***********User Manual ***********

1) Initial Configurations:

1) **Initial Minimum Requirements :**
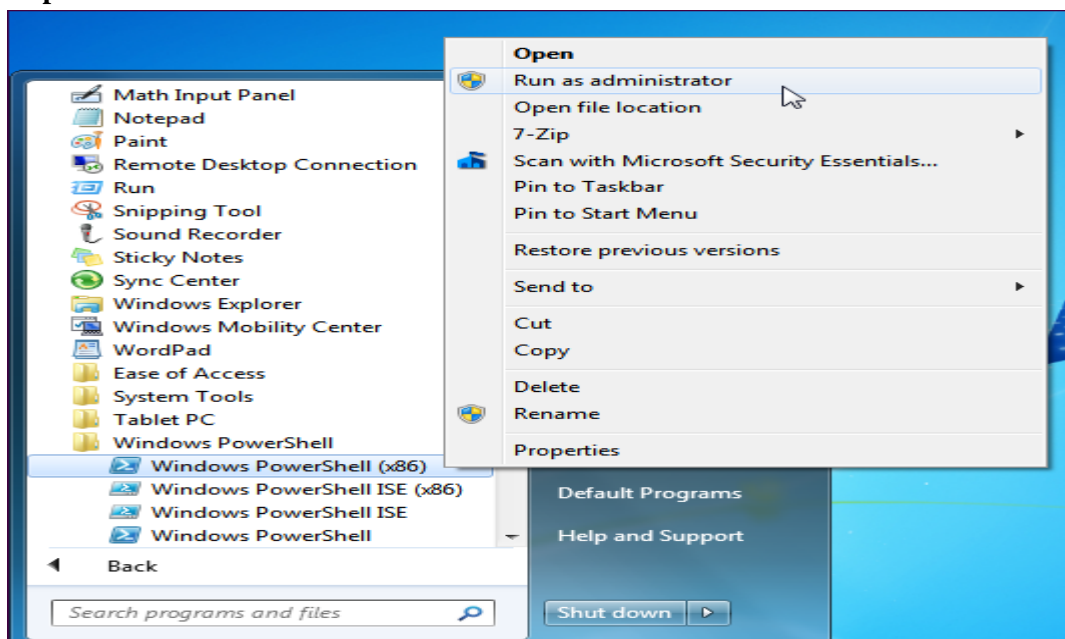   - ✓ **Powershell 2.0**
   - ✓ **WinRM 3.0**
   - ✓ **IIS 6.0**
   - ✓ **Task Scheduler 2.0**
   - ✓ **.NET Framework 4.0**
   - ✓ **FireBird 2.5**

   Assumptions: -
   - ✓ All VMs have WINRM running on it.
   - ✓ All VMs have Hyper-V Integrated services installed on them.
   - ✓ All VMs have same username and Password.
   - ✓ Firebird database present on server

2) Configure Client Machine & Hyper-V Server Machine:

Step 1:- Start Powershell

Step 2:- Enter these two commands,

```
Set-ExecutionPolicy Unrestricted
Enable-PSRemoting –force
```

Step 3:- Configure trusted host settings , by typing following command :

```
Set-item WSMan:\localhost\Client\TrustedHosts *
```

Step 4:- Restart WinRM service

```
     Restart-Service WinRM
```
Step 5:- Test Connection using
```
     Test-WsMan COMPUTER_NAME
```

3) Create Firebird Database on Server Machine :-

Create Database *DB_NAME*;

