

Safe Harbor Statement

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A hand is holding a small globe of the Earth. Overlaid on the globe is a network diagram consisting of white dots connected by thin white lines, representing a global network or cloud infrastructure. The background is split into a light grey upper half and a dark blue lower half, with a large red triangle on the right side.

Infrastruktura definiowana programistycznie

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ORACLE®

Infrastruktura



Infrastruktura



```
# Creates BM Compute with HighIO shape, OELinux 7.3 image
```

```
data "baremetal_core_images" "OLImageOCID"{
    compartment_id = "${var.compartment_ocid}"
    operating_system = "${var.InstanceOS}"
    operating_system_version = "${var.InstanceOSVersion}"
}
```

```
data "baremetal_identity_availability_domains" "ADs" {
    compartment_id = "${var.tenancy_ocid}"
}
```

```
data "baremetal_core_vnic_attachments" "InstanceVnics" {
    compartment_id = "${var.compartment_ocid}"
    availability_domain = "${lookup(data.baremetal_identity_availability_domains.ADs.availability_domains[var.AD - 1], "name")}"
    instance_id = "${baremetal_core_instance.RadekInstance.id}"
}
```

```
# Gets the OCID of the first (default) vNIC
```

```
data "baremetal_core_vnic" "InstanceVnic" {
    vnic_id = "${lookup(data.baremetal_core_vnic_attachments.InstanceVnics.vnic_attachments[0], "vnic_id")}"
}
```

```
resource "baremetal_core_instance" "RadekInstance" {
    availability_domain = "${lookup(data.baremetal_identity_availability_domains.ADs.availability_domains[var.AD - 1], "name")}"
    compartment_id = "${var.compartment_ocid}"
    display_name = "RadekInstance"
    hostname_label = "rico"
    image = "${lookup(data.baremetal_core_images.OLImageOCID.images[0], "id")}"
    shape = "${var.InstanceShape}"
    subnet_id = "${baremetal_core_subnet.AccessSubnet.id}"
    metadata {
        ssh_authorized_keys = "${var.ssh_public_key}"
        # user_data = "${base64encode(file(var.BootstrapFile))}"
    }
}
```

```
 timeouts { #amount of time a specific operation is allowed to take before being considered an error
    create = "15m"
}
}
```

```
output "InstancePrivateIP" {
    value = ["${data.baremetal_core_vnic.InstanceVnic.private_ip_address}"]
}
```

Oracle Cloud

Co budujemy



- Otwarte, programowo definiowane, kompletne, bezpieczne **centrum przetwarzania danych w chmurze**
- Wyróżniać się na poziomie **wydajności, skalowalności, swobodzie zarządzania,....**



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Oracle Cloud Platform: IaaS



Compute



Networking



Storage

CORE INFRASTRUCTURE

Compute

Block Storage

Object Storage

File Storage

Networking

DATABASE

Bare Metal, VM, and Exadata

Autonomous Data Warehouse

Autonomous Transaction Processing

SOLUTIONS, PLATFORM AND EDGE

Email Delivery

Edge Services

Developer Services

GOVERNANCE AND ADMINISTRATION

Identity

Security

Instances

Instance Configurations

Instance Pools

Custom Images

Boot Volumes

Boot Volume Backups



Object Storage

2-6 mins



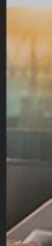
Create a data warehouse
Autonomous Data Warehouse

3-5 mins



Manage a domain
DNS Zone Management

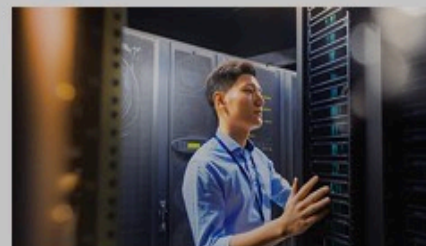
3-9 mins



Ansible Modules for Oracle

Automate the configuration and provisioning of your cloud infrastructure with Ansible modules.

[Learn more](#)



Mission Critical Databases

Leverage a range of modern cloud data management options, with 100% on-premises compatibility.

