

Topic: OpenStack User Survey & Certified OpenStack Administrator Exam

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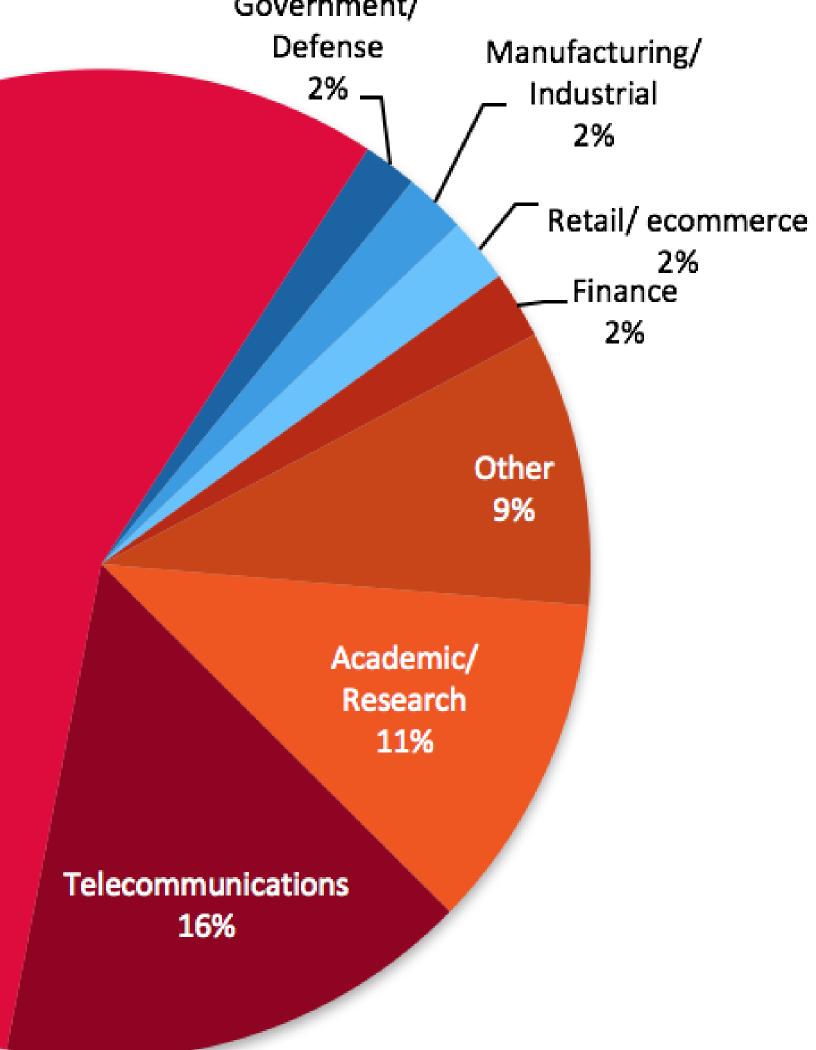
YEAR OVER YEAR



IT makes up the largest share of users, followed by teerom and with academic/research Government/

Information Technology 56%

CHINA RUNS ON **OPENSTACK**



n=1180





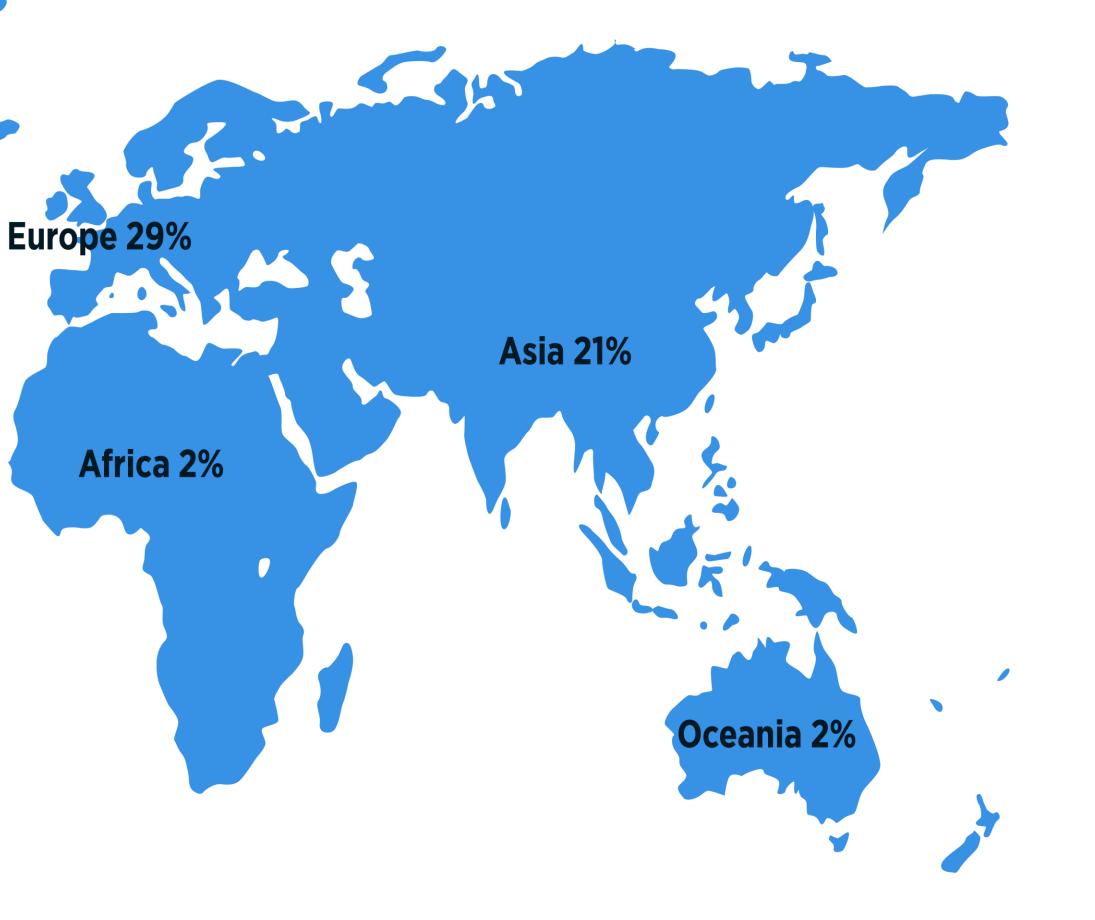
OpenStack users & deployments are globally distributed

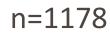
North America 43%

FC.