Create table history(
 Hyperv_name varchar2(100),
 VMname varchar2(100),
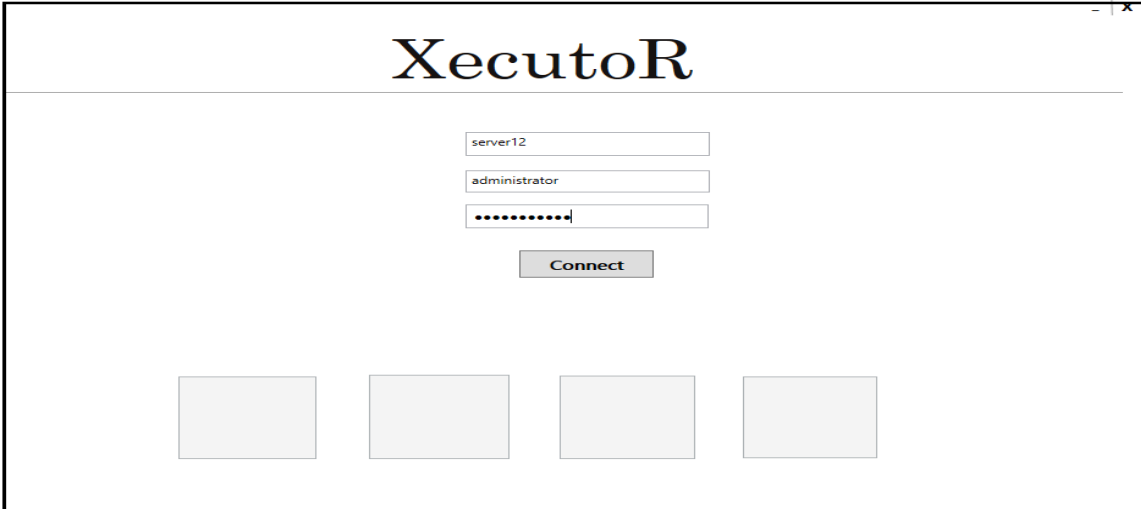 Filename varchar2(50),
 Action varchar2(50),
 StartTime varchar2(100),
 Status varchar2(100));

4) Setting up IIS Server :

- ✓ Configure IIS Server without username and password hosting files in different virtual directories and give link to required virtual directory in application.
- ✓ Create a sub_folder in IIS directory named ps_script containing all required scripts. e.g run_script.ps1(required to install files on remote machine)

2) Authentication:

User needs to enter the credentials at this step. Credentials include HyperV Name, Machine name and Password. If the credentials match, user id directed to the Landing Page, else and error message is displayed at this stage. The user is prompted again to type in the necessary details.