[Learn more](#)



All systems operational
[View health dashboard](#)

Action Center



User Management

[Add a user to your tenancy](#)



Billing

[View your bill](#)

What's New

Gartner names Oracle a "Visionary" in new magic quadrant for Web Application Firewalls

9/11/2018 [Read more](#)

Introducing updateable instance metadata

9/11/2018 [Read more](#)

Deploy Kubeflow with Oracle Cloud Infrastructure Container Engine for Kubernetes

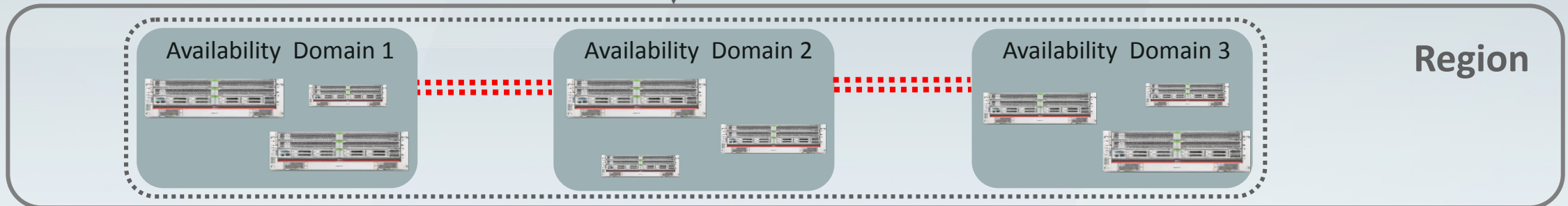
8/28/2018 [Read more](#)

Get Help

AD - Podstawowy blok struktury :

Kilka, niezależnych Centrów Przetwarzania Danych:

Niskie opóźnienia, wysoka przepustowość, bezpieczeństwo



Sieć między serwisami w ramach AD:

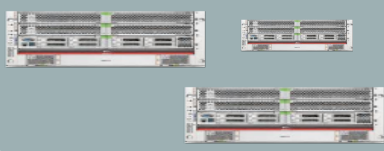
Przepustowość: 25Gb/s, 10Gb/s

Opóźnienie: < 100μs



physical network

Availability Domain 1



Availability Domain 2



Availability Domain 3



Datacenters

Region

Sieć między AD

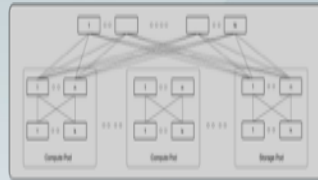
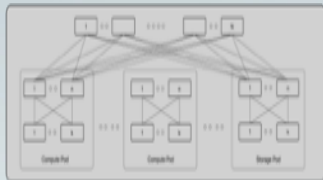
Przepustowość: 1Tb/s

Opóźnienie: < 500us

Sieć między serwisami w ramach AD:

Przepustowość: 10Gb/s

Opóźnienie: < 100us



physical
network

Availability Domain 1



Availability Domain 2



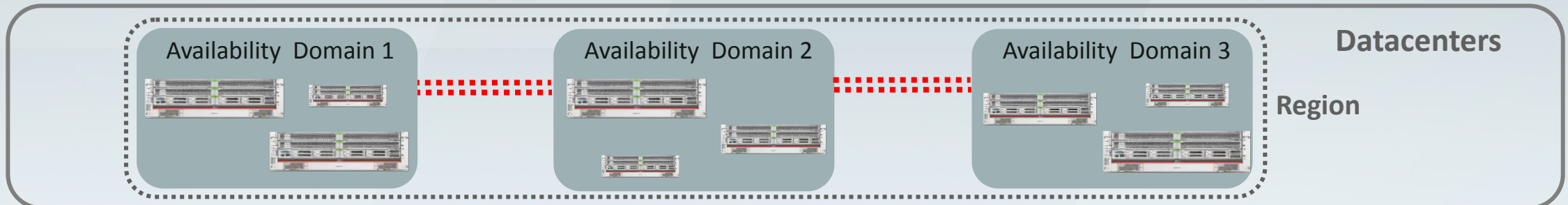
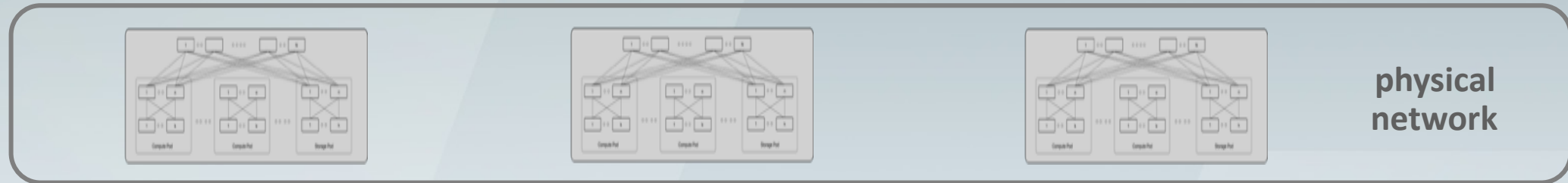
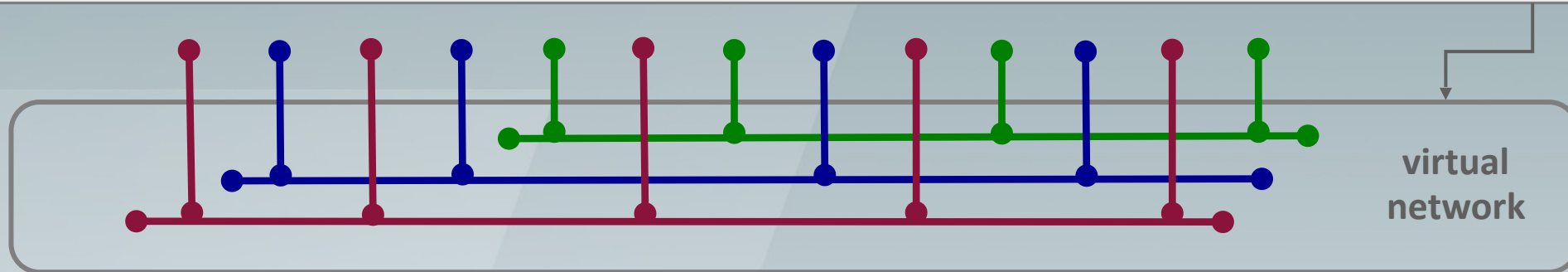
Availability Domain 3