South America 3%









Organizations of every size use OpenStack

32% have >10,000 employees 25% have <100 employees

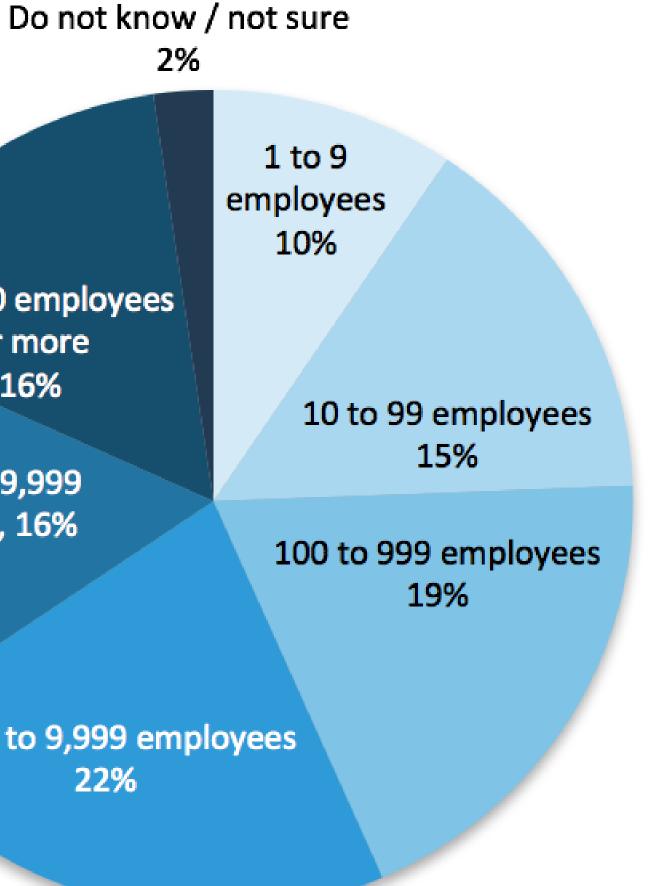
> 100,000 employees or more 16%

10,000 to 99,999 employees, 16%

> 1,000 to 9,999 employees 22%

CHINA RUNS ON **OPENSTACK**



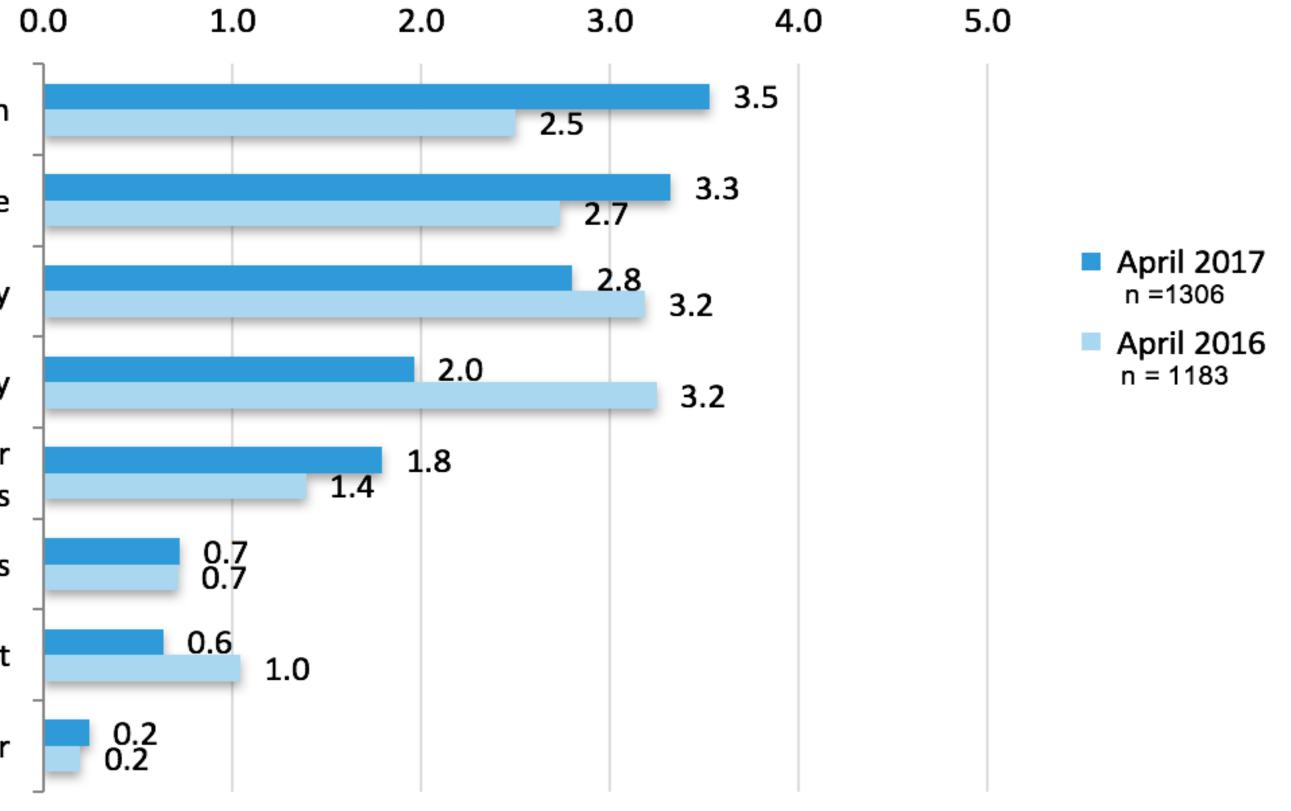


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Innovation, efficiency, and avoiding vendor lock-in are top business drivers



Avoid vendor lock-in Accelerate ability to innovate Increase operational efficiency Save money Standardize on the same open platform and APIs that power a global network of of public and private clouds Achieve security and/or privacy goals Attract top technical talent Other