3) Landing Page:
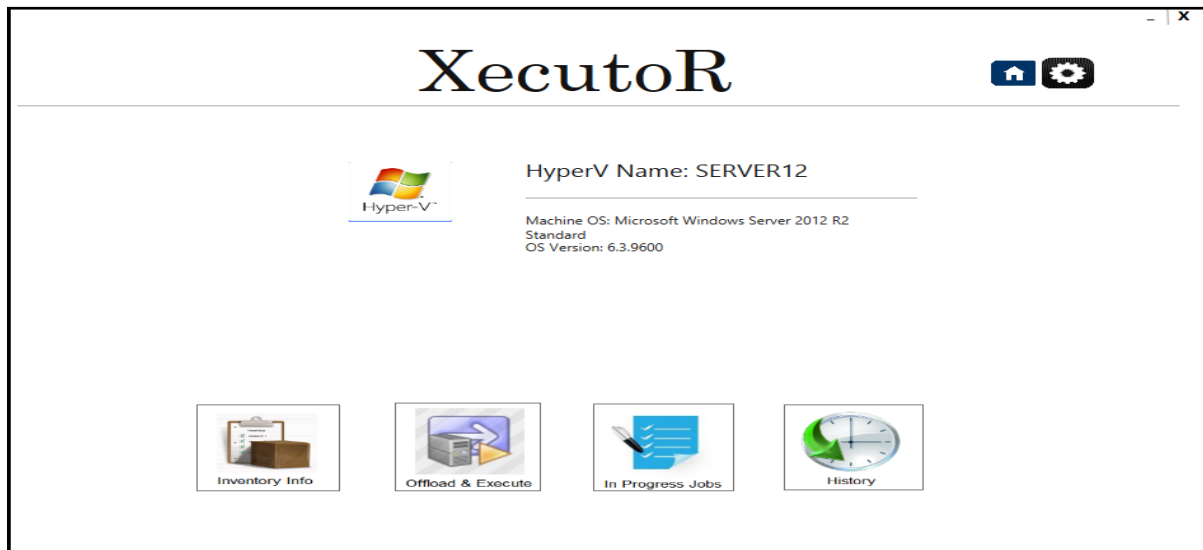
This screen displays details about the HyperV to which the user is connected. It displays the information regarding the HyperV name, Operating System of Machine and the Operating System Version. Also the functionality tabs gets activated.
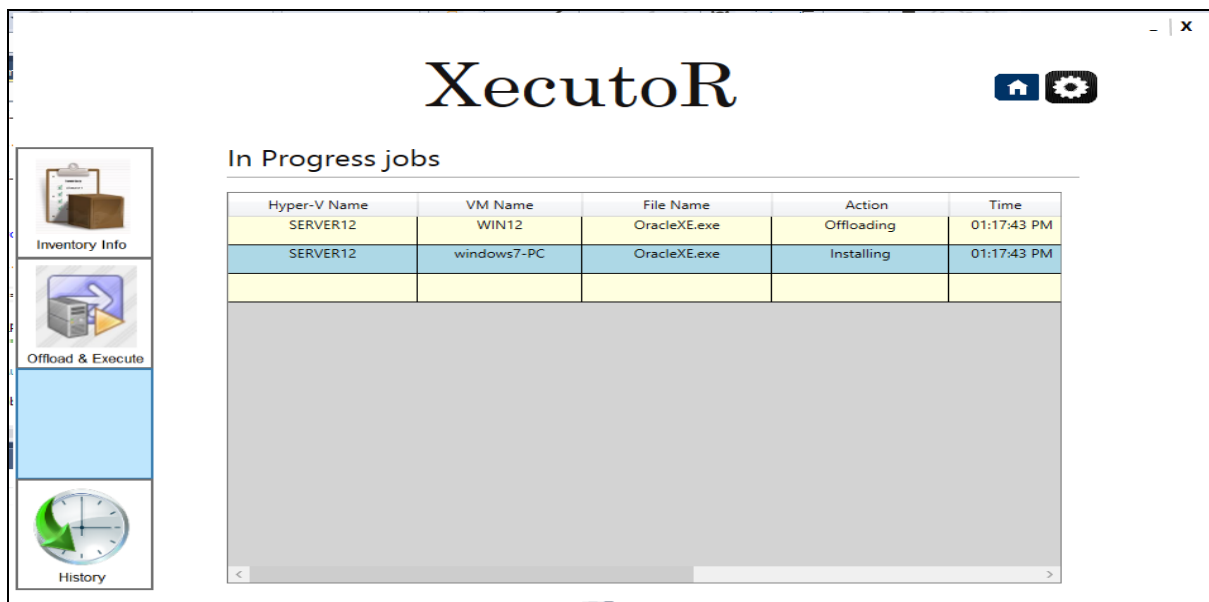
4) Inventory Info:
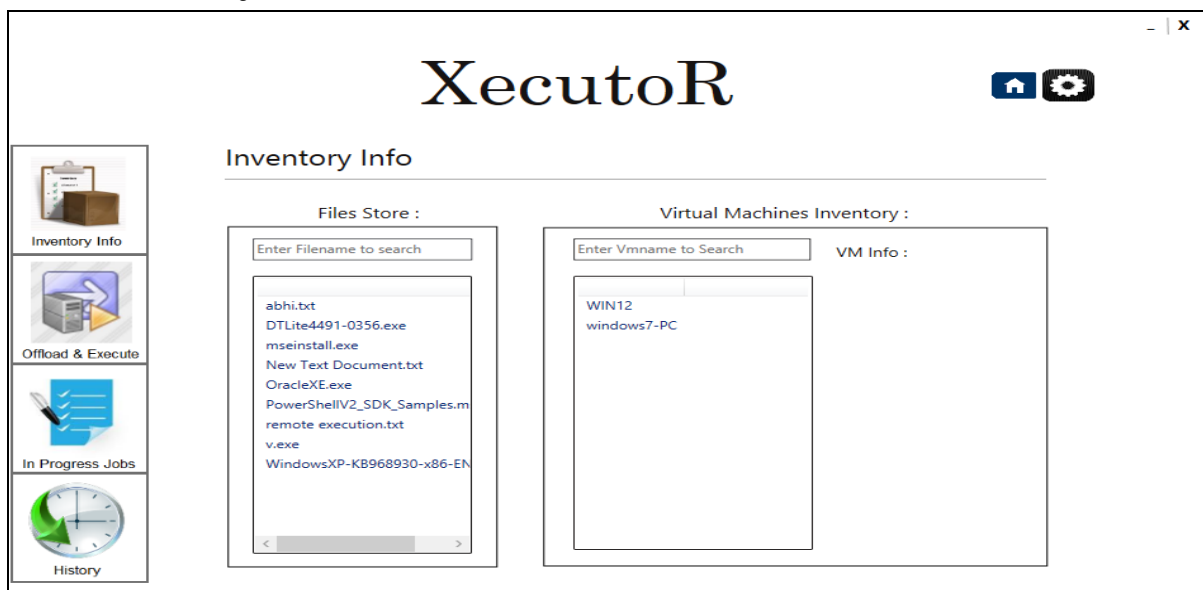
The Inventory Info page is divided into two parts. The first part displays the files on the Files Store. The second part displays the Virtual Machines present on the connected HyperV. It also displays some additional information about the VMs. Also, the tabs get aligned to extreme left of the screen.

