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How to Configure Paragon uEFI iSCSI Target

Quick User Guide

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Intro

This guide will help you create and properly configure a bootable flash stick with an iSCSI target.

Prerequisites

1. A uEFI-based computer that accommodates Windows XP or higher;
2. An Intel Pro Series network card or an uEFI driver for any other network card;
3. A USB flash stick formatted to FAT.

Installation and Setup

1. Our product is distributed in form of a .zip archive, which you should extract first.
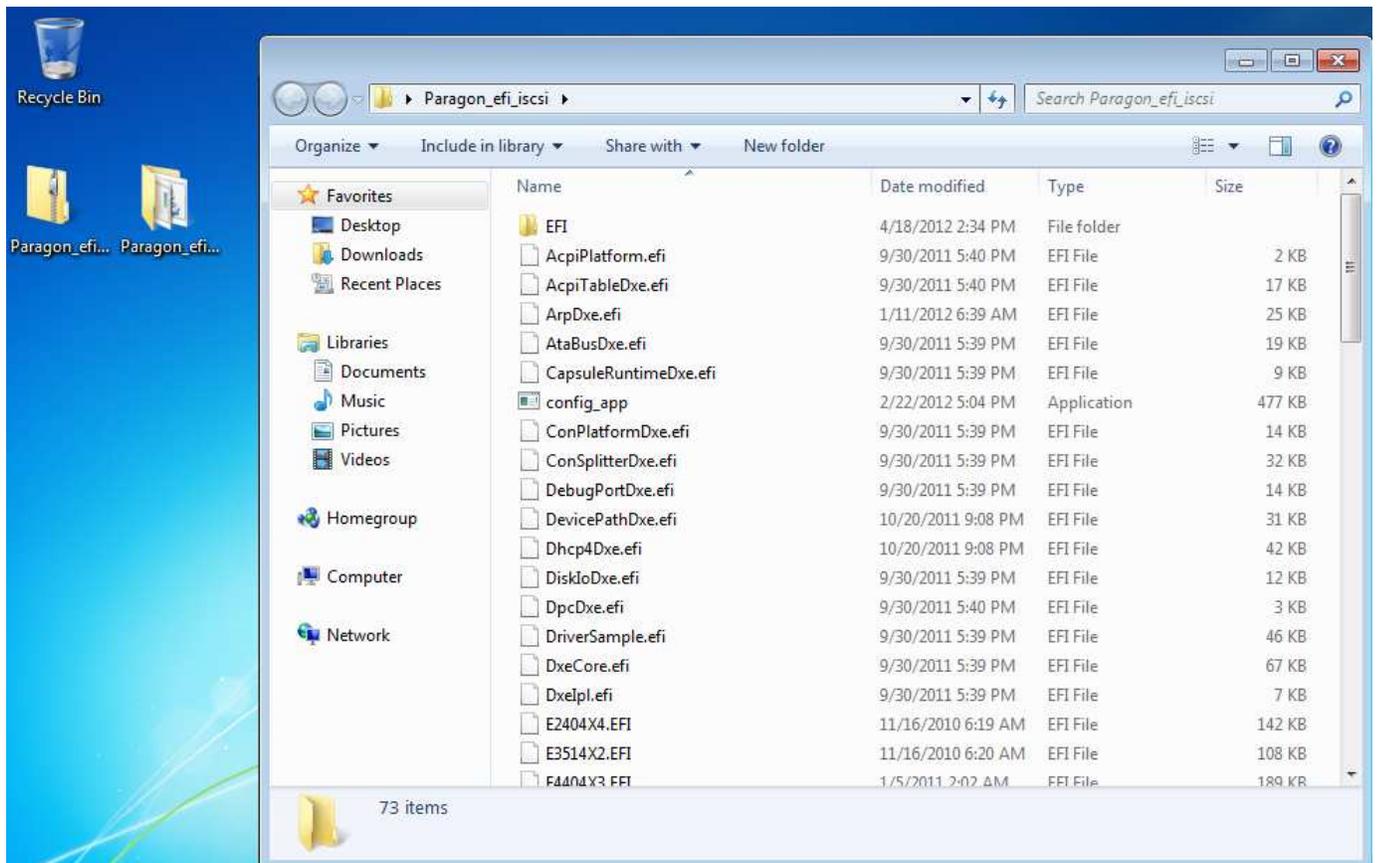
2. When done, open **Command Prompt** as an Administrator.
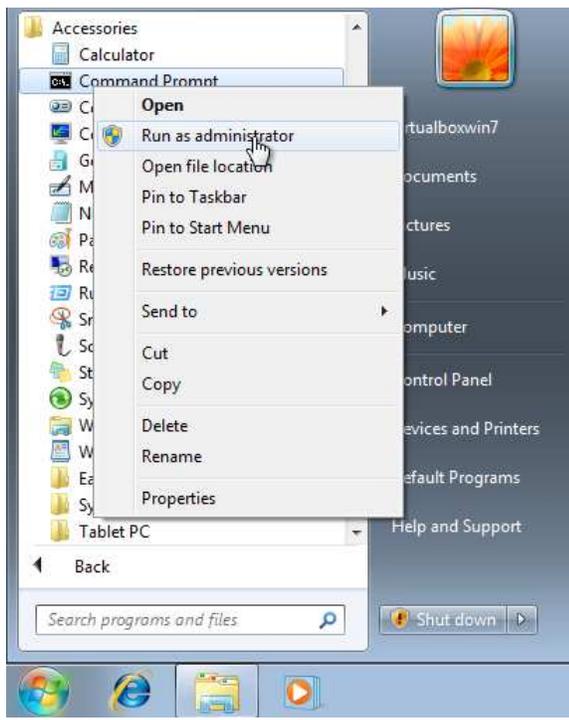
3. Run **escsicfg.bat**. It's a script that will configure iSCSI Target to work with a certain disk and network interface. To see its output, type in "**escsicfg.bat --show**".

