



# NVIDIA DIGITS DEVBOX SOFTWARE UPDATE GUIDE

DA-08547-001 \_v01 | October 2017

**DIGITS DEVBOX SOFTWARE UPDATE GUIDE**



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# Chapter 1.

## UPDATING THE DIGITS DEVBOX TO DIGITS 5

The following instructions describe an over-the-network method of updating the software on the NVIDIA® DIGITS Devbox to DIGITS 5.

### 1.1. Disabling Secure Boot

During the software update process, the Linux kernel is also updated. Newer Linux kernels respect Secure Boot settings in the BIOS, which means that if Secure Boot is enabled, you may not be able to access the Ubuntu desktop upon booting the system.

The simplest way to ensure that you will be able to boot the DIGITs DevBox after the software update is to disable Secure Boot before performing the update.

Use the mokutil utility to check whether Secure Boot is enabled in the BIOS.

```
~$ mokutil --sb-state
```

If Secure Boot is enabled, then disable it in the BIOS using the following steps.

1. Restart the DevBox and press the **DEL** key to open the ASUS UEFI BIOS Utility.
2. Press **F7** to enter Advanced Mode.
3. Navigate to **Boot** from the top menu, then scroll down and select **Secure Boot**.
4. In the Secure Boot screen, scroll down and select **Key Management**.
5. In the Key Management screen, scroll down and select **Delete PK**.  
DO NOT DELETE OTHER KEYS.
6. At the confirmation screen, select **Yes**.
7. Press **F10** to save changes and exit, then select **OK** to reboot the DevBox.

### 1.2. Updating the Software

#### Disclaimers

- ▶ This procedure disables the CUDA repository. CUDA is now available through the DevBox repo to ensure compatibility.
- ▶ This procedure disables repositories that you may have installed manually, such as the nvidia-machine-learning repo. The software will be provided to you through the DevBox repo.

## Instructions

1. Make sure your DIGITS DevBox is connected to the internet.
2. After booting the DevBox, open a terminal window.
3. Update the CUDA repository.

```
$ sudo sed -i -e "s,deb http://developer.download.nvidia.com/compute/cuda/
repos/ubuntu1404/x86_64 /, #deb http://developer.download.nvidia.com/compute/
cuda/repos/ubuntu1404/x86_64 /," /etc/apt/sources.list
```

4. Remove the machine learning repository if you have the package on your DevBox. To check whether you have this package, enter the following.

```
$ apt-cache show nvidia-machine-learning-repo
```

You can also check to see if you have the file `/etc/apt/sources.list.d/nvidia-machine-learning-repo.list`.

Enter the following if you have the machine learning packages, otherwise skip to step 5.

```
$ sudo dpkg --purge nvidia-machine-learning-repo-ubuntu1404
```

```
$ sudo dpkg --purge nvidia-machine-learning-repo
```

5. Update the DIGITS DevBox software.

```
$ sudo apt-get update && sudo apt-get dist-upgrade
```

```
$ sudo reboot
```

**Optional :** You can verify that the DIGITS packages have been updated to CUDA 8.0.61, Caffe version 15.3, cuDNN 5.1.10, torch7-nv 0.9.99, and DIGITS 5.

```
$ dpkg -l {caffe-nv,digits,torch7-nv,cuda,libcudnn5}
```

If needed, individual packages can be installed with the following command.

```
$ sudo apt-get install digits cuda torch7-nv caffe-nv
```

```
$ sudo reboot
```

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