**Run as a Windows Service**

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# Discover Liberty

In this lab we will perform the initial set up required for all the labs and explore Liberty. The instructions assume a Windows environment, but Linux and Mac differences are presented. Where applicable, substitute with Linux or Mac equivalent, such as path names.

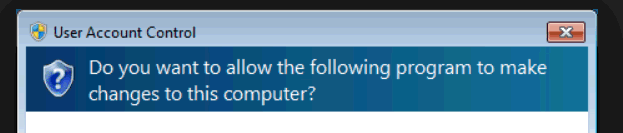
Please refer to the following table for file and resource location references on different operating systems.

|  |  |  |
| --- | --- | --- |
| Location Ref. | OS | Absolute Path |
| *{LAB\_HOME}* | Windows | C:\WLP\_<version> |
| Linux | ~/WLP\_<version>  Or your choice |
| Mac OSX | ~/WLP\_<version>  Or your choice |

## Running Liberty as a Windows Service

A Liberty server can be registered as a Microsoft Windows Service program when running on Windows. After registering as a Windows Service, Liberty can then be started and stopped manually as a Service, or the Windows "Services" program can be used to change the Liberty service to start automatically when the Windows Server starts.

The commands to Register/Start/Stop/Unregister Liberty as Service use the same **server.bat** file that is used when starting the Liberty server normally. You should get a Windows prompt to make changes to your computer. Accept these changes.



1. Create a server

**cd {LAB\_HOME}\wlp\bin**

**server create labServer**

1. Register the labServer as a Windows service by running these commands:

**cd {LAB\_HOME}\wlp\bin**

**server registerWinService labServer**

1. Start the labServer Windows service. This can be done with the following command:

**server startWinService labServer**

Alternatively, the server can be started through the Windows Services interface. Start the Windows "Services" program and find the entry that corresponds to the server name 'labServer'. Using the Windows Services program the service can be modified to start in Automatic mode, to start under a specified Account ID (and password), and to start with specified Liberty Server command line parameters.

1. Stop the labServer Windows service. This can be done with the following command:

**server stopWinService labServer**

Alternatively, the server can be stopped through the Windows Services interface.

1. Unregister the labServer Windows service. This can be done with the following command:

**server unregisterWinService labServer**

The Liberty Service can also be administered via the Windows Registry, typically using the Windows **regedit** program. The entries for the Service will be located in the Registry:

HKEY\_LOCAL\_MACHINE->SOFTWARE->Wow6432Node->Apache Software Foundation->Procrun 2.0-><labServer>

and

HKEY\_LOCAL\_MACHINE->SYSTEM->CurrentControlSet->services-><labServer>

This completes the lab exercises.

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