



# Tying Certifications to Career Paths

## Session 1: IT Essentials

Speakers: Teresa Sears,  
Hostess: Kara Sullivan | Cisco Networking Academy  
4 October 2017

# Welcome to the 1<sup>st</sup> session of the Tying Certifications to Career Paths webinar series

- Use the Q and A panel to ask questions.
- Use the Chat panel to communicate with attendees and panelists.
- A link to a recording of the session will be sent to all registered attendees.
- Please take the feedback survey at the end of the webinar.

# Tying Certifications to Career Paths Series

## FIRST SESSION:

IT Essentials - Today

## FUTURE SESSIONS:

- CCNA R&S & CCENT
- CCNA Security
- Linux & Programming
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When finalized, details will be posted @

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# IT Essentials NetAcad Course – Mapped to the CompTIA C+ Cert



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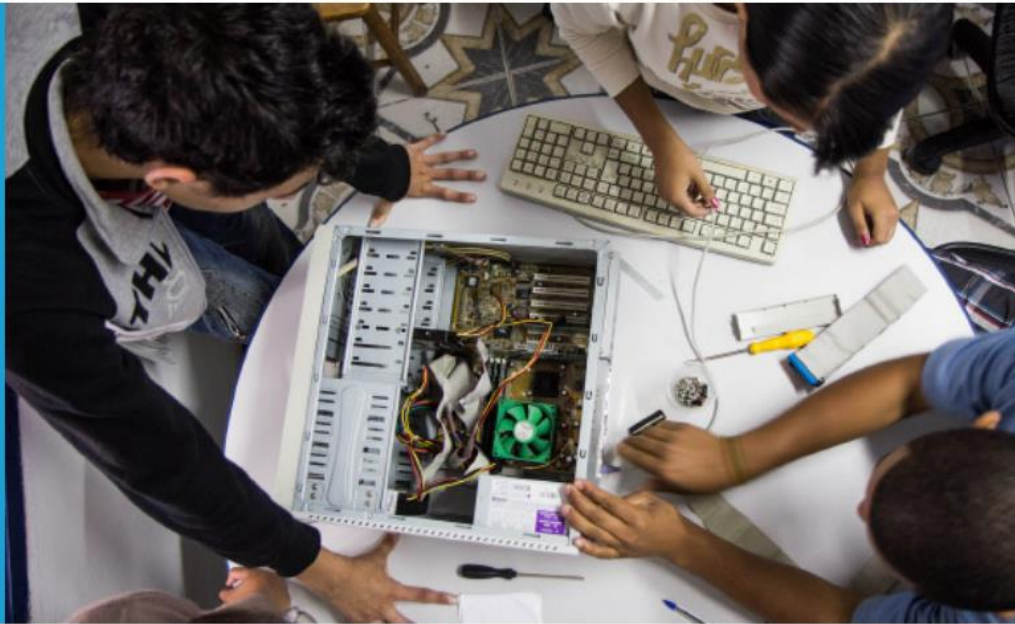
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## IT Essentials

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IT Careers and Certifications

# Foundations for IT Careers

Speaker: Teresa Sears | CompTIA

Hostess: Kara Sullivan | Cisco Networking Academy

October 2017

# Agenda

1. The 4 Functions of IT
2. The IT Infrastructure Career Pathway
3. Telling It Like It Is: An Interview with Josh Clough

# The 4 Functions of IT

Development, Infrastructure, Security & Data

## Businesses want to meet their goals...

- Reducing costs
- Reaching new customers
- Improving operations
- Staff productivity
- Innovation
- Managing threats
- Globalization

## Using new technology models

- Cloud computing
- **Mobility**
- Big data
- Cybersecurity
- Internet of things
- DevOps
- Artificial intelligence

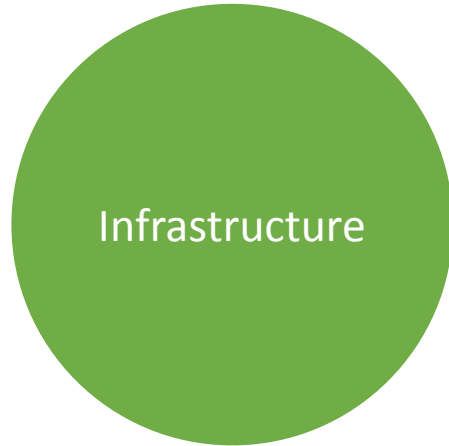


But only **28%** of companies are extremely confident in their ability to apply technology to business goals