4. To create a bootable flash stick, type in "**escsicfg.bat --install <driver letter:> <disk number> <network interface number>**", where:
   - **drive letter:** – a drive letter that is assigned to your flash stick by OS;
   - **disk number** – a number of the required disk obtained by the "**escsicfg.bat --show**" command;

- **network interface number** – a number of a network interface to use obtained by the "**escscicfg.bat --show**" command. Note: Network settings will be imported to the configuration file.
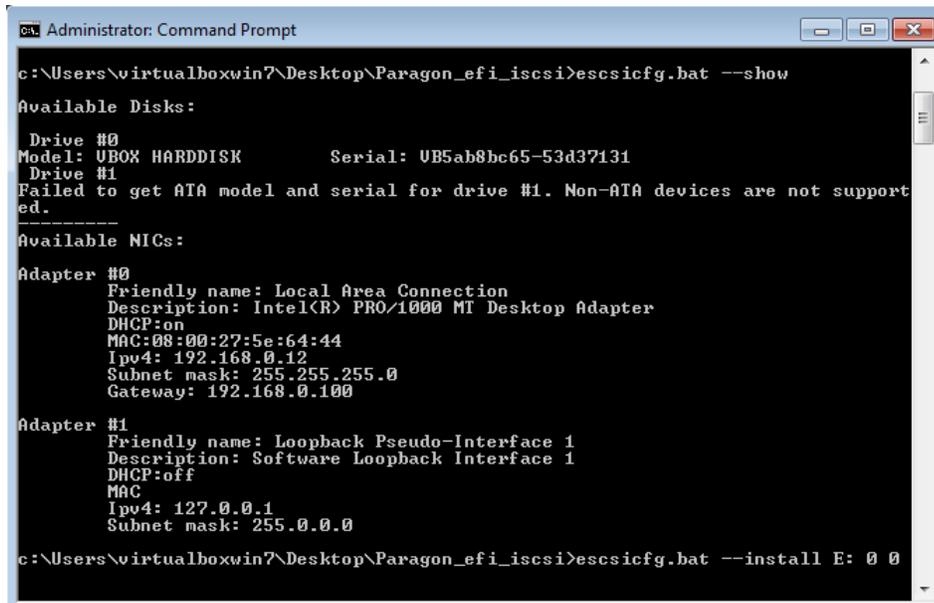
```
Administrator: Command Prompt                                                    _  □  ✕

c:\Users\virtualboxwin7\Desktop\Paragon_efi_iscsi>escsicfg.bat --show

Available Disks:

 Drive #0
Model: VBOX HARDDISK           Serial: VB5ab8bc65-53d37131
 Drive #1
Failed to get ATA model and serial for drive #1. Non-ATA devices are not support
ed.
----------
Available NICs:

Adapter #0
        Friendly name: Local Area Connection
        Description: Intel(R) PRO/1000 MT Desktop Adapter
        DHCP:on
        MAC:08:00:27:5e:64:44
        Ipv4: 192.168.0.12
        Subnet mask: 255.255.255.0
        Gateway: 192.168.0.100

Adapter #1
        Friendly name: Loopback Pseudo-Interface 1
        Description: Software Loopback Interface 1
        DHCP:off
        MAC
        Ipv4: 127.0.0.1
        Subnet mask: 255.0.0.0

c:\Users\virtualboxwin7\Desktop\Paragon_efi_iscsi>escsicfg.bat --install E: 0 0
```