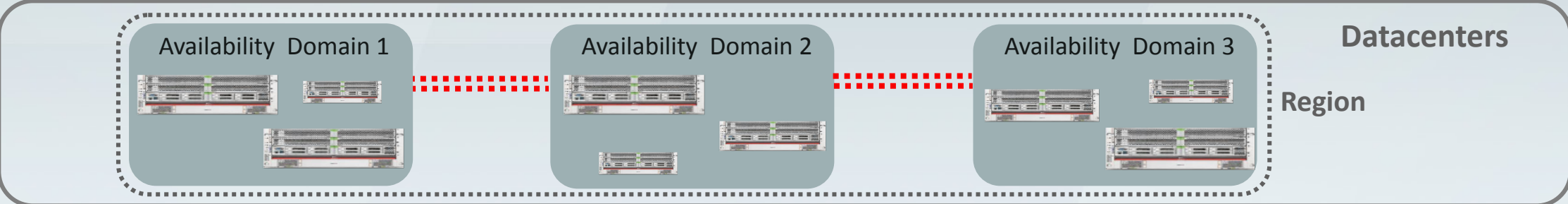
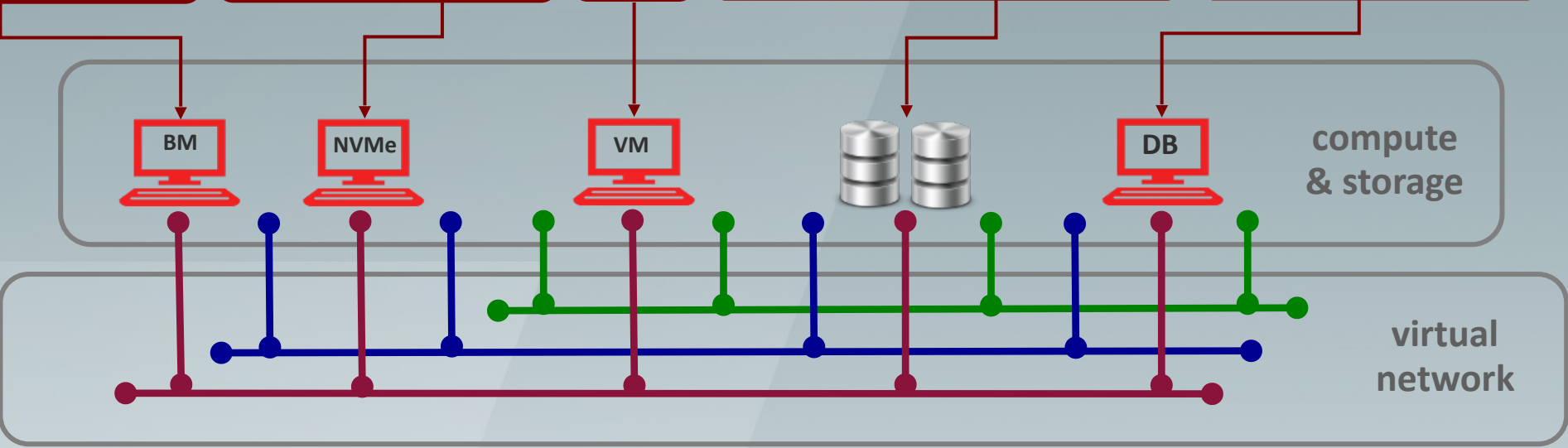
Datacenters
Region

