



## RHEL Kernel Panic

### *Products Affected*

HPE® FlexFabric 10Gb 4-port FLR-T 57840S Adapter
HPE CN1100R Dual Port Converged Network Adapter
HPE CN1100R-T Converged Network Adapter
HPE FlexFabric® 10Gb 2-port 534M Adapter
HPE FlexFabric 20Gb 2-port 630FLB Adapter
HPE FlexFabric 20Gb 2-port 630M Adapter
HPE FlexFabric 10Gb 2-port FLR-T 57810S Adapter
HPE FlexFabric 10Gb 2-port FLR-SFP+ 57810S Adapter
HPE FlexFabric 10Gb 2-port 536FLB Adapter
HPE Synergy 2820C 10Gb Converged Network Adapter
HPE Synergy 3820C 10/20Gb Converged Network Adapter

## Introduction

This application note describes a situation where a kernel panic occurs after the installation of Red Hat® Enterprise Linux® if configured for hardware iSCSI offload boot, unless the Linux network interface `ifcfg` scripts are modified for certain network adapters.

## Scope

This application note affects any HPE server configured with any of the network adapters listed in the Products Affected table.

## Description

On an HPE server configured with any of the network adapters listed in the Products Affected table and configured for hardware iSCSI offload boot, Red Hat Enterprise Linux 7 and Red Hat Enterprise Linux 6 will kernel panic instead of boot after the installation.

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The kernel panic occurs because the network adapter is configured for hardware offload iSCSI boot and Linux is attempting to boot from the iSCSI LUN.

## Workaround

At the end of the Red Hat Enterprise Linux 6 or Red Hat Enterprise Linux 7 installation, perform the following steps:

1. Before clicking the reboot button at the end of installation, go to the shell terminal using the following key combination:

**CTRL+ALT+F2**

2. Type the following command to determine which network interface `ifcfg` scripts need to be modified for the `ONBOOT` and `NM_CONTROLLED` settings:

```
iscsiadm -m fw
```

3. Edit the network interface `ifcfg` files displayed in `/etc/sysconfig/network-scripts`:

- a. Set `ONBOOT` to **yes**.
- b. Set `NM_CONTROLLED` to **no**.

4. Save the changes and reboot the server.

The first boot continues as expected. During the first boot, if `kdump` is configured, the installation may prompt you to reboot. *Do not* reboot; instead, boot to Linux.

5. Perform [Step 1](#) through [Step 3](#) again. Save the changes and reboot the server.

Linux will boot as expected.

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**Document Revision History**

Revision A, June 7, 2017

Revision B, August 17, 2019

Revision C, May 3, 2021

**Changes**

Re-brand to new Marvell logo/template.

Removed references to StoreFabric®.

In the Products Affected table:

Removed 536FLR-T Adapter/

Removed 533FLT-T Adapter.

Removed 534FLR-SFP+ Adapter.

Added FLR-T 57840S Adapter.

Added FLT-T 57810S Adapter.

Added FLR-SFP+ 57810S Adapter.

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