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# OpenStack Administration

Kategoria	Czas trwania	Termin	Cena
Cloud	14h / 2 dni	ustalamy indywidualnie	ustalamy indywidualnie

## Program szkolenia:

Poniżej przedstawiamy przykładowy program szkolenia, który może zostać zmodyfikowany zgodnie z oczekiwaniami oraz poziomem grupy szkoleniowej. Przed przygotowaniem docelowego programu szkolenia, przeprowadzamy rozmowę techniczną, w której bierze udział trener oraz osoba techniczna lub cały zespół developerów reprezentujący klienta, w celu ustalenia szczegółów szkolenia.

## ■ Training plan

### Introduction to OpenStack

- History of the cloud and OpenStack
- Cloud features
- Cloud models
  - *private, public, hybrid*
  - *on-premise, IaaS, PaaS, SaaS*
- Public and private cloud deployments based on OpenStack
- Open source and commercial OpenStack distributions
- OpenStack deployment models
- OpenStack ecosystem
  - *Modules*
  - *Underlying tools*
  - *Integrations*
- OpenStack lifecycle
- OpenStack certification
- OpenStack lab (VM) for this course

# ■ Training plan c.d.

## Hands-on OpenStack administration workshop

- Getting to know OpenStack
  - *OpenStack components (Keystone, Glance, Nova, Neutron, Cinder, Swift, Heat)*
  - *Interaction with OpenStack cloud*
  - *OpenStack daemons and API communication flow*
- Keystone - Identity management service
  - *Domains, projects, users and roles*
  - *Managing Keystone catalogue services and endpoints*
  - *Manage/Create domains, groups, projects, users, and roles*
  - *Verification of Keystone services*
- Glance - Image service
  - *Image features (properties, metadata, format, container)*
  - *Uploading and downloading image*
  - *Sharing images*
  - *Manage quotas for image service*
  - *Verification of Glance services*
- Neutron - Networking
  - *Basic Neutron network resource types*
  - *Manage tenant networks, subnets,*
  - *Manage security groups and rules*
  - *East-West routing*
  - *Network namespaces*
  - *Manage external/provider networks*
  - *North-South routing*
  - *Floating IPs management*
  - *Manage network quotas*
  - *Basic network troubleshooting (namespaces, tcpdump, etc.)*
  - *Networking quotas*
  - *Verification of Neutron services*

## ■ Training plan c.d.

- Nova - Compute service
  - *Interfaces to hypervisors*
  - *Keypair management*
  - *Flavour management*
  - *Instance parameters*
  - *Creating an instance*
  - *Verification of spawned instances*
  - *Snapshotting*
  - *Instance management*
  - *Assigning floating IPs*
  - *Interactive console and console log*
  - *Security groups assignment*
  - *Compute quotas*
  - *Getting statistics from Nova*
  - *Placement API and Nova Cells v2*
  - *Verification of Nova services*
- Cinder - Block Storage
  - *Volume parameters*
  - *Creating volume*
  - *Manage volume*
  - *Attaching volume to Nova instance*
  - *Managing volume snapshots*
  - *Managing volume backups*
  - *Restoring backups*
  - *Managing volume quotas*
  - *Adding new storage backend*
  - *LVM, storage array and Ceph storage backends*
  - *Ceph in OpenStack*
  - *Verification of Cinder services*

## ■ Training plan c.d.

- Swift - Object Storage
  - *Swift components and processes*
  - *Managing containers and objects*
  - *Managing access control lists*
  - *Setting up object expiration*
  - *The Ring and storage policies*
  - *Monitoring available storage space*
  - *Setting up quotas*
  - *Verification of Swift services*
- Heat - Orchestration
  - *Heat Orchestration Template and its components*
  - *Creating Heat stack*
  - *Verification of Heat stack*
  - *Updating Heat stack*
  - *Verification of Heat services*

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# KONTAKT

Jesteś zainteresowany kursem wieczorowym  
lub dedykowanym szkoleniem dla Twojej firmy?

**Skontaktuj się z Przemkiem!**



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