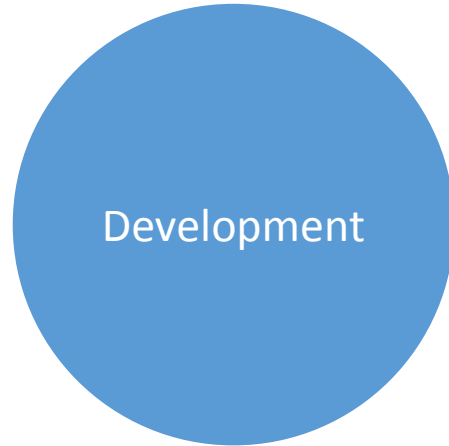
Technical Skills	Needed at Company
Security	40%
Database/Information management	39%
PC support	36%
Storage/Backup	33%
Networks	31%
Cloud architecture	29%
Telecommunications	27%
Server/Datacenter management	27%
Web development	27%
Mobile device support	24%
Application development	23%
Big data tools/analytics	23%
Virtualization	20%

Business Skills/Soft Skills	Needed at Company
Flexibility	41%
Analytical skills	39%
Teamwork	37%
Customer service	34%
Innovation/Problem solving	33%
Project management	30%
Strong work ethic	29%
Motivation	28%
Business understanding	27%
Broad technology knowledge	27%
Communication	22%

Companies report wide range of skill gaps



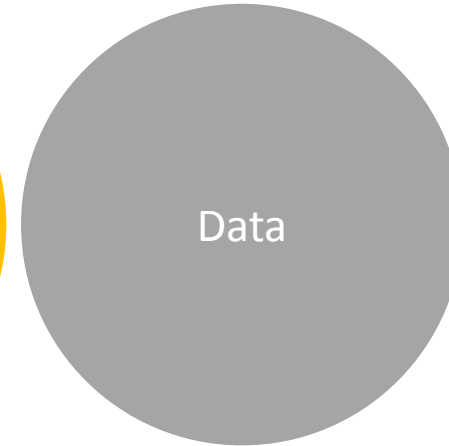
The systems that provide the foundation for business operations



The software that enables workflow and drives automation

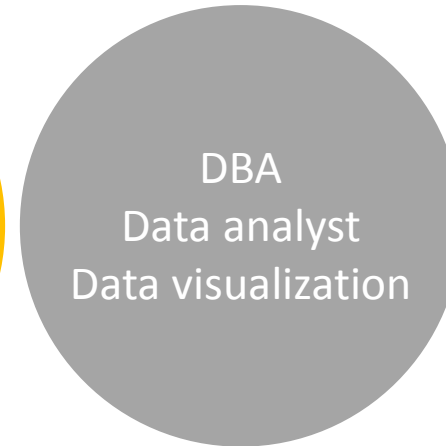
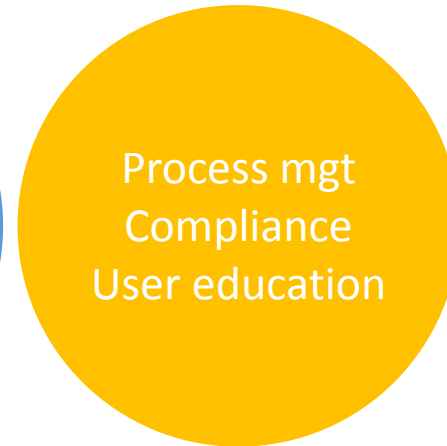
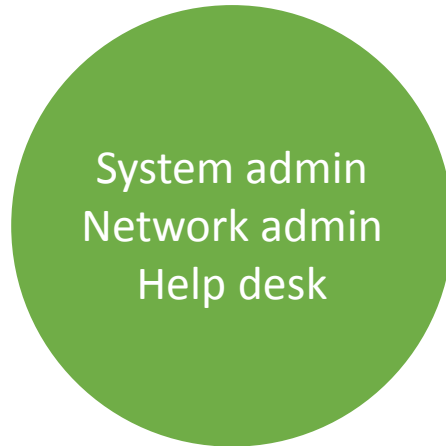