5. The script will start copying files to the flash stick.
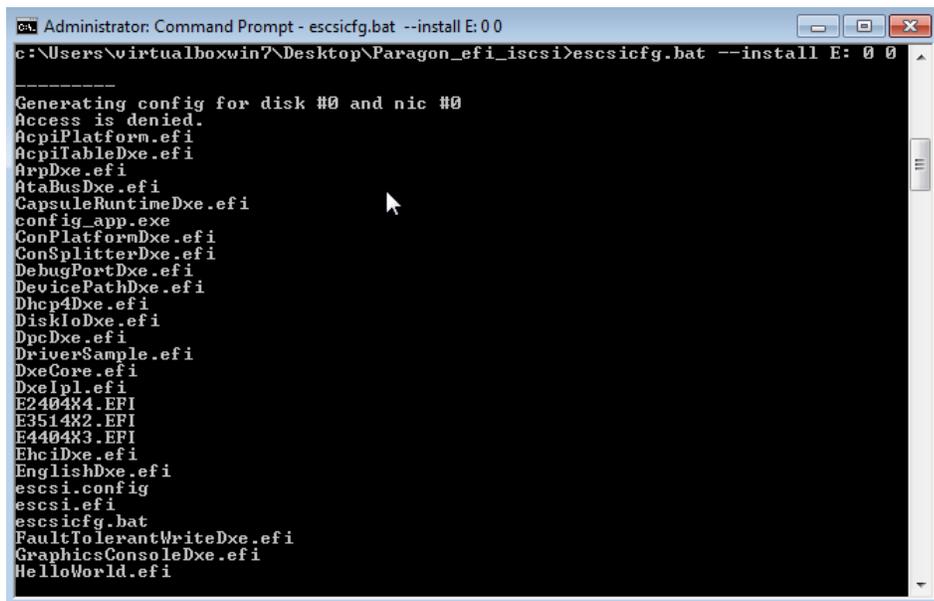
```
Administrator: Command Prompt - escsicfg.bat --install E: 0 0                     _  □  ✕

c:\Users\virtualboxwin7\Desktop\Paragon_efi_iscsi>escsicfg.bat --install E: 0 0
----------
Generating config for disk #0 and nic #0
Access is denied.
AcpiPlatform.efi
AcpiTableDxe.efi
ArpDxe.efi
AtaBusDxe.efi
CapsuleRuntimeDxe.efi
config_app.exe
ConPlatformDxe.efi
ConSplitterDxe.efi
DebugPortDxe.efi
DevicePathDxe.efi
Dhcp4Dxe.efi
DiskIoDxe.efi
DpcDxe.efi
DriverSample.efi
DxeCore.efi
DxeIpl.efi
E2404X4.EFI
E3514X2.EFI
E4404X3.EFI
EhciDxe.efi
EnglishDxe.efi
escsi.config
escsi.efi
escsicfg.bat
FaultTolerantWriteDxe.efi
GraphicsConsoleDxe.efi
HelloWorld.efi
```