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CHINA



-April 2017 OpenStack User Survey

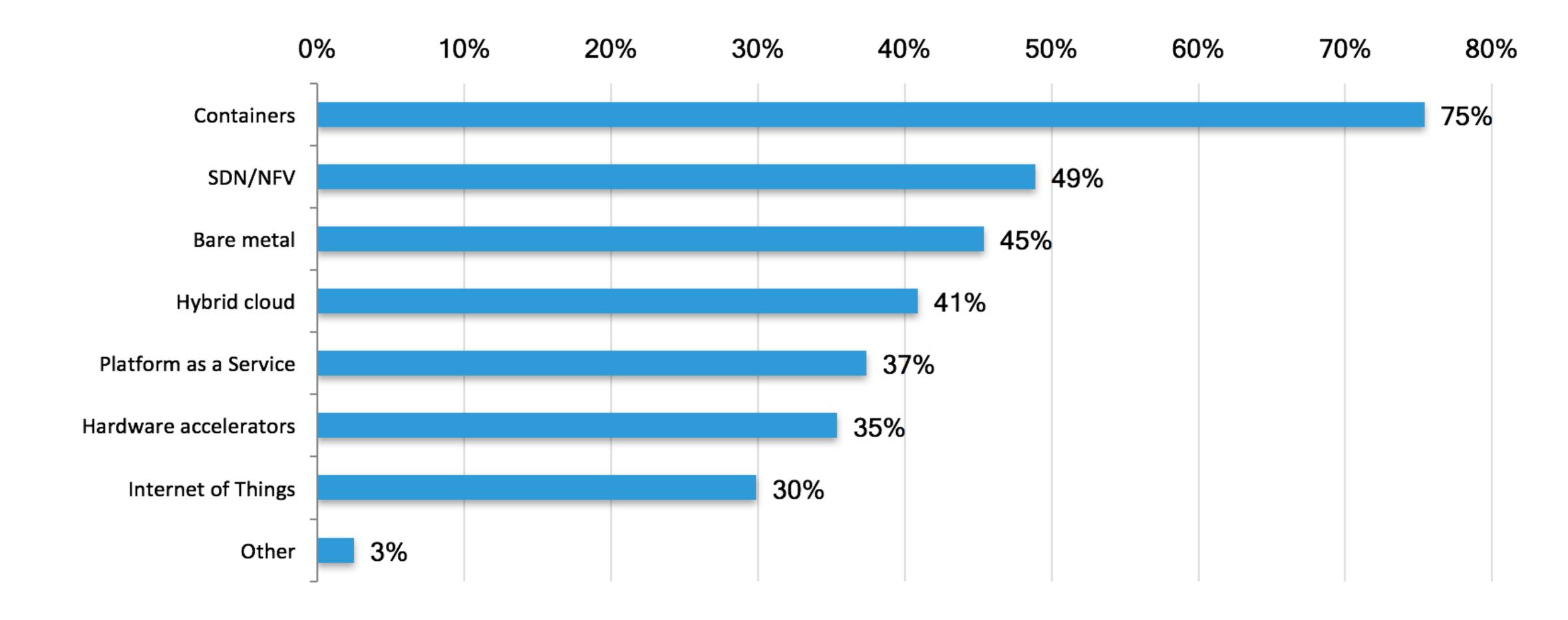






"OpenStack has ... thousands of developers all over the world working in tandem to develop the strongest, most robust, and most secure product that they can."

Containers top the list of emerging technologies that most interest users







n=981





HAVE OPENSTACK IN PRODUCTION



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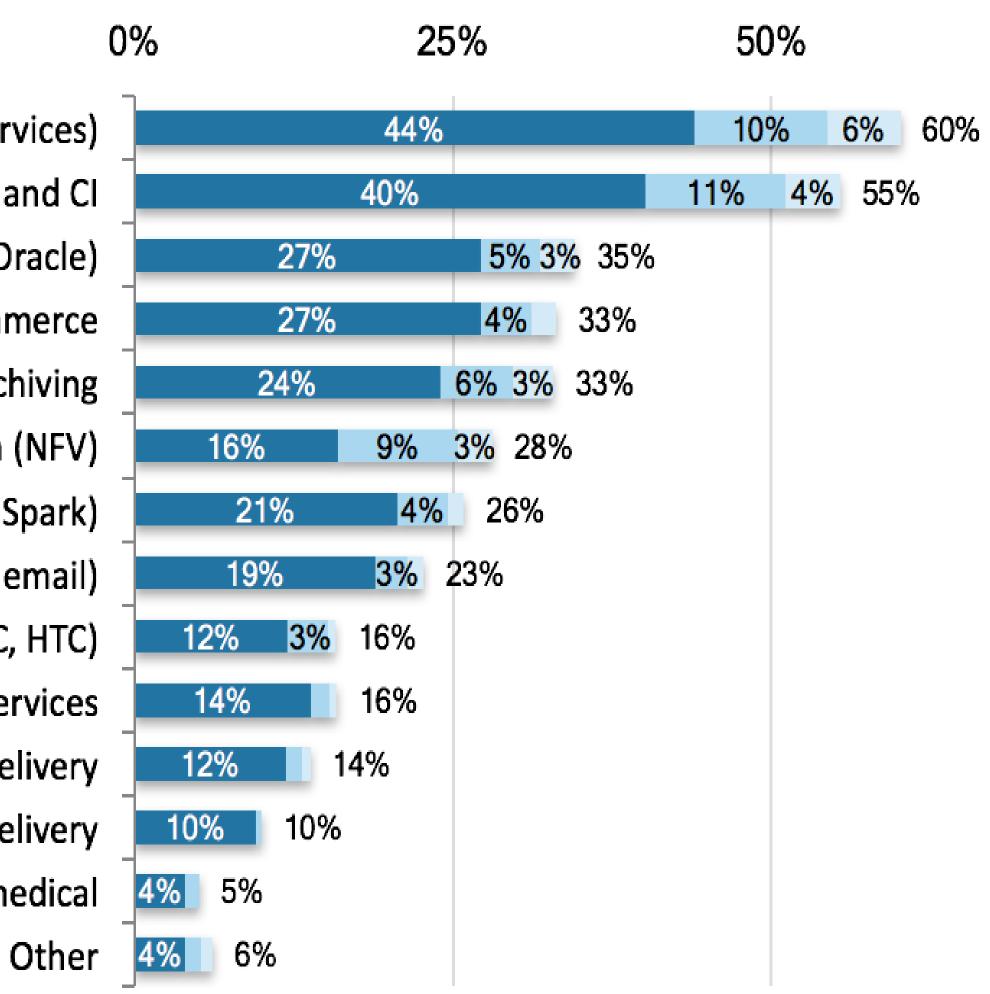


