

# TAKE CONTROL OF YOUR NETWORK

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Our NFV/SDN over OCP integration services

customized solution for HARDWARE & SOFTWARE INTEGRATION

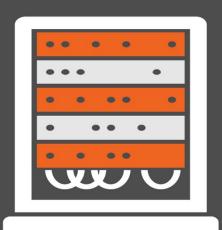
WEHELP YOU
take control of

DELIVERY CYCLE



	CPU CORE RAM SIZE	STORAGE CAPACITY PERFORMANCE	NETWORK CAPACITY PERFORMANCE
WEB FRONT-END	HIGH   LOW	LOW   LOW	HIGH   HIGH
DATABASE	нідн   нідн	нідн   нідн	HIGH   HIGH
DATA LAKE	HIGH   MEDIUM	нідн   нідн	HIGH   HIGH
OBJECT STORAGE	LOW   LOW	нідн   нідн	MEDIUM   MEDIUM
BACK-UP STORAGE	HIGH   MEDIUM	VERY HIGH   MEDIUM	MEDIUM   MEDIUM





Physical (power, rack height, others)

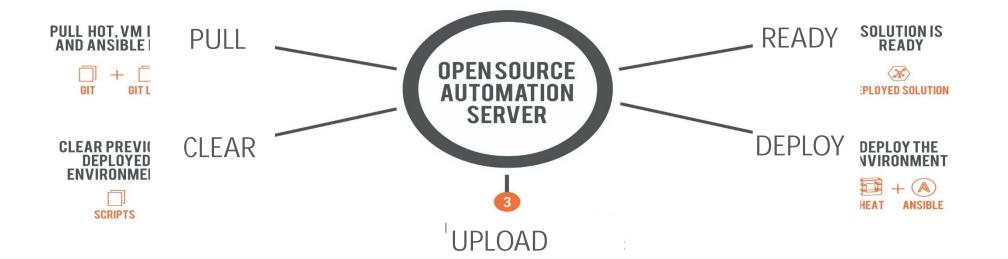
PXE boot model

IPMI in-band/single Ethernet

OpenCompute switch/software recommendations

Storage options





Whether you are looking to...

TRIAL DISAGGREGRATION
AS A METHOD FOR NETWORK
COST-REDUCTION



LAUNCH A
VIRTUALIZATION OVER
OCP HARDWARE PROGRAM



WEHAVE you covered



# NEXIUS

# HAS THE specialized skills & experience TO TAKE YOUR PROJECT



REQUIREMENTS



**PRODUCTION** 

(and manage every step in-between)







ADVISORY SERVICES

DISCOVERY SERVICES FOR AN EXECUTABLE SOW

ARCHITECTURAL DESIGN

HARDWARE DEPLOYMENT E.G. OCP, IF APPLICABLE

OPENSTACK DEPLOYMENT (SOFTWARE)

# TO IMPROVE...



PROCESSES



Nexius offers an extensive portfolio of

BIG DATA STANDARD & SENTIMENT ANALYTICS SERVICES

as a stand alone service

OR

to support your OCP project

# NEXIUS SCALABLE ANALYTICS INFRASTRUCTURE SOLUTIONS:

**Proven Experience** 

Technology Agnostic

**Quality Resources** 

End-toEnd Telecom Expertise

# MEXIUS ?



# **NETWORK DEPLOYMENT**



# **NETWORK ENGINEERING**



**TECHNOLOGY** 



SOFTWARE & BUSINESS INTELLIGENCE

# But we believe the WAY

# YOU DO SOMETHING

ISIMPORTANT.







