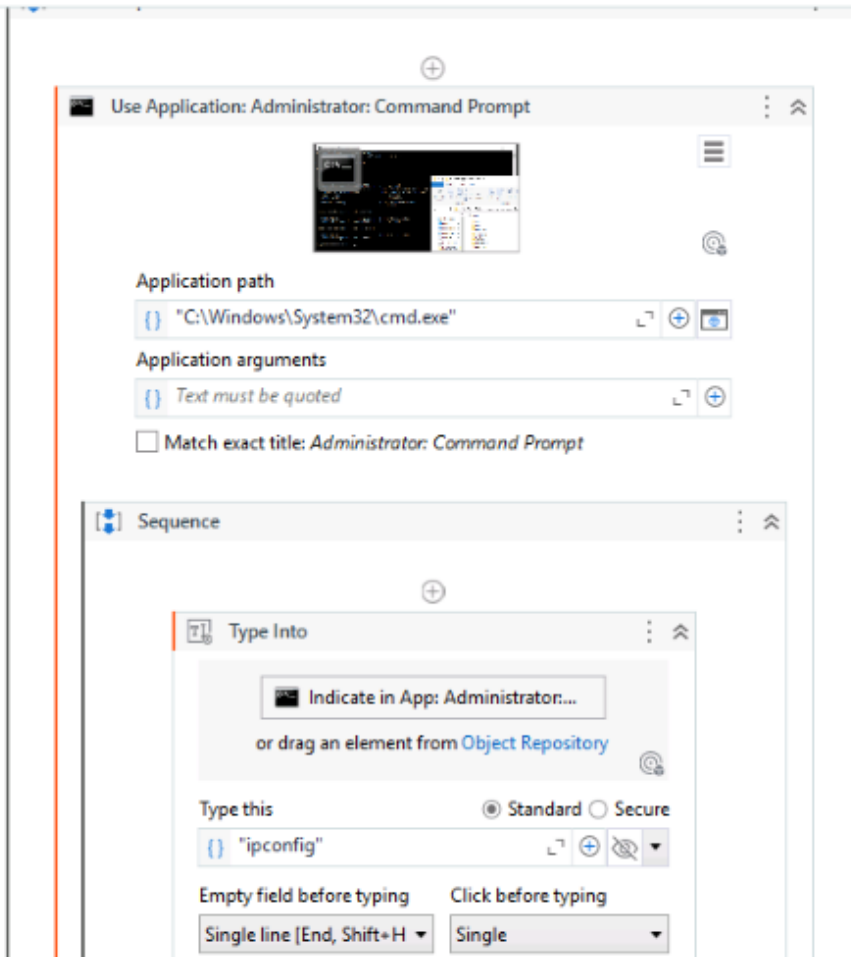


3. Open new **terminal**:

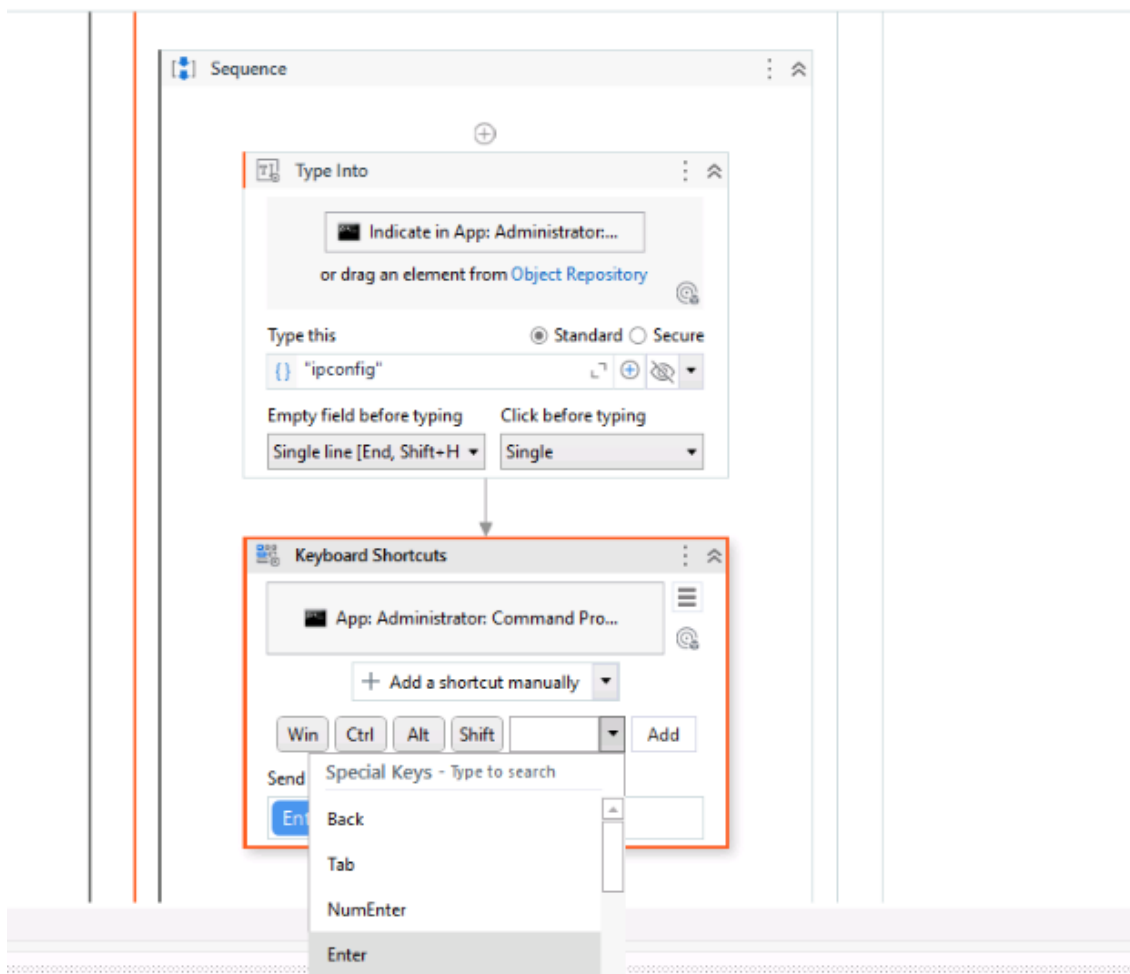


4. In `Use Application/Browser`, click **Indicate application to automate**, and then move the mouse pointer to the cmd terminal you just opened. When the window is highlighted, click anywhere in the window.

5. The `Use Application/Browser` activity is updated, the Application Path is added and a screenshot of the window appears inside the activity.
6. Add **Type Into** activity.
7. Select the activity and into the **Text** field, write "ipconfig".



8. Add **Keyboard Shortcuts** activity below `Type Into` activity.
9. Select the activity and from the drop-down menu select the **Add a shortcut manually** option. After that, select **Enter** key in `Send key combination`.



