

# VIRTUAL FIREWALLS WORKSHOP

## (½ DAY)

Anything is marketed as a virtual firewall these days, from contexts on physical boxes to hypervisor kernel modules and VMs with a kitschy GUI in front of Linux *iptables*.

This workshop will walk you through the virtual firewalls taxonomy, describe the major architectural options, and illustrate typical use cases with products from vendors like Cisco, Microsoft and VMware.

If you're a network or security architect, designer or implementation engineer working in virtualized environments, or involved in design or deployment of public or private clouds, this workshop is a must-have overview of available technologies, deployment scenarios, and scalability concerns.

## TOPICS COVERED

The workshop covers these topics:

- Firewall taxonomy (routed versus bump-in-the-wire, various levels of statefulness);
- Virtual contexts on physical devices versus virtual firewalls;
- Virtual appliance firewalls;
- VM NIC firewalls and sample products;
- Third-party plugins for VM NIC firewalls;
- Service insertion and service chaining;
- Virtual firewalls in private or public cloud environments.

## TAKEAWAYS

After attending this workshop you'll be able to:

- Identify common virtual firewall implementations and their benefits and drawbacks;
- Evaluate vendor architectures and their applicability in your environment;
- Select the virtual firewall solution meeting your requirements.

## AVAILABILITY

Virtual Firewalls is a half-day on-site workshop. The workshop can be extended by in-depth technical details or discussions of customer's specific design challenges.

## WHO SHOULD ATTEND

This workshop targets network or security architects, designer or implementation engineer who are:

- Working in virtualized environments;
- Involved in design or deployment of public or private clouds;
- Evaluating the next-generation virtual firewall solutions.

## ABOUT THE AUTHOR

Ivan Pepelnjak, CCIE#1354 Emeritus, is an independent network architect, book author, blogger and regular speaker at industry events like Interop, RIPE and regional NOG meetings. He has been designing and implementing large-scale service provider and enterprise networks since 1990, and is currently using his expertise to help multinational enterprises and large cloud- and service providers design next-generation data center and cloud infrastructure using Software-Defined Networking (SDN) and Network Function Virtualization (NFV) approaches and technologies.

Ivan is the author of [several books covering data center technologies](#), highly praised [webinars](#), and dozens of [data center](#) and [cloud](#)-related technical articles published on [his blog](#).