DEVOTED TO AUTOMATED PROCESSES



FOCUSED ON EMPLOYEE DEVELOPMENT AND TRAINING



COMMITTED TO OPEN SOURCE COMMUNITIES









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## THANK YOU

CONTACT

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# BACKUP SLIDES

### **NEXIUS CLOUD SERVICES**

#### **ARCHITECT**

#### **ADVISORY SERVICES** #1

- > Cloud migration considerations
- > Evolution to advanced cloud infrastructure
- Understanding the design of the laaS / PaaS component and leverage into migration trade-offs analysis
- > Understanding the Big Data Science Angle

# DISCOVERY SERVICES WHICH LEADS TOWARDS AN EXECUTABLE SOW

- Preliminary analysis and technology stack recommendation to turn clients cloud objectives into an strategy
- Identifying application, service, infrastructure, and expansion plans
- Identifying existing cloud service components (if applicable) and analyzing them under cloud migration considerations
- Security & Service Governance
- Software and Hardware constrains

#### **ARCHITECTURAL DESIGN**

 Collect detailed requirements and design the solution/architecture in detail

#### NOTES

- #1 Expert advisory provided by Nexius
- #2 For order available in the US and in certain international markets
- #3 Optional based on customer requirements

#### **BUILD**

#### HARDWARE DEPLOYMENT E.G. OCP. IF APPLICABLE

- Collect application characteristics information (bare-metal, container, VM)
- Dimension the private cloud hardware based on the application characteristics
- Prepare a Bill-of-Material #2
- Prepare an underlay network design (addressing, naming, VLAN numbering, etc.)
- Prepare a virtual infrastructure manager design
- > Receive the equipment, rack and stack it
- > Cable and power the equipment
- Configure the equipment using bare-metal provisioning tools per underlay network design

#### OPENSTACK DEPLOYMENT (SOFTWARE)

- Deploy OpenStack management cluster per design
- Either turn the keys to the customer at this step or continue to next step
- Obtain application artifacts (VM images, code binaries, keys, etc.)
- Build automation scripts using HEAT templates and Ansible scripts for application deployment #3
- Deploy applications, validate networking, reachability
- Test applications for functionality and performance#3

## **USECASE > VIRTUALIZATION: VEPCFOR MOBILITY CARRIER**

#### **CUSTOMER PROBLEM**

Increase efficiencies & enable transition to new virtualized environments for mobility application.

#### **NEXIUS SOLUTION**

- Integrator partner leading beach-head virtualization projects
- Focus on architecture, scaling and network integration via project-specific approach to address entire product life cycle
- Blended Resource Model with team of senior leads, specialists (e.g., VMWare expertise), on-site engineers, and near-time staff
- Team coordination, collaboration, & communication with staff, vendors, carrier's project teams, & Ops
- Automation tools for increased efficiency
- > Embedded engineering resources to support transition from labs to DevOps
- > Team training & skill development for long-term vision

#### **RESULTS**

- Enabled early implementation of Mobility Application
- > Met aggressive timelines & markers toward vision
- > Seamlessly transitioned solutions developed in the labs to Ops Team
- Stabilized & reduced costs
- > Enabled customer to handle a greater volume of projects
- Ensured expertise & tools followed project downstream
- 25% cost reduction
- > 60% more projects delivered; same team size

## USECASE > NFV PROOF OF CONCEPT LAB

#### **CUSTOMER CHALLENGE**

Operator considering early deployment of virtualized environment for some targeted applications requested recommendations.

#### **NEXIUS SOLUTION**

- Nexius developed technical objectives and created a Proof of Concept lab for a specialized virtualized packet core with a vendor
- > Reviewed performance requirements
- Researched implementation options
- Surveyed operational challenges
- > Translated findings in a list of technical requirements and recommendations

#### RESULTS

- Leveraged PoC findings to develop a list of requirements for software vendors, hardware vendors, as well as a virtualization environment
- > Ensured investment in a virtualization platform that was aligned with the network functions it supports

## **USECASE > BIGDATA**

#### **CUSTOMER PROBLEM**

Marketing automation group within a financial services company was looking to explore best technology fit for their analytics needs.

#### **NEXIUS SOLUTION**

- Technology consulting: Evaluated top viable technology stack candidates
- Defined optimal platform, tools, and technologies for the business use cases
- Provided design, architecture, and delivery plan
- > Built, integrated, tested, and delivered platform

#### RESULTS

- > Deployed flexible marketing automation platform that allows new data ingestion in days rather than weeks
- > Unified analytics via collocated Marketing and Business data