

# Open vSwitch and OVN 2022 Fall Conference

Chris Wright  
CTO & SVP of Global Engineering

Keynote Address  
9:00 AM Eastern

# We've come a long way

openvswitch / ovs Public

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### Update FSF address in LGPL notices in bugtool plugins.

This quiets the rpmlint errors:

```
E: incorrect-fsf-address /etc/openvswitch/bugtool-plugins/system-configuration/openvswitch.xml
E: incorrect-fsf-address /etc/openvswitch/bugtool-plugins/system-logs/openvswitch.xml
E: incorrect-fsf-address /etc/openvswitch/bugtool-plugins/system-configuration.xml
E: incorrect-fsf-address /etc/openvswitch/bugtool-plugins/network-status/openvswitch.xml
E: incorrect-fsf-address /etc/openvswitch/bugtool-plugins/kernel-info/openvswitch.xml
```

Signed-off-by: Chris Wright <chrisw@sous-sol.org>  
Signed-off-by: Ben Pfaff <blp@nicira.com>

master  
v3.0.1 ... v1.5.0

chriswright authored and blp committed on Dec 9, 2011

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### datapath: Fix RHEL compat for netdev\_rx\_handler\_register

Andrei Andone reported an oops on CentOS 6.4 when adding a device to an ovs instance. The problem is easy to reproduce and generates the following stack trace:

```
kernel tried to execute NX-protected page - exploit attempt? (uid: 0)
BUG: unable to handle kernel paging request at ffff88033afa49c0
IP: [] 0xffff88033afa49c0
...
Call Trace:
<IRQ>
[<ffffffff814487ba>] ? __netif_receive_skb+0x60a/0x750
[<ffffffff81055f96>] ? enqueue_task+0x66/0x80
[<ffffffff8144aa38>] netif_receive_skb+0x58/0x60
[<ffffffff8144ab40>] napi_skb_finish+0x50/0x70
[<ffffffff8144d0e9>] napi_gro_receive+0x39/0x50
[<ffffffffffa025f46c>] igb_poll+0x7ec/0xc70 [igb]
[<ffffffff810e6881>] ? cpu_quiet_msk+0xc1/0x130
...
```

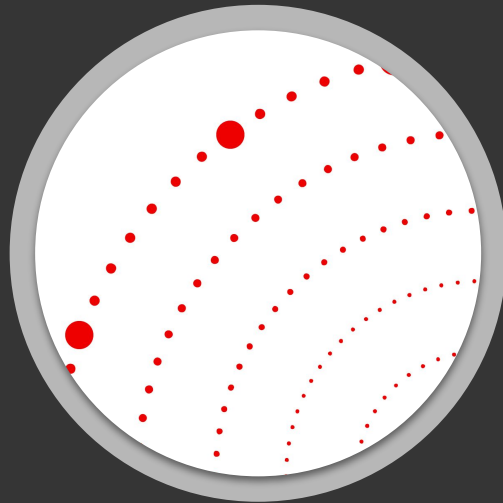
As you can see, we jumped to data rather than code. This is caused by a mistake in the compat code for netdev\_rx\_handler\_register which sets the handler to rx\_handler\_data rather than rx\_handler. This was introduced by commit "3e35fe3 datapath: rhel: Move RHEL OVS hook registration to netdev\_rx\_handler\_register() backport".

Reported-by: Andrei Andone <andrei.andone@softvision.ro>  
Signed-off-by: Chris Wright <chrisw@sous-sol.org>  
Cc: Thomas Graf <tgraf@redhat.com>  
Cc: Pravin Shelar <pshelar@nicira.com>  
Acked-by: Kyle Mestery <kmestery@cisco.com>  
Reviewed-by: Thomas Graf <tgraf@redhat.com>  
Signed-off-by: Pravin B Shelar <pshelar@nicira.com>