The technology, processes, and education needed for safe operations



The management and analysis of information to provide insights

The IT Framework defines technology operations and skills

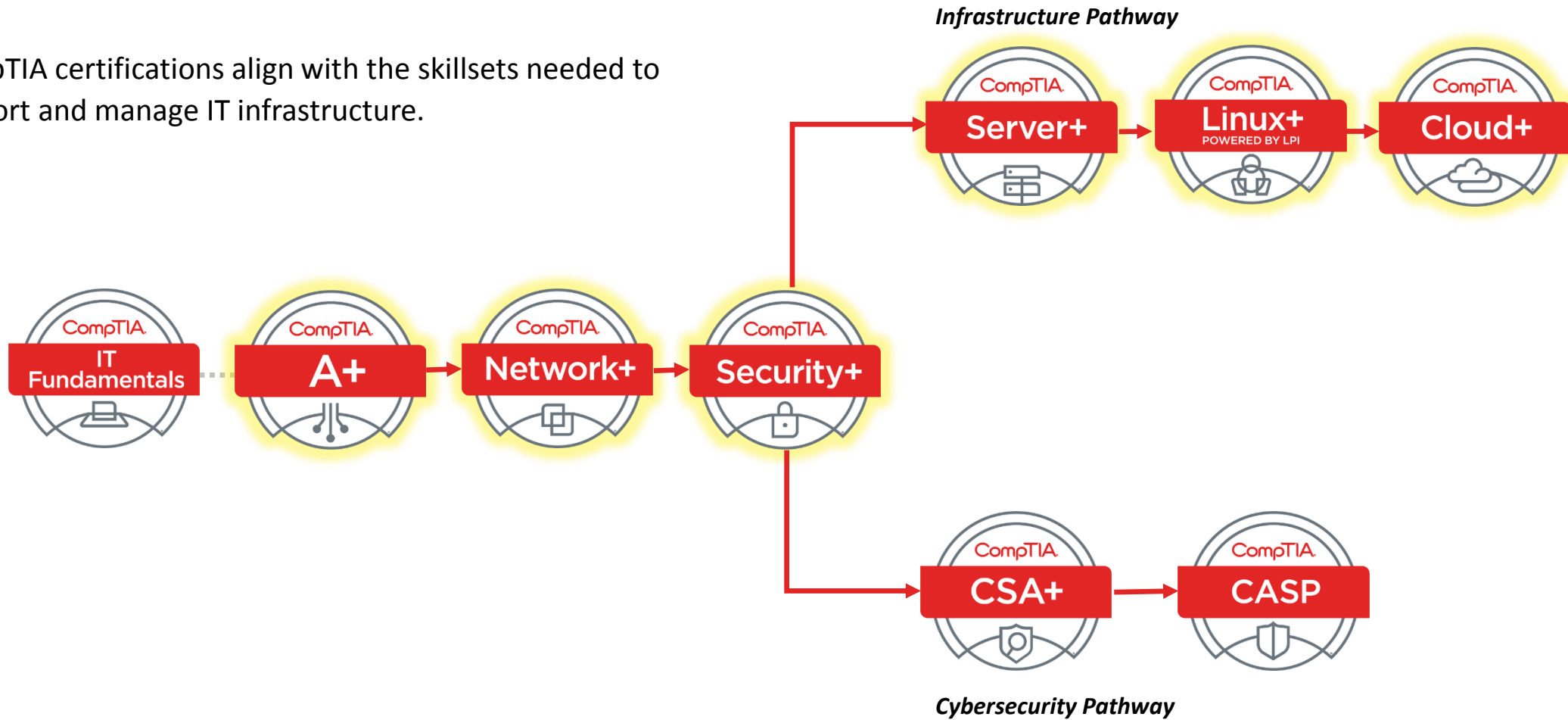