5) Offload and Execute:
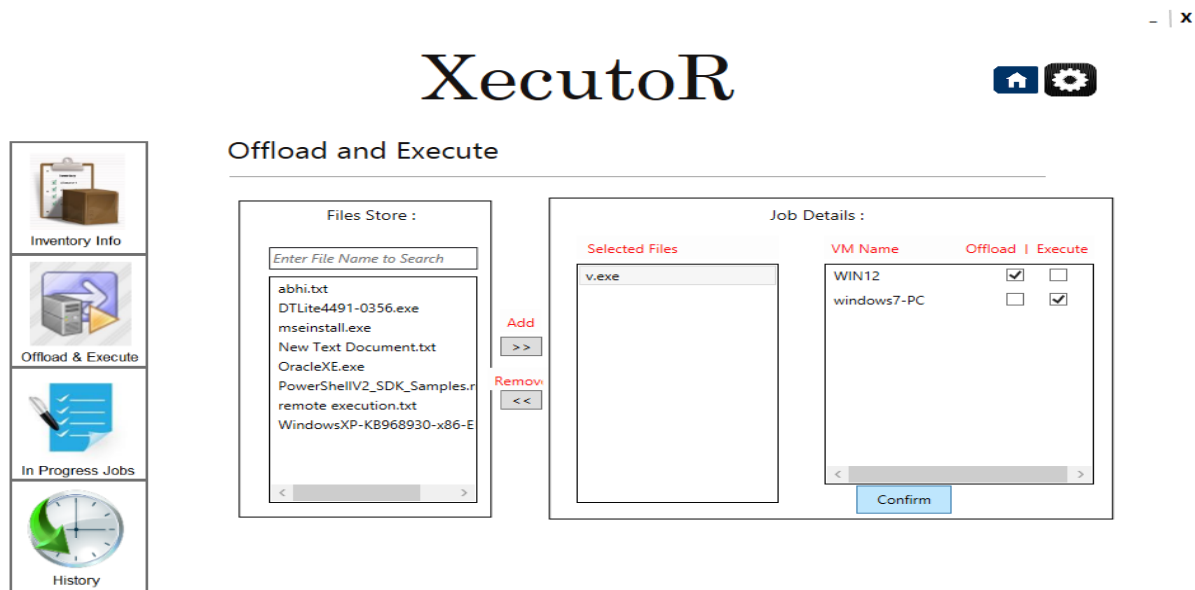
This page allows the user to select the exes and VMs onto which the files are to be Offloaded and Executed. Again the whole screen is divided into two main parts, the Files Store and the Job Details. The Files Store displays the files available on the IIS Server. In Job Details part, User is supposed to add files to be offloaded/ executed into the adjoining box and specify the job to be done on the each of the VMs.

6) In-progress Jobs:

This screen displays the submitted jobs which are in progress. It displays the records in a data grid. Each record essentially contains HyperV name, VM name, File Name, Action and Time at which the job was submitted.

7) History :

This screen displays historical representation of Hyper-v, files and virtual machines. Date and Timestamp of files offloaded and installed. It stores and displays the status of operations (offload, install) i.e. successful, failed and error occurred.