Diverse workloads run on OpenStack

Infrastructure services (e.g. public/private cloud services) Software dev, test, QA and CI Database (e.g. mySQL, Oracle) Web services and e-commerce Storage, backup or archiving Network functions virtualization (NFV) Big data analytics, data mining (e.g. Hadoop, Spark) Business applications (e.g. ERP, CRM, email) Research computing (e.g. HPC, HTC) Mobile applications & services SaaS provider/ delivery Video processing & content delivery Bio & medical





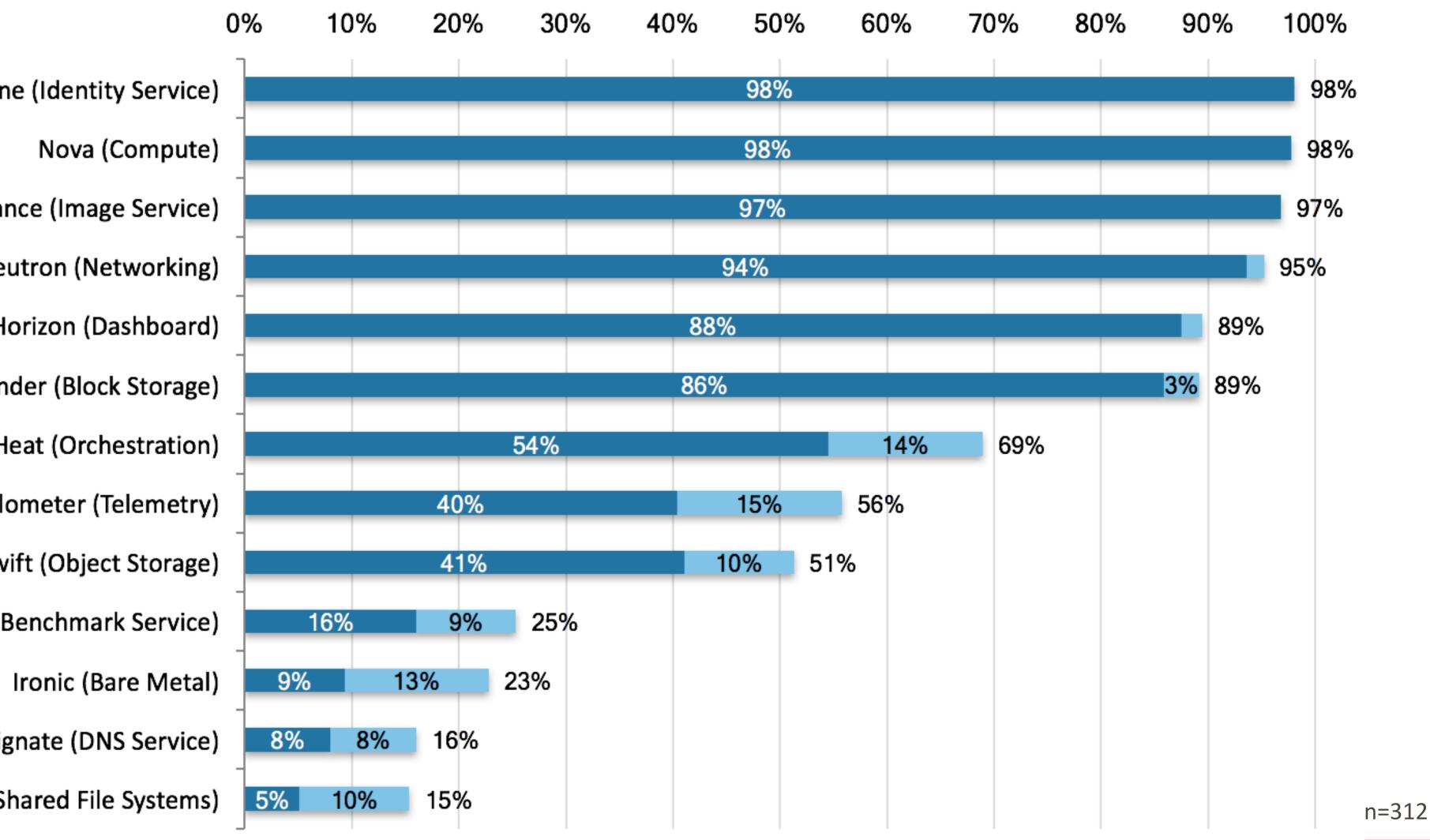


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CHINA OpenStack Days Core services are used by 89% or more clouds



Keystone (Identity Service) Glance (Image Service) Neutron (Networking) Horizon (Dashboard) Cinder (Block Storage) Heat (Orchestration) Ceilometer (Telemetry) Swift (Object Storage) Rally (Benchmark Service) Designate (DNS Service) Manila (Shared File Systems)