There are many different IT roles  
within the Framework

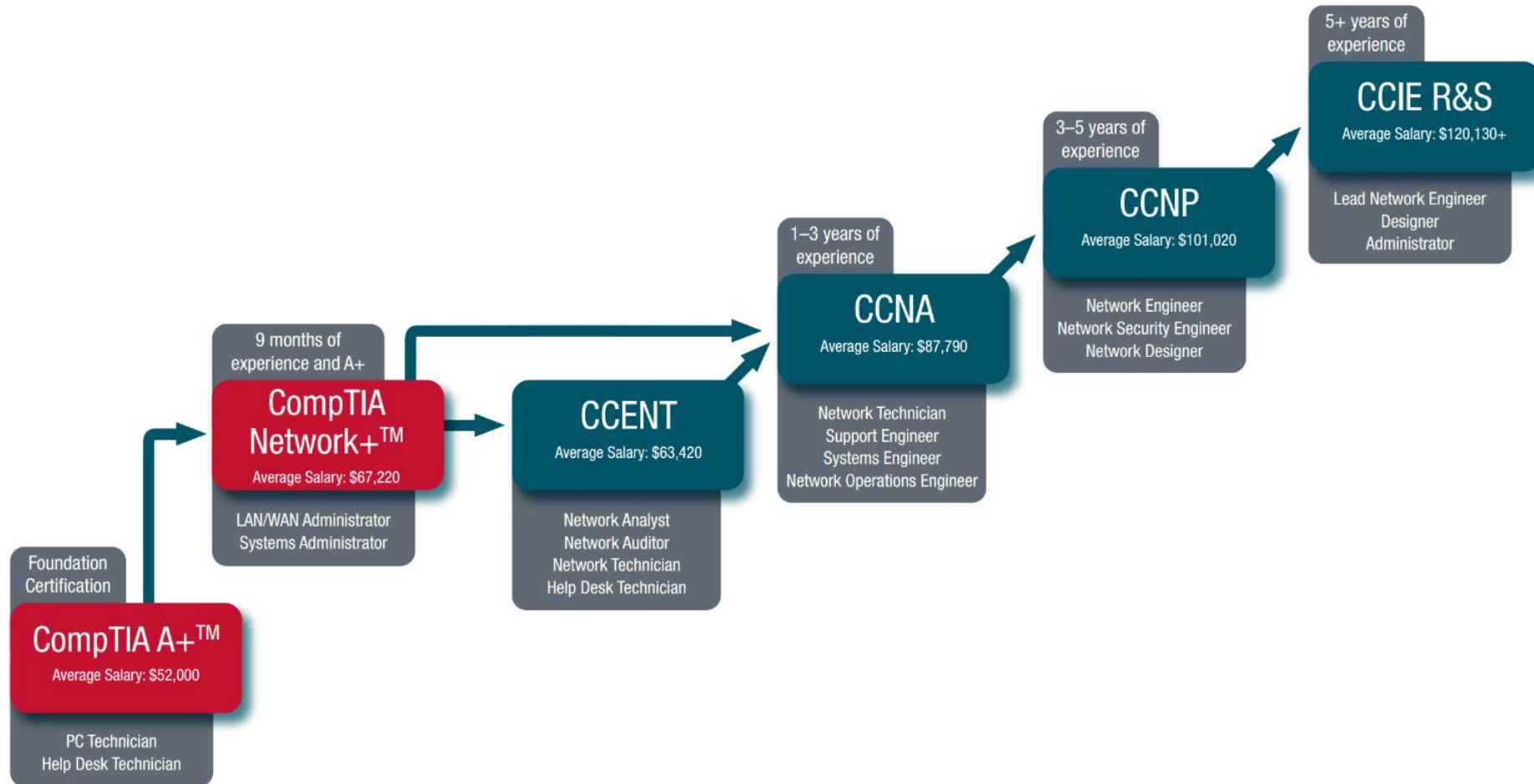
# The IT Infrastructure Pathway

Certifications and skill sets to advance your career

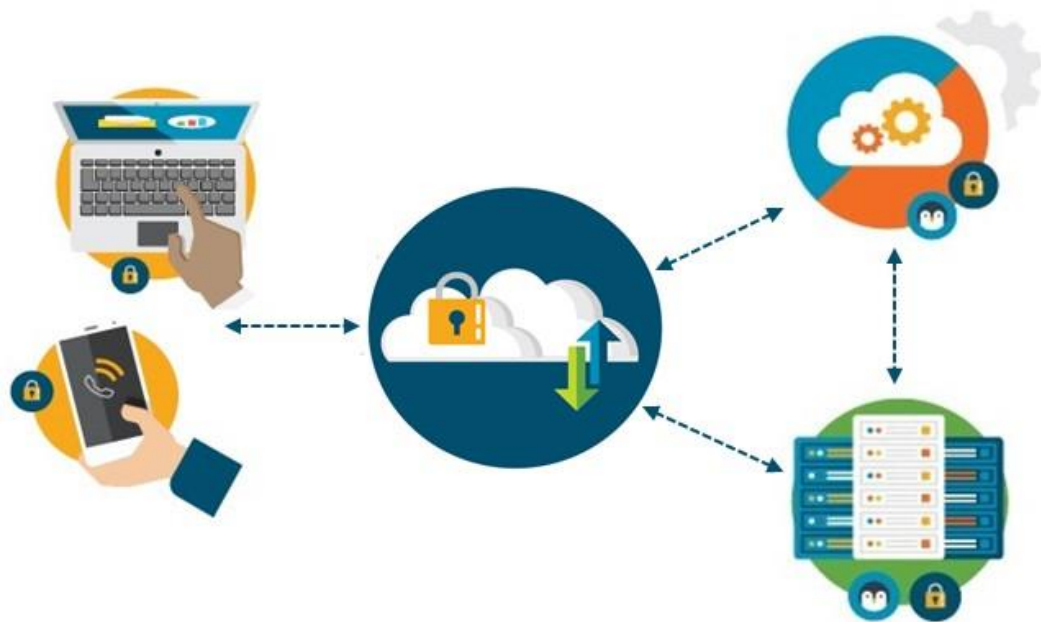
