Install: Open vSwitch (OVS)

Here are the steps to get Open vSwitch loaded up from source (don't let that scare you, we are still going to use RPMs).
There are other directions out there. Now, this will be one of them.

NOTE: I have included some cleanup actions and some manual dependency installs. Just use what you need if not all of it.

```
# REMOVE OVS IF INSTALL WITH DISTRO PACKAGES
systemctl stop openvswitch && systemctl disable openvswitch
systemctl stop ovs-vswitchd && systemctl disable ovs-vswitchd
systemctl stop ovsdb-server && systemctl disable ovsdb-server


dnf remove openvswitch* *openvswitch -y


rm -f /etc/sysconfig/openvswitch
rm -fR /etc/openvswitch*
rm -fR /var/run/openvswitch*
rm -fR /var/log/openvswitch*
```

```
# CLONE OVS SOURCE FROM GITHUB
cd /opt
git clone https://github.com/openvswitch/ovs.git

# ENABLE IPROUTING
cat > /etc/sysctl.d/iprouting.conf << "EOF"
net.ipv4.ip_forward=1
net.ipv4.conf.all.rp_filter = 2
EOF
```

```
# CLEANED UP OLD PACKAGES, DNF CACHE, AND INSTALL DEPS
dnf autoremove
dnf clean all
dnf makecache


# REMOVED OLD KERNELS
```

```
dnf remove --oldinstallonly --setopt installonly_limit=2 kernel -y


# REINSTALLED LATEST KERNEL AND MODULES
dnf reinstall kernel kernel-core kernel-modules -y


# INSTALLED DEV TOOLS AND BUILD PACKAGES
dnf install @'Development Tools' dnf-plugins-core rpm-build make automake -y


# INSTALLED DEPS
dnf install python3-six python3-sphinx libunwind-devel unbound-devel \
libpfm-devel python3-libpfm libcap-ng libcap-ng-devel libpcap-devel \
bpf* libbpf* libnuma* numa*
```

```
# REBOOTED
reboot
```

NOTE: If you want your RPM's to be compiled with DPDK, you will need to also go grab the DPDK version 22.x source and build that as well. Rocky 8.8 only has the 21.x packages available. I opted to not compile it in.

[Open vSwitch with DPDK](#)

```
# OVS CONFIGURE, DEP CHECK AND RPM BUILD
cd /opt/ovs

./boot.sh
./configure --prefix=/usr --localstatedir=/var --sysconfdir=/etc

sed -e 's/@VERSION@/3.2.90/' rhel/openvswitch-fedora.spec.in > /tmp/ovs.spec
dnf builddep /tmp/ovs.spec
rm -f /tmp/ovs.spec

make rpm-fedora RPMBUILD_OPT="--with check"

ls -al rpm/rpmbuild/RPMS/x86_64/
```

```
# INSTALL OVS
cd rpm/rpmbuild/RPMS/x86_64/
```

```
dnf install \
openvswitch-3.2.90-1.el8.x86_64.rpm \
network-scripts-openvswitch-3.2.90-1.el8.x86_64.rpm \
openvswitch-devel-3.2.90-1.el8.x86_64.rpm
```