

Downgrade the Linux kernel on an Azure Ubuntu VM

 danielstechblog.io/downgrade-the-linux-kernel-on-an-azure-ubuntu-vm

Sometimes it might be that you need to downgrade the Linux kernel on an Azure Ubuntu VM.

Especially when you use Azure Site Recovery for BCDR. As the ASR agent has a slight delay on supporting the latest Linux kernel versions.

-> <https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-support-matrix#supported-ubuntu-kernel-versions-for-azure-virtual-machines>

Ubuntu was one of the first Linux distributions offering an Azure-optimized kernel. Since then the Azure-optimized kernel has been the default one for Ubuntu VMs on Azure installed by the official Azure Marketplace images.

The first step is to identify the necessary packages that you need to install. This is done by executing the following command.

```
> sudo apt search linux-azure | grep 5.3.0-1009-azure
```

Afterward, you know which packages need to be installed.

```
> sudo apt install linux-image-5.3.0-1009-azure \  
linux-tools-5.3.0-1009-azure \  
linux-cloud-tools-5.3.0-1009-azure \  
linux-headers-5.3.0-1009-azure \  
linux-modules-5.3.0-1009-azure \  
linux-modules-extra-5.3.0-1009-azure
```

In the next step, the actual kernel gets removed.

As I did my demo with Ubuntu 18.04 on Azure, I experienced that it is required to add the unsigned kernel image package to the removal list. Otherwise apt installs it during the removal process of the actual kernel.

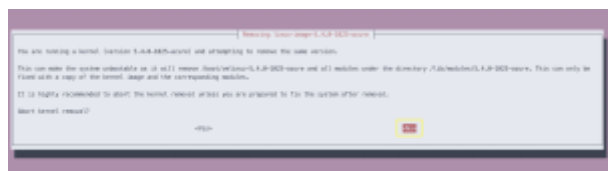
```
> sudo apt remove linux-headers-5.4.0-1025-azure \  
linux-image-5.4.0-1025-azure \  
linux-image-unsigned-5.4.0-1025-azure
```

During the process, you confirm with <No> that you do not want to abort the removal process.

As the last step, you initiate a reboot with

```
sudo reboot
```

The welcome screen should now state the target kernel version.



```
Welcome to Ubuntu 18.04.5 LTS [GNU/Linux 5.3.0-1009-azure x86_64]

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Fri Sep 11 21:06:50 UTC 2020

System load:  0.55               Processes:            126
Usage of /:   5.1% of 28.9GB     Users logged in:     0
Memory usage: 2%                IP address for eth0: 10.0.0.4
Swap usage:   0%

0 packages can be updated.
0 updates are security updates.
```