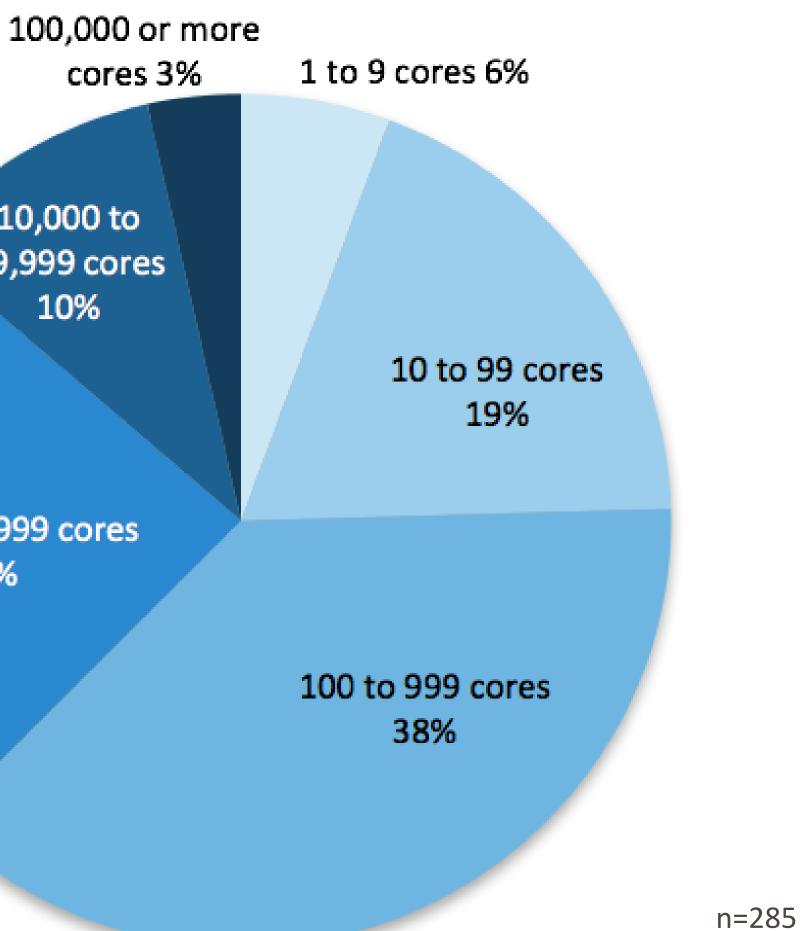


37% of clouds have 1,000+ cores, vs. 29% last year

10,000 to 99,999 cores 10%

1,000 to 9,999 cores 24%

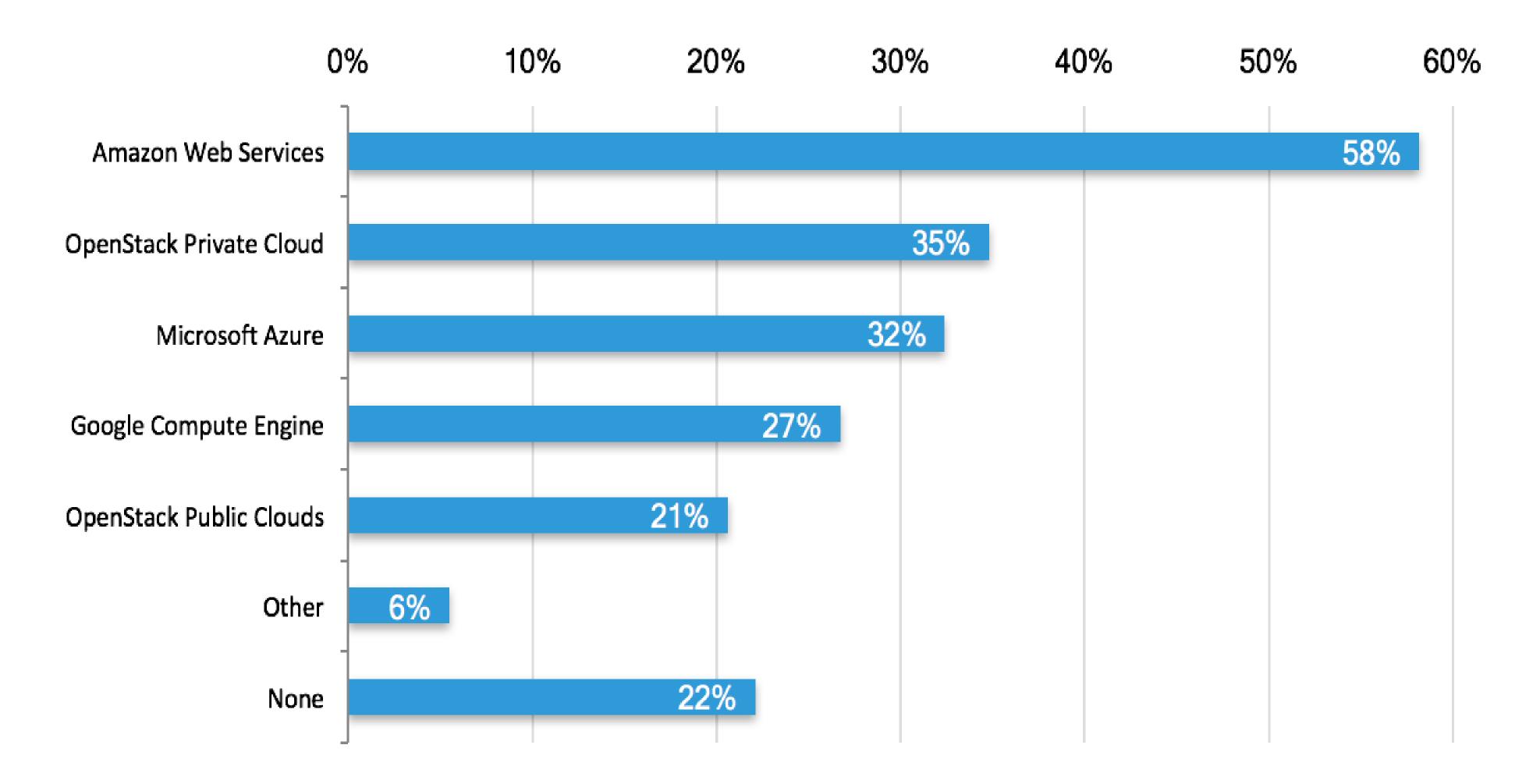








78% of deployments interact with other clouds



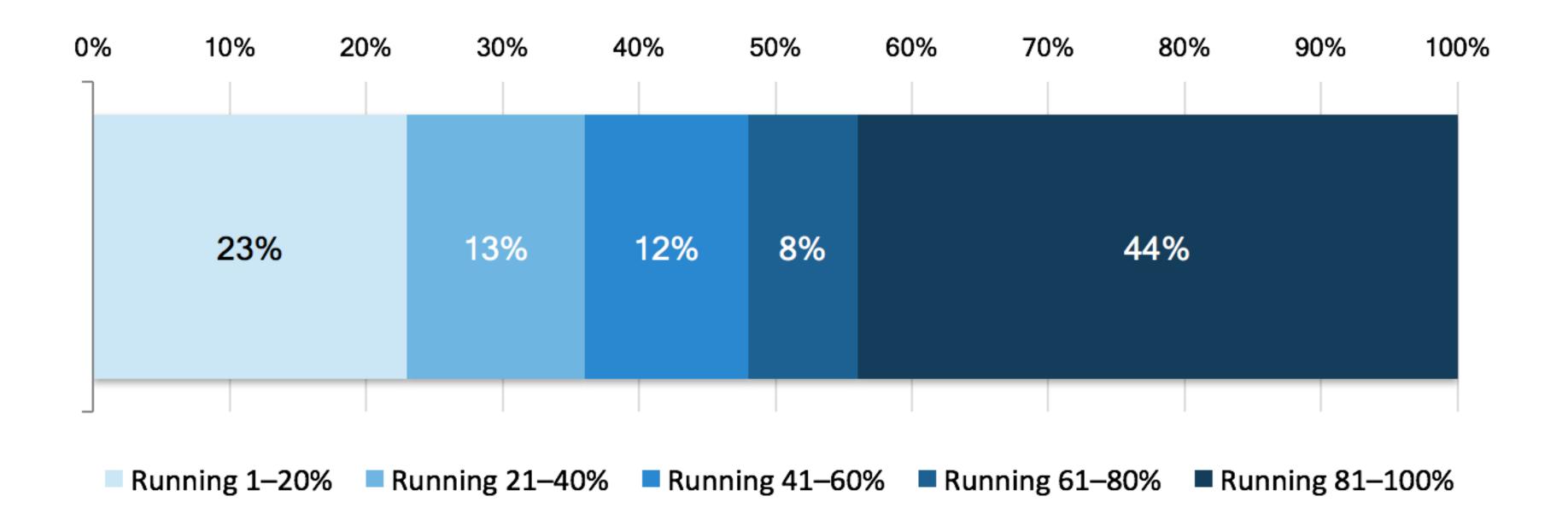








The median OpenStack user runs 61% to 80% of their overall cloud infrastructure on OpenStack.









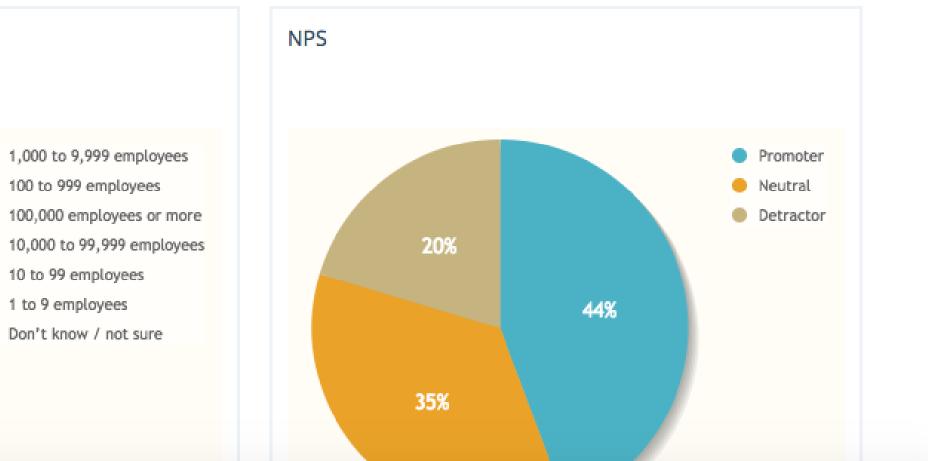
Analyze the results yourself

www.openstack.org/analytics

OpenStack Survey Report - BETA

GLOBAL FILTERS Image: Control of Control o	Stage \$ Country that Deployment is	s in \$ Type of Deployment \$	Current Releases	Number of Cores