Virtual Cloud Network (VNC):

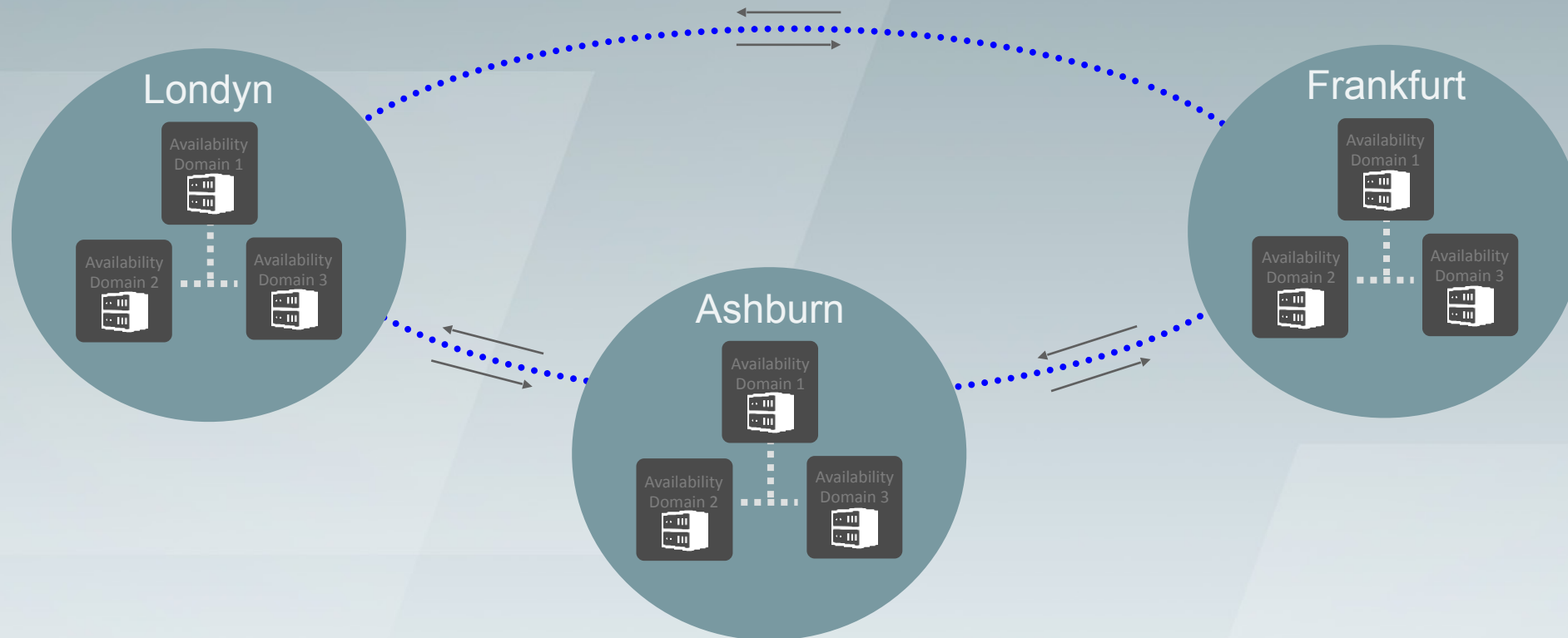
Wirtualna wersja tradycyjnej sieci z uwzględnieniem: podsieci, tablic routingu, bram, polityk dla firewall, ...