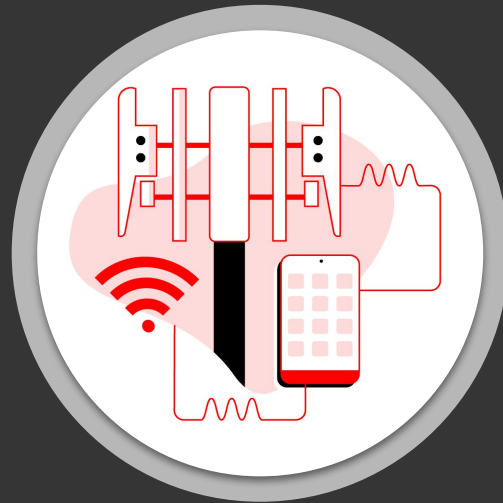
master  
v3.0.1 ... v2.0

chriswright authored and Pravin B Shelar committed on Aug 13, 2013

# OVS OVN is a critical path for Red Hat's hybrid strategy



Edge and  
distributed devices



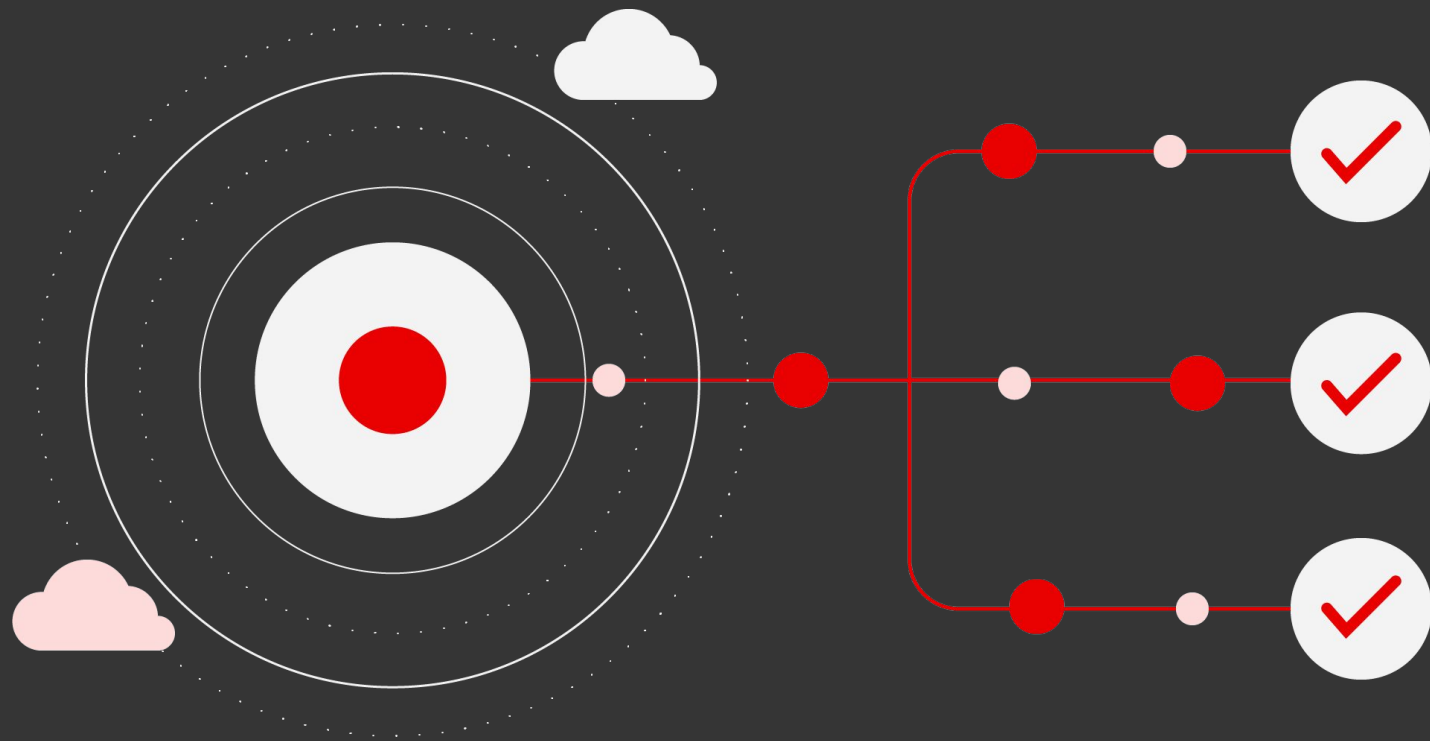
Network connection  
and telco



Datacenter and  
public cloud

Let's talk about  
how we are making  
**progress...**

...from AWS, to  
Azure, to OSP, to  
OCP–OVN and  
OVS **keep working.**



Hardware offload improvements

SmartNICs have evolved

Joint development upstream and downstream

# It's not just Red Hat—it's a community

**OVS**

---

863 commits  
over the last  
18 months—447  
from Red Hat

**OVN**

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750 commits  
over the last  
18 months—486  
from Red Hat



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These are the  
people and  
communities who  
drive innovation

Open source is the  
**innovation engine**  
for the industry.



# Thank you

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