Survey Sections	Demographics			
Demographics O	Organization Size	NPS		
Deployments	•	1,000 to 9,999 employees		Promoter
Deployment Decisions		100 to 999 employees 100,000 employees or more 10,000 to 99,999 employees	20%	NeutralDetractor
Cloud Size	10% 22% 15% 16% 19%	10 to 99 employees 1 to 9 employees Don't know / not sure	4	4%
Analytics FAQ	16%		35%	

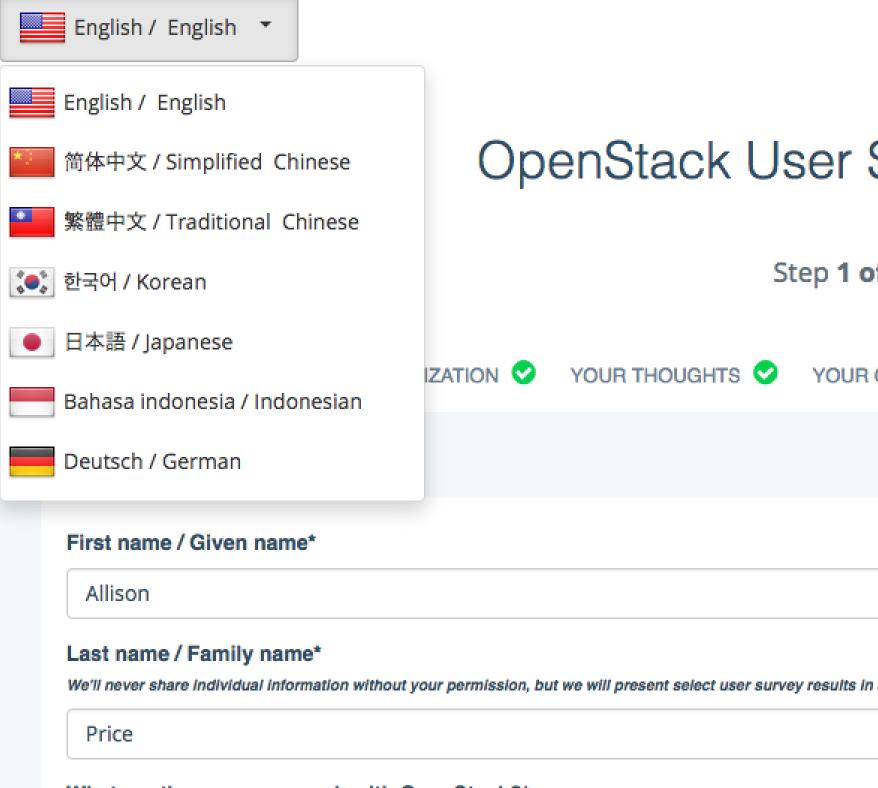








Take the OpenStack User Survey **Deadline: August 11**



What are the ways you work with OpenStack?*





www.openstack.org/user-survey

OpenStack User Survey - 2017 (Jun-Dec)

Step 1 of 5 for Allison Price

YOUR THOUGHTS 💙 YOUR OPENSTACK DEPLOYMENTS 😒 THANK YOU 😒

aggregate.	











