

NETWORK AUTOMATION

Registration Fee and Information



The registration fee includes participation of one registered person, course notes, lunch and coffee breaks.

At the end of the Seminar, participants will receive an official certificate of attendance.

REGISTRATION FEE (VAT excluded)

- **WONDERFUL PRICE: 650,00€**
For subscriptions made before September 1st, 2017, with immediate payment (Availability 10 seats).
- **EARLY BOOKING: 960,00€**
For subscriptions made from September 2nd to September 29st, 2017, with immediate payment (Availability 20 seats).
- **NORMAL PRICE: 1280,00€**
For subscriptions made from September 30st, 2017 on, or with payments at the end of the seminar.

Discount Policy for multiple attendance

In case of two or more participants from the same company, and in case of **Early Booking** or **Normal Price**, the registration fee for the second and successive participants will be discounted by 15%



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**ALL INFORMATION
AND UPDATES ABOUT
THE SEMINAR AND THE
REGISTRATION FORM
ARE ONLINE AT:**

www.reissromoli.com

LOCATION:

SGM Conference Center
Via Portuense, 741 – 00148 Roma – Italy



ROME, October 18 -19, 2017

Network Automation

Speaker **IVAN PEPELNJAK**

Whenever you hear about someone using **Network Automation** in a production network it's usually a startup or large web property (Netflix, Spotify, Twitter, Facebook...).

While some ISPs used automatic service deployment for decades, it seems nothing's going on in the *Enterprise* networks. This workshop will show you how wrong that notion is.

We'll start with easy tasks like generating network device configurations using **Ansible** instead of *Excel* spreadsheets, and you'll see that you don't have to be a programmer or speak fluent **Python** to get the job done.

We'll also explore what the vendors already offer us: most of the data center vendors provide **Puppet** or **Chef** agents on their boxes, and you can use them to solve one of the most mundane networking challenges: configuring VLANs on *server-facing ports*.

Moving to slightly trickier topics, we'll discuss collecting network configurations with **RANCID**, storing them in **Git**, and automating the *deployment* of our configurations while still retaining full control and sanity checks with *tools* like *Gerrit* and *Jenkins*.

Finally, we'll tackle a troubleshooting challenge: find a device with known MAC address hiding somewhere within a large network.

The first part of the workshop covers these topics:

- **Introduction to network automation**
- **Overview of network automation tools**

The second (hands-on) part covers automated configuration deployment with YAML, Jinja2 and Ansible.

INTRODUCTION TO NETWORK AUTOMATION

- **What is network automation and why would you use it**
- **Abstraction of network state**
- **Automated provisioning**
- **Automated remediation**
- **CLI, API or NETCONF?**
- **How can I get started?**
- **ANetwork automation caveats**

AUTOMATED CONFIGURATION DEPLOYMENTS

- **Configuration and state management tools: Puppet and Chef**
- **Automation frameworks: Ansible**
- **Version control tools**
- **Workflow- and reviewing tools**
- **Continuous integration tools**

NETWORK AUTOMATION TOOLS

- **Building an network state data model**
- **Expressing the data model in YAML**
- **Generate device configurations from YAML data model and Jinja2 templates**
- **Simple network automation with Ansible**
- **Ansible playbooks and facts**
- **Building and deploying device configurations with Ansible**



Ivan Pepelnjak, CCIE No. 1354 Emeritus, has been designing, installing, troubleshooting, and operating large service provider and Enterprise networks for more than 30 years.

He is among the world's leading experts in large IP networks and Data Center technologies, and has been a consultant to major service providers such as British Telecom, Deutsche Telekom, France Telecom, Global One, Telia and SITA, and major companies such as Cisco Systems, Digital, Hewlett Packard, IBM, Unisys, as well as large banks (Dresdner Bank in Germany) and oil companies (Statoil in Norway).

He is the author of successful books on networking, such as MPLS and VPN Architectures (1st and 2nd Edition) and EIGRP Network Design. Ivan was one of the first Cisco's CCIE and certified instructors.

He is the Technical Director of NIL Data Communications, for which he designed the largest Data Centre in Slovenia, and the first Cloud Service.

His blog: Ipspace.net is one of the most followed by the worldwide internetworking community.

Registration to the seminar Network Automation

SGM Conference Center - Via Portuense, 741 Roma, October 18-19, 2017

Please, complete the form below and send it - together with the document of payment of the registration fee - to the fax number +39 0862 028308 or by e-mail to info@ssgrr.com.

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SUBSCRIPTIONS				
	PRICE VAT EXCLUDED	AVAILABILITY	DISCOUNT POLICY FOR MULTIPLE ATTENDANCE*	APPLICABILITY
WONDERFUL PRICE	€ 650,00	10 seats	NO	For subscriptions made before September 1 st , 2017, with immediate payment
EARLY BOOKING	€ 960,00	20 seats	YES	For subscriptions made from September 2 nd to September 29 th , 2017, with immediate payment
NORMAL PRICE	€ 1280,00	-	YES	For subscriptions made from September 30 th , 2017 on, or with payments at the end of the seminar

(*) In case of two or more participants from the same company, the registration fee for the second and successive.

PARTICIPANT DETAILS

Company _____
Name _____ email _____
Job Function _____
Total Registration fee _____ (VAT 22% to be added)

PAYMENT OF THE REGISTRATION FEE:

Subscription to the seminar will be confirmed after the payment of the registration fee by bank transfer to Reiss Romoli srl - Banca: Intesa San Paolo - IBAN Code IT73W0306903603100000009179. SWIFT/BIC: BCITITMM

INVOICING DETAILS

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THE CLIENT

STAMP AND SIGNATURE

DATE