CompTIA certifications align with the skillsets needed to support and manage IT infrastructure.



# CompTIA IT Infrastructure Certification Pathway



More than one way to get there



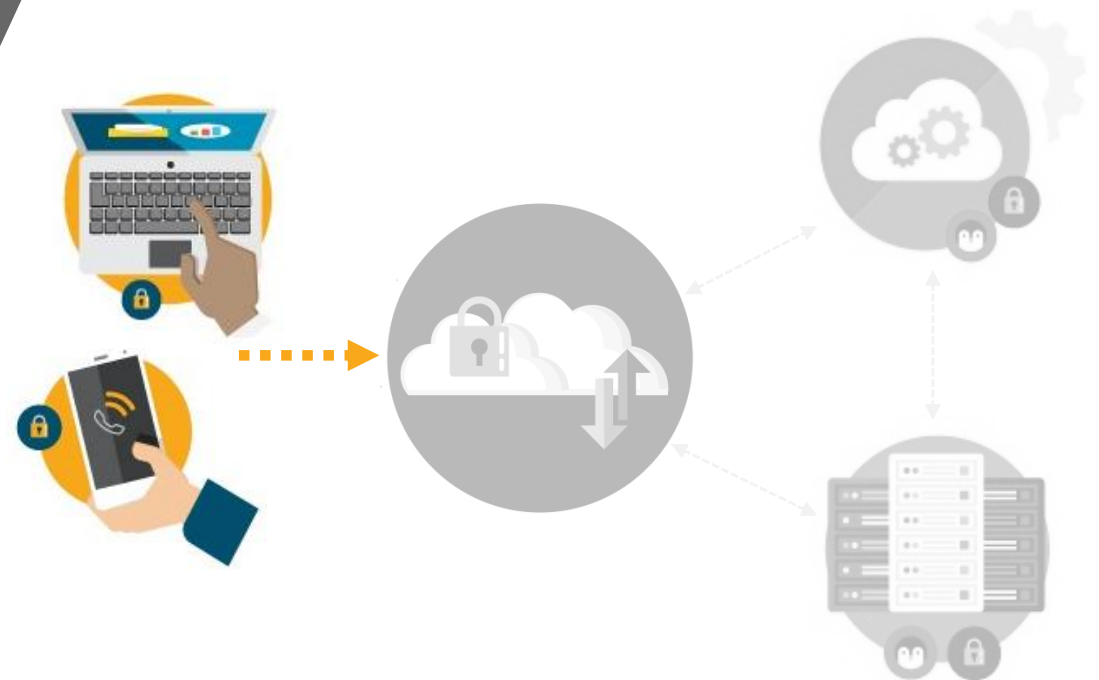
# IT Infrastructure and CompTIA Certifications