CERTIFIED

OPENSTACK ADMINISTRATOR



Certified OpenStack Administrator

Why was the COA created? Why should I take the COA? How do I take the COA? □ What' s on the exam?



- How do I prepare for the exam?





Why was the COA created?

- Needed a skills-based knowledge standard
- Needed a vendor-neutral, transferrable standard Companies and employees wanted to show that they know OpenStack





The Result?

Devs, admins and operators across the community developed the COA test!





Why take the COA?

Badge of distinction organizations that specialize in OpenStack be an individual OpenStack specialist

multiple OpenStack environments

"Coming out of college and not having a lot of cloud experience, preparing for the exam and passing it helped me be successful in my job." –OpenStack Developer



- Vendor-neutral: Show your knowledge transfers to
- Skills-based test: Prove that you can use OpenStack





Why take the COA?

□ What roles?

- Admin and Ops
- Developers: Know the underlying infra





Sales engineer: Customer confidence, product knowledge

"A certification like this shows that you are willing to go above and beyond. It shows that the candidate is really driven to figure out what they need to and be self motivated." -Engineering Director





Exam Fundamentals

Offered on SUSE or Ubuntu Virtual exam, take it anywhere in the world! Version: OpenStack Newton **2.5** hours





- Use Horizon or OpenStackClient to complete tasks





Getting to know OpenStack - 3%

- Understand the components of the cloud
- Know how to use the OpenStack API/CLI

Identity management - 12%

- Manage Keystone catalogue services and endpoints
- Manage domains, projects, users and roles
- Manage the identity service

Dashboard - 3%

• Verify operation of the dashboard

Compute - 15%

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OPENSTACK

- Manage flavors, instances and Nova user keypairs
- Launch, terminate and shutdown an instance
- Assign and manage security groups
- Verify operation of compute service

Block Storage - 10%

- Create a storage volume and mount it to a Nova instance
- Manage volumes quotas and backups
- sizes

Networking - 16%

- Create external networks, project networks and project routers
- instances

Heat/Orchestration - 8%

- Launch a stack using Heat/Orchestration template
- Verify operation and obtain detailed information

openstack.org/coa/requirements

What' s on the exam?





• Analyze discrepancies in reported volume

- Manage network interfaces on compute
- Troubleshoot network issues for a tenant\network

Object Storage - 10%

- Manage access to object storage
- Manage expiring objects
- Manage permissions on a container in object storage