6. When over, you'll get a bootable flash stick.
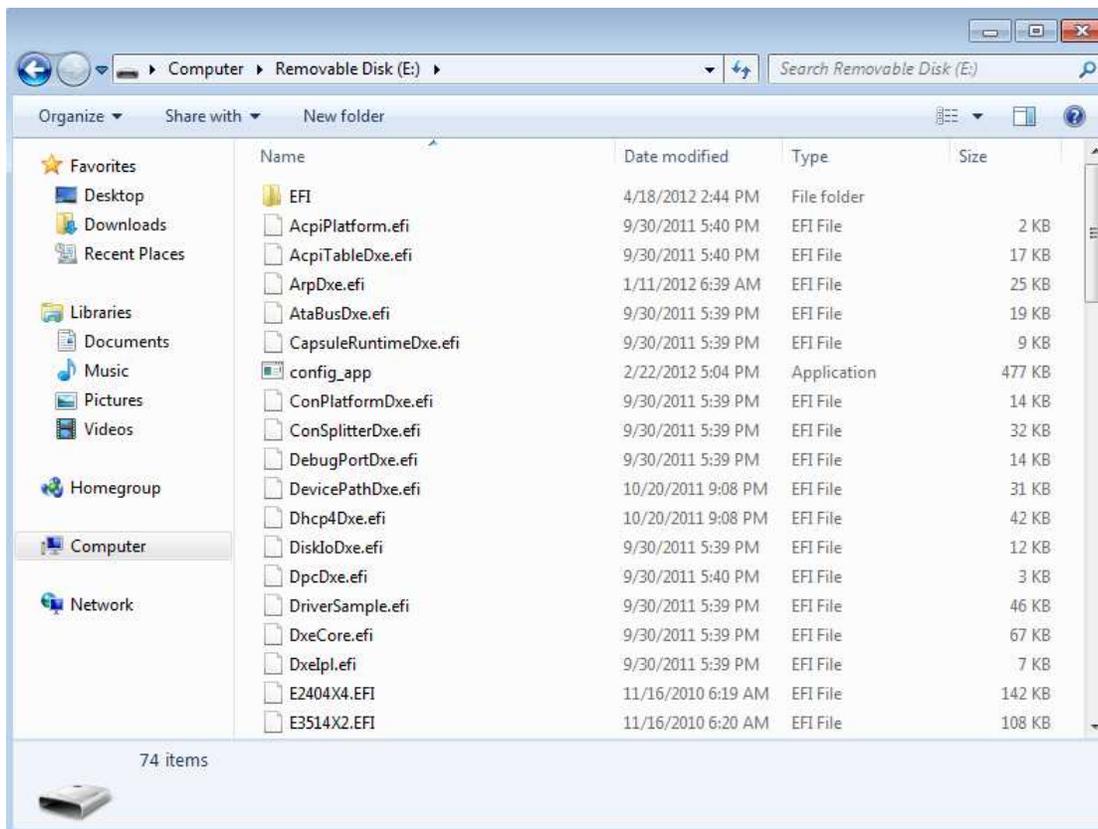
Launching Paragon uEFI iSCSI Target

1. Start up your uEFI-based computer from the prepared flash stick (to know how to select a flash stick as the first boot device, please consult documentation of your motherboard). You should see the following message:


```
Press <ESC> to start the next firmware boot option
  Press any other key to load Paragon iSCSI MiniTarget
```

2. Press any button but ESC to launch Paragon uEFI iSCSI Target. Save an IP address, as it's needed to set up iSCSI Initiator.

Connecting Paragon uEFI iSCSI Target through MS iSCSI Initiator

Microsoft iSCSI Initiator is available for all editions of Windows OS since XP. You can download it for Windows XP directly from Microsoft's website free of charge.

1. Open **Command Prompt** as an Administrator.
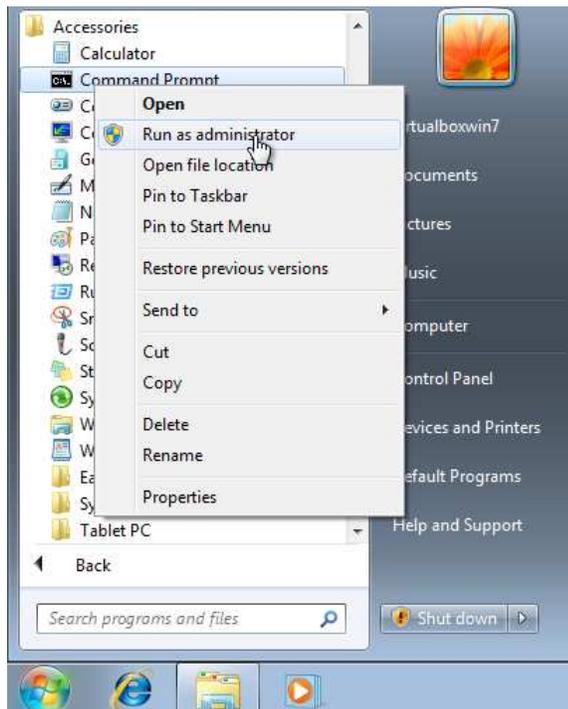
2. Run **iscsicli**.
3. Add a new iSCSI target by using "**QAddTarget <target name> <target IP>**", where:

- **target name** – name of Paragon's target (can be used any name at this stage);
- **target IP** – an IP address of Paragon's target.

4. Connect to Paragon's iSCSI Target by using "**QLoginTarget <target name>**"

5. As a result you should have a new iSCSI disk in the system. Congratulations you have successfully connected to Paragon uEFI iSCSI Target!