Infrastructure is the bedrock of IT operations. Some amount of IT infrastructure is needed for any business to function. Today's setup requires skills in endpoint support, physical server maintenance, virtual system administration, network configuration, and storage planning. Security is a critical part of each of these responsibilities.



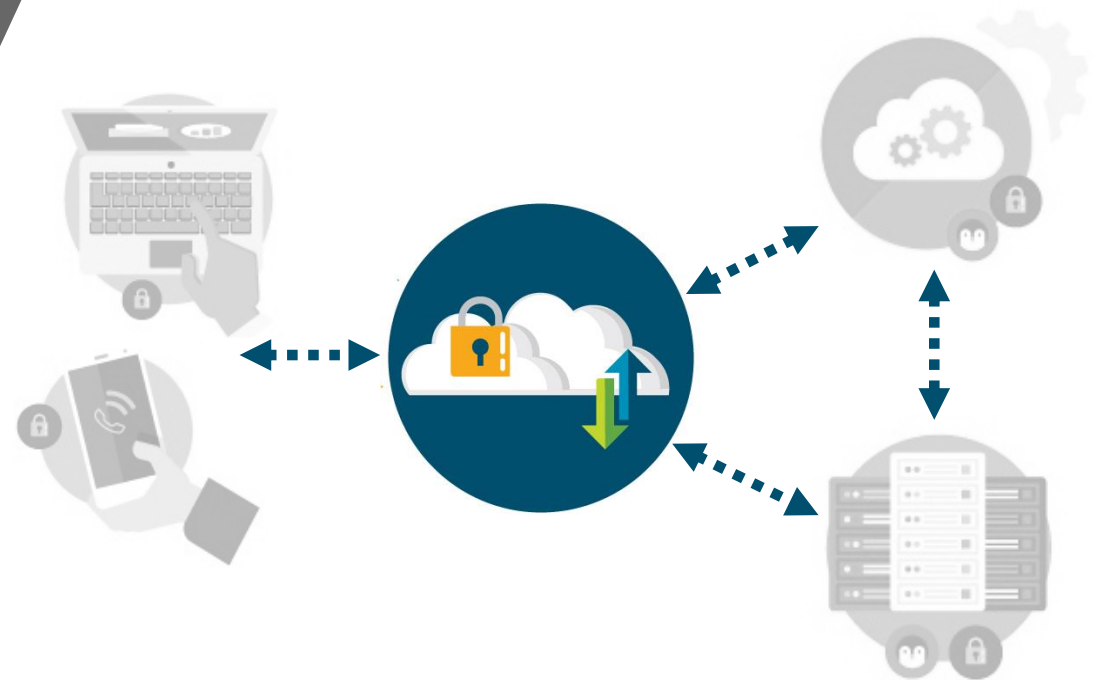
# Endpoint support, device connectivity, and security

Working from network endpoints inward, CompTIA A+ focuses on user support and device connectivity. Its primary objective is to validate the skills needed to support a user and their ability to connect to the data they need to do their job with whatever device they're using. CompTIA A+ validates skills needed to support hardware and software for the devices that connect to the Internet – whether the device is a PC, laptop, smartphone, or IoT device.