10. Press F5. The automation is executed. The IP address, subnet mask and default gateway for all adapters are displayed in the Command Prompt.

```

Administrator: Command Prompt
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C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : ec2.internal
    IPv6 Address. . . . . : 2600:1f18:1029:2800:44f5:1234:2c3f:8f42
    Link-local IPv6 Address . . . . . : fe80::75a5:9562:54df:c7ce%5
    IPv4 Address. . . . . : 172.26.5.121
    Subnet Mask . . . . . : 255.255.240.0
    Default Gateway . . . . . : fe80::da:d9ff:fe08:dcc7%5
                              172.26.0.1

Tunnel adapter isatap.ec2.internal:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : ec2.internal

Tunnel adapter Local Area Connection* 3:

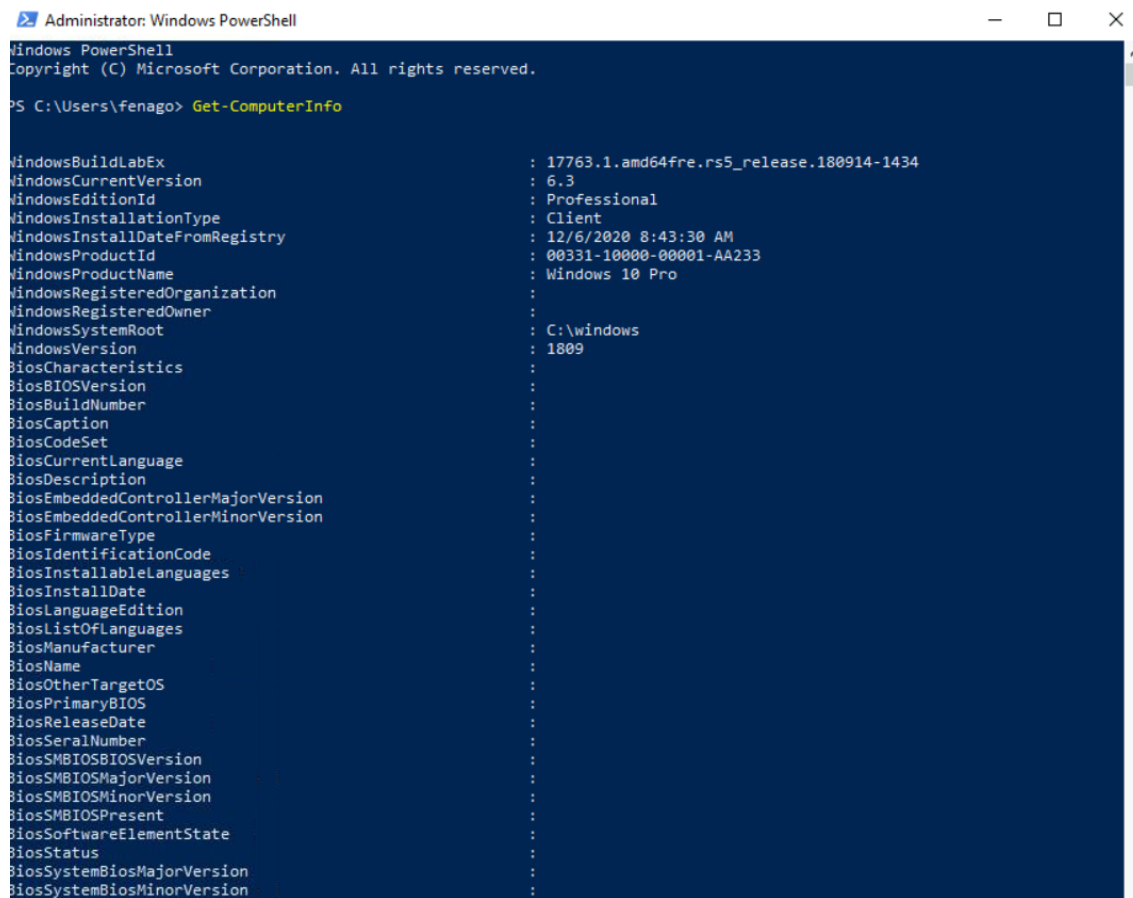
    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : 2001:0:34f1:8072:8a2:1ef:cbfc:1650
    Link-local IPv6 Address . . . . . : fe80::8a2:1ef:cbfc:1650%4
    Default Gateway . . . . . : 

C:\Users\Administrator>

```

Task:

Create new sequence to open "Powershell" and get System Info as shown below:



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The command prompt shows the user is at the C:\Users\fenago directory. The command `Get-ComputerInfo` has been executed, displaying a comprehensive list of system information. The output includes details about Windows version, edition, installation type, and date, as well as BIOS and hardware information.

```
Windows PowerShell
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PS C:\Users\fenago> Get-ComputerInfo

WindowsBuildLabEx           : 17763.1.amd64fre.rs5_release.180914-1434
WindowsCurrentVersion       : 6.3
WindowsEditionId            : Professional
WindowsInstallationType     : Client
WindowsInstallDateFromRegistry : 12/6/2020 8:43:30 AM
WindowsProductId           : 00331-10000-00001-AA233
WindowsProductName         : Windows 10 Pro
WindowsRegisteredOrganization : 
WindowsRegisteredOwner     : 
WindowsSystemRoot          : C:\windows
WindowsVersion              : 1809
BiosCharacteristics         : 
BiosBIOSVersion            : 
BiosBuildNumber            : 
BiosCaption                 : 
BiosCodeSet                : 
BiosCurrentLanguage        : 
BiosDescription            : 
BiosEmbeddedControllerMajorVersion : 
BiosEmbeddedControllerMinorVersion : 
BiosFirmwareType           : 
BiosIdentificationCode     : 
BiosInstallableLanguages   : 
BiosInstallDate            : 
BiosLanguageEdition        : 
BiosListOfLanguages        : 
BiosManufacturer           : 
BiosName                   : 
BiosOtherTargetOS          : 
BiosPrimaryBIOS            : 
BiosReleaseDate            : 
BiosSerialNumber           : 
BiosSMBIOSBIOSVersion      : 
BiosSMBIOSMajorVersion     : 
BiosSMBIOSMinorVersion     : 
BiosSMBIOSPresent          : 
BiosSoftwareElementState   : 
BiosStatus                 : 
BiosSystemBiosMajorVersion : 
BiosSystemBiosMinorVersion :
```