Bare metal hosts NVMe storage VMs Engineered Systems BM DBaaS



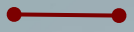
Regions + Availability Domains + Backbone Network



Port



22



80/443

Internet

Security list

bastion

loadbalancer

webserver



SUBNET bastion-1
10.0.7.0/24

bastion-1



SUBNET: loadbalancer-1
10.0.5.0/24



SUBNET webserver-1
10.0.1.0/24



AVAILABILITY DOMAIN 1



SUBNET loadbalancer-2
10.0.6.0/24



SUBNET webserver-2
10.0.2.0/24



AVAILABILITY DOMAIN 2

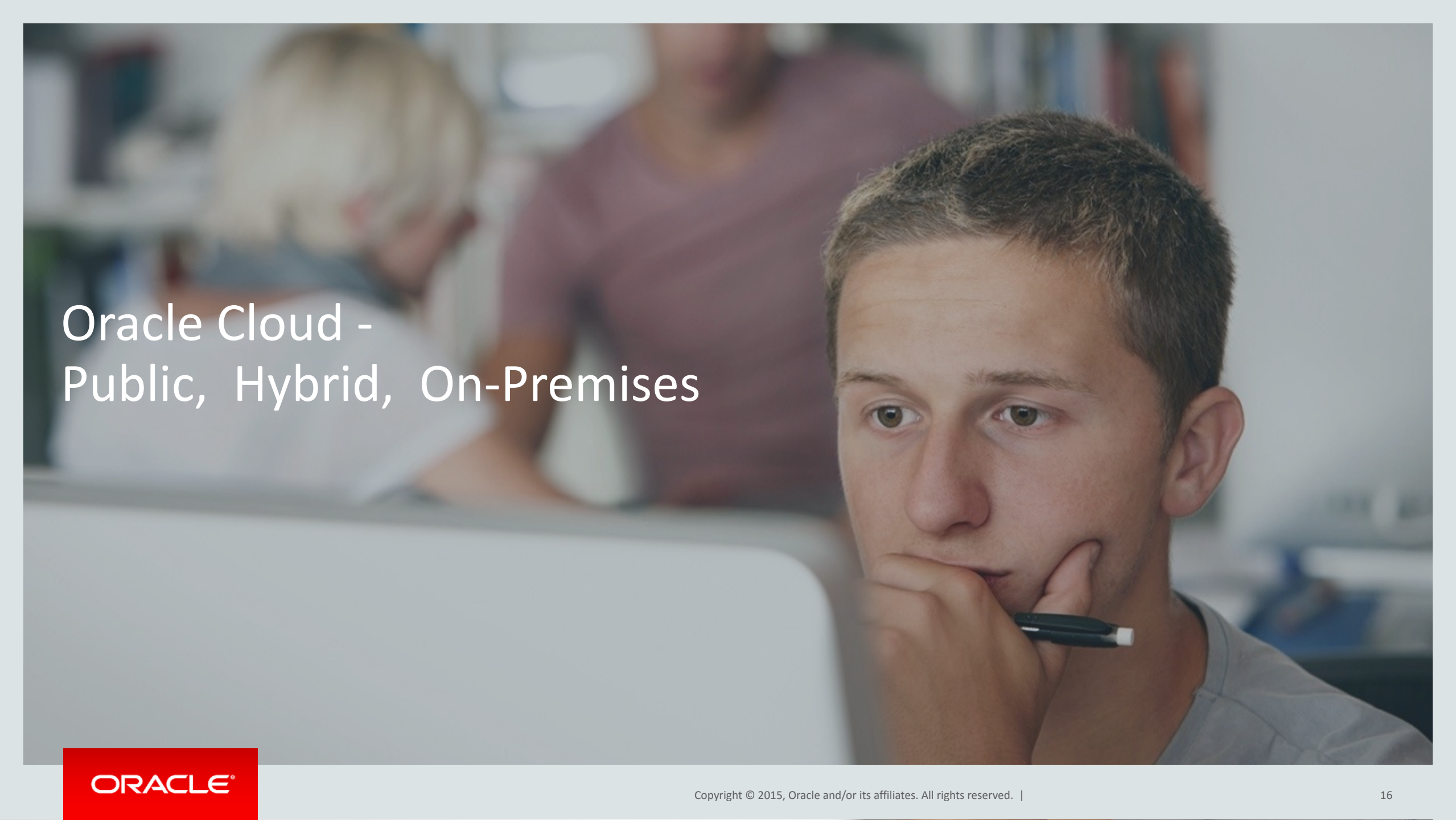
VCN 10.0.0.0/16

COMPARTMENT cXX

TENANCY gsebmcs000xx



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Oracle Cloud - Public, Hybrid, On-Premises



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