Document Revision History

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Rev 4.5.1 – March 01, 2024

N/A

Rev 4.5.0 – December 12, 2023

Added:

- Section "Updating Software Using Redfish"

- Section "Sanitizing DPU eMMC and SSD Storage"

- Section "How to perform graceful shutdown"

- Section "BFB installation monitoring"

Updated:

- Page "Updating DPU Software Packages Using Standard Linux Tools"

- Section "RShim Logging"

- Section "NIC Mode"

- Section "Enabling OVS-DPDK Hardware Offload"

- Section "Enabling IPsec Packet Offload"

- Section "Setting IPSec Packet Offload Using strongSwan"

- Section "Running strongSwan Example"

- Section "Building strongSwan"

- Section "IPsec Packet Offload and OVS Offload"

Rev 4.2.2 – October 24, 2023

Updated:

- Section "NIC Mode"

Rev 4.2.0 – August 10, 2023

Updated:

- Step 3 under section "PXE Server Preparations"

- Section "Removing Previously Installed DOCA Runtime Packages"

- Section "NIC Mode"

- Sections "Connection Tracking With NAT" and "Querying Connection Tracking Offload Status" with conntack command for Ubuntu 22.04 kernels

- Section "LAG Configuration"

- Section "SystemD Service"

- Page "QoS Configuration"

- Section "bf.cfg Parameters"

Rev 4.0.2 – May 08, 2023

Added:

- Page "SoC Management Interface"

- Page "Legal Notices and 3rd Party Licenses"

- Section "Unable to load BL2, BL2R, or PSC image"

Updated:

- Section "Default Ports and OVS Configuration" with new step 2

- Section "BlueField Linux Drivers" with `gpio-mlxbf3`, `mlxbf-ptm`, `pwr-mlxbf`, and `pinctrl-mlxbf`

- Page "Updating DPU Software Packages Using Standard Linux Tools"

- Page "UEFI Secure Boot"

- Section "IPsec Hardware Offload: Full Offload" with Canonical note

- Section "How to upgrade ConnectX firmware from Arm side"

- Section "VirtIO-net PF Device Configuration" by removing `ECPF_ESWITCH_MANAGER` and `ECPF_PAGE_SUPPLIER` from step 4

- Section "Virtio-net SR-IOV VF Device Configuration" by removing `ECPF_ESWITCH_MANAGER` and `ECPF_PAGE_SUPPLIER` from step 7.b

- Section "vDPA over VirtIO Full Emulation"

Rev 3.9.3 – November 02, 2022

Added:

- Section "DHCP Client Configuration"

- Section "Updating DPU Software Packages Using Standard Linux Tools"

- Section "Creating Transitional Hotplug VirtIO-net PF Device"

- Section "Transitional VirtIO-net VF Device Support"

Updated:

- Section "Upgrading Boot Software" by specifying that the "Reset EFI Variables" action also wipes the BOOT option variables and secure boot keys

- Section "BlueField Linux Drivers"

- Section "Configuring Uplink MTU"

- Section "Disabling Host Networking PFs" by adding instructions for reactivating host networking for single-port DPUs

- Section "Configuring RegEx Acceleration on BlueField-2"

- Section "Virtio-net SR-IOV VF Device Configuration"

- `PXE_DHCP_CLASS_ID` in section "bf.cfg Parameters"

Removed:

- Step 7 in section "Configuring Host Server Side"

- Separated Mode from "Modes of Operation"

Rev 3.9.2 – August 02, 2022

Added:

- Section "Updating NVConfig Params"

- Page "System Configuration and Services"

- Section "Enrolling New NVIDIA Certificates"

- Section "bf.cfg Parameters"

- Support for OpenSSL version 3.0.2 in section "PKA Use Cases"

- Section "How to change the default network configuration during BFB installation"

Updated:

- Section "Firmware Upgrade"

- Section "Customizations During BFB Installation"

- Section "UEFI System Configuration"

- Page "Host-side Interface Configuration"

- Section "Enrolling Certificates Using Capsule"

- Section "NIC Mode" with supported MLNX_OFED versions

- Section "PKA Use Cases" with support for OpenSSL version 3.0.2

Rev 3.9 – May 03, 2022

Added:

- Section "GRUB Password Protection"

- New note under step 2 in section "Default Ports and OVS Configuration"

- Section "BlueField Linux Drivers"

- Canonical db certificate to section "Existing DPU Certificates"

- New note under section "Enrolling Certificates Using Capsule"

- New power cycle note under section "Enabling Host Restriction"

- New power cycle note under section "Disabling Host Restriction"

- Section "NIC Mode"

- Section "LAG on Multi-host"

- New power cycle note under section "Disabling Host Networking PFs"

- Section "PKA Prerequisites"

- Section "OVS IPsec"

- Section "Rate Limiting VF Group"

- Note to section "User Frontend"

- Section "Controller Live Update"

Updated:

- Code block in section "Customizations During BFB Installation"

- Section "Building Your Own BFB Installation Image"

- Section "Configuring VXLAN Tunnel"

- Step 2 in section "Prerequisites"

- Section "Enabling IPsec Full Offload"

- Code block under step 1 in section "LAG Configuration"

Rev 3.8.5 – January 19, 2022

Added:

- Section "Another backend already attached"

Updated:

- Section "Ensure RShim Running on Host"

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