Image management -10%

- Deploy a new image to an instance
- Manage image types and backends

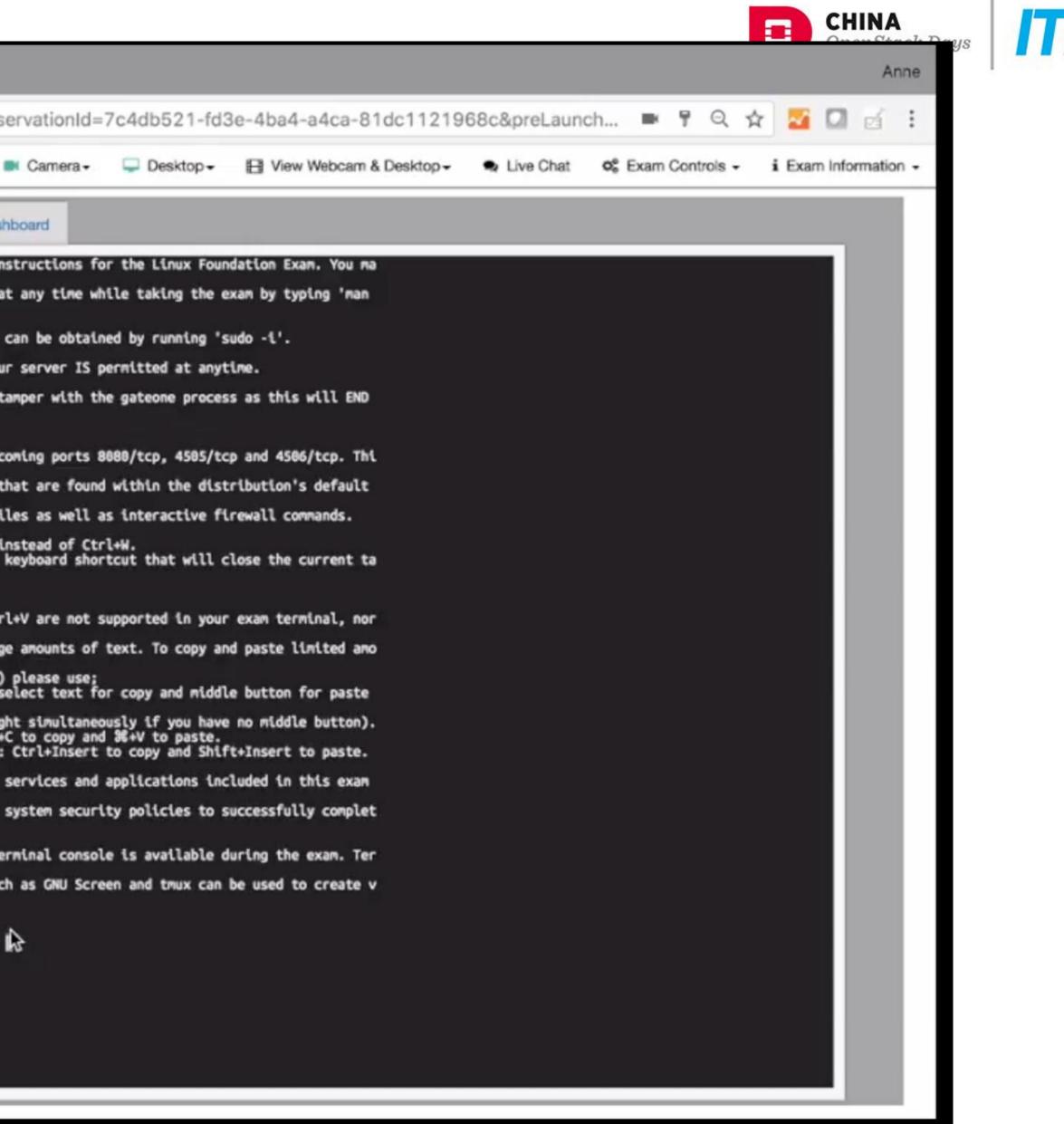
Troubleshooting - 13%

- Analyze log files, database servers, messaging servers, meta data servers, network status and storage status
- Backup and restore an instance



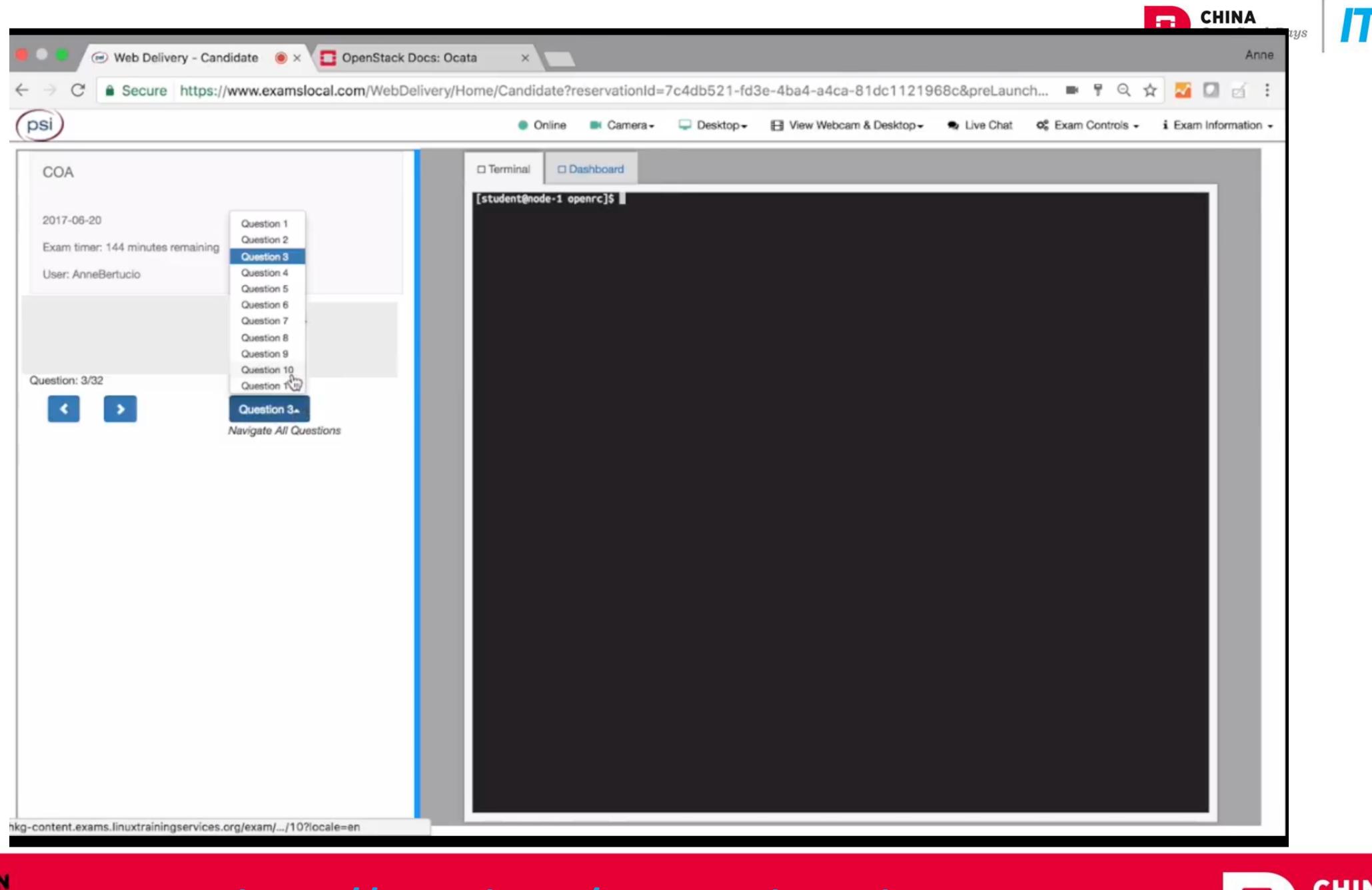
Web Delivery - Candidate × OpenStack Docs: Ocata ×					
← → C ▲ Secure https://www.examslocal.com/WebDelivery/Home/Candidate?res					
psi	Online				
 C A COA 2017-06-20 Exam timer: 148 minutes remaining User: AnneBertucio BEFORE YOU BEGIN (Q1 follows below): 1. You are allowed to open the OpenStack Docs page in a new browser tab or window: https://docs.openstack.org/ 2. Login to the Horizon Dashboard as user admin with password admin (unless otherwise specified, you should use these credentials globally during this exam for the admin project). C1: For the admin project: Question: 1/32 					
	<pre>7. Installation of s nay require nodification of s e. 8. Only a single ter ninal nultiplexers such irtual consoles. [student@node-1 ~]\$]</pre>				

https://tinyurl.com/OpenStackCOAdemo









https://tinyurl.com/OpenStackCOAdemo





How do I prepare?

- Practice, practice, practice!
- 6 months professional experience
- Practice options:
 - DevStack
 - "Getting Started With OpenStack" using Vagrant
 - TryStack (not all tasks can be completed here)
- **Training courses:**
 - openstack.org/marketplace/training Look for the COA badge









Visit openstack.org/coa Visit openstack.org/marketplace/training and look for the COA badge

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What's next?











OPENSTACK Administrator



THANK YOU