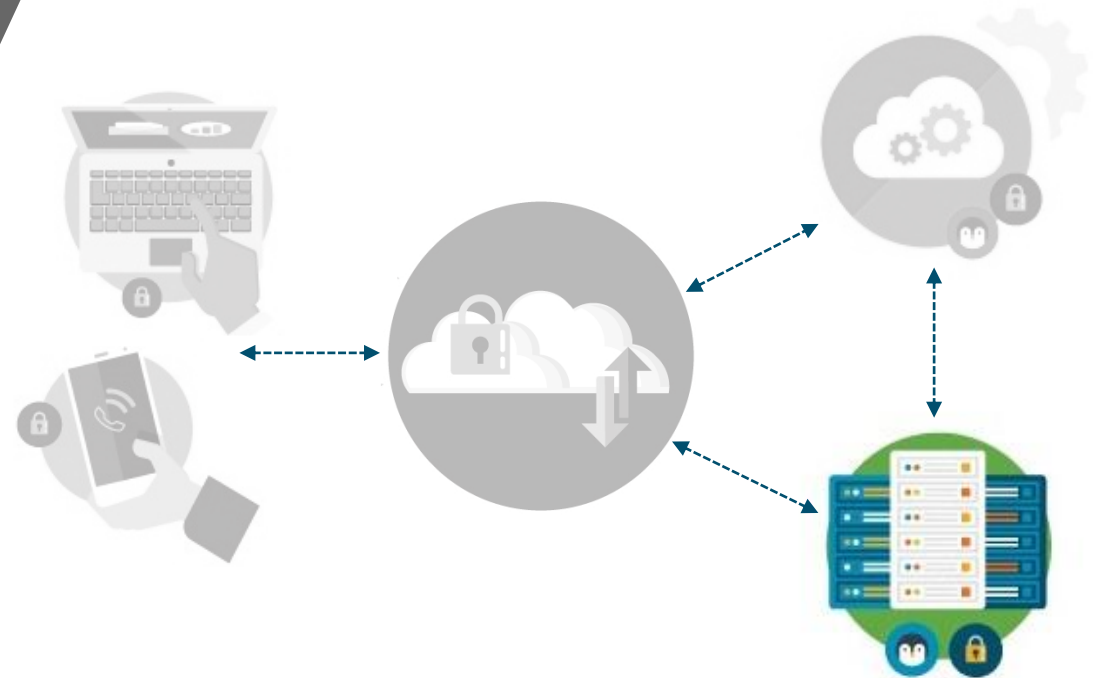
# Network configuration, management, and security

While A+ considers connectivity *from the perspective of the user and their device*, Network+ takes the opposite view. Its focus is on the *connections from (and between) the core systems outward* to the endpoint devices. It validates the skills used in managing and administering the connections that enable communications between and among systems and users.



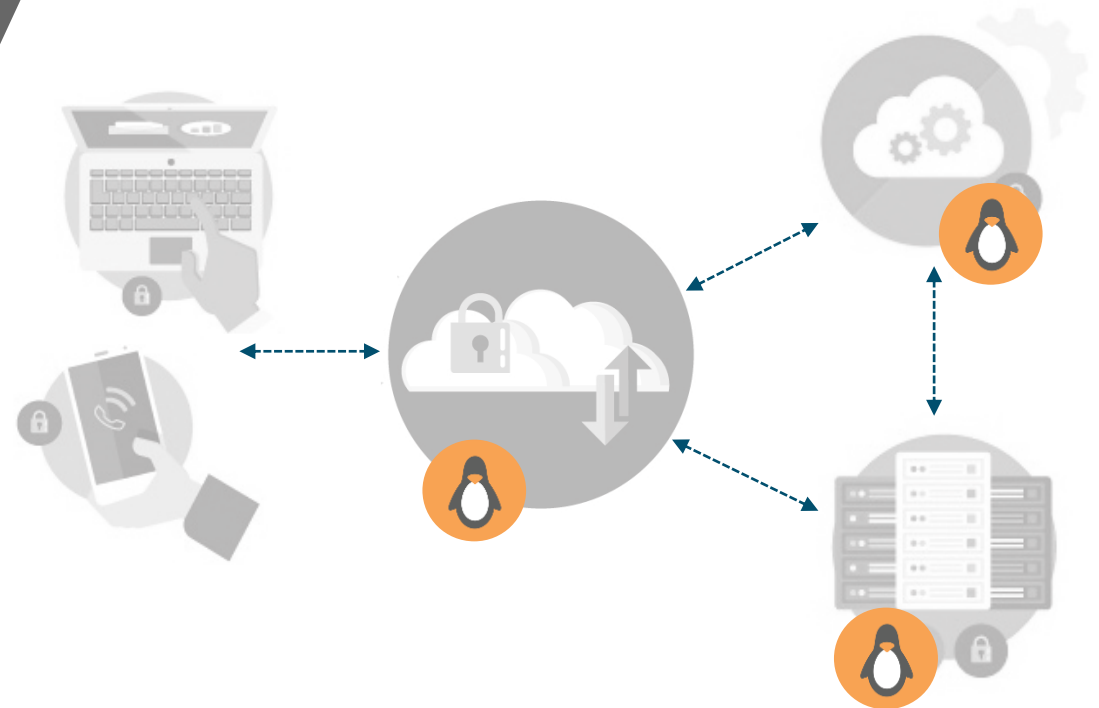
# Physical server maintenance and support

Linux+, Server+ and Cloud+ complement Network+ with a focus on the systems themselves. Server+ validates the knowledge and skills required to build, maintain, troubleshoot, secure and support server hardware and software technologies with a focus on physical server administration.



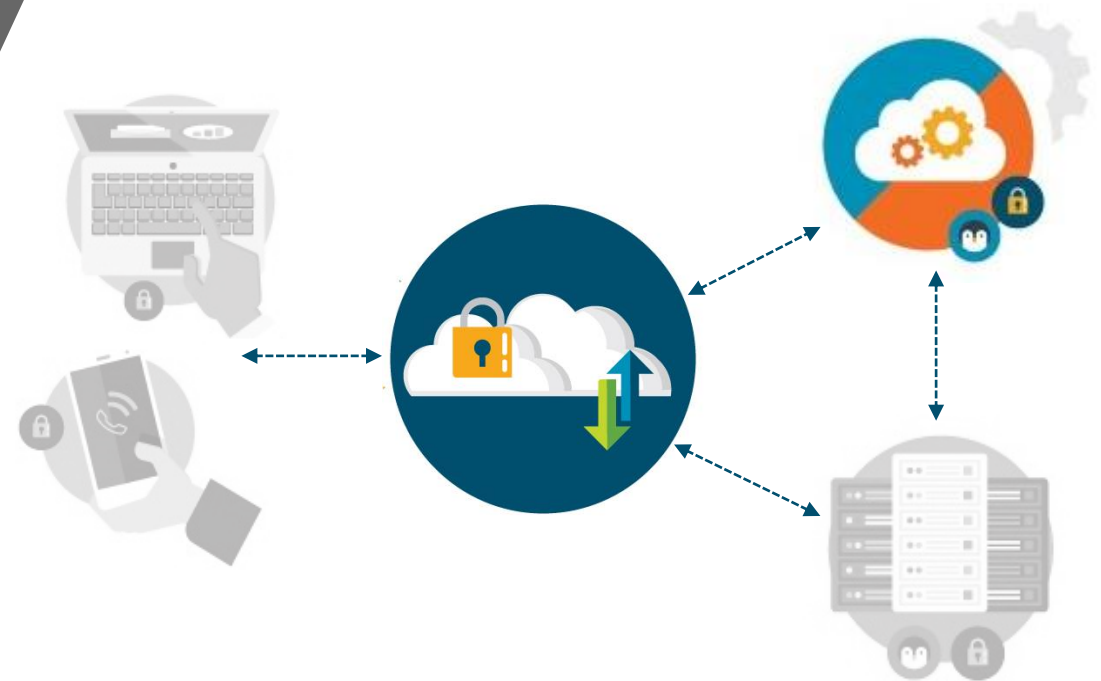
# Installing, configuring, and maintaining Linux systems

Linux is everywhere in IT – it powers the cloud and a vast majority of web servers, not to mention tens of millions of Android devices. The dominance of Linux in the data center creates a need for IT infrastructure specialists to develop skills with the Linux operating system. Linux+ meets that need with a focus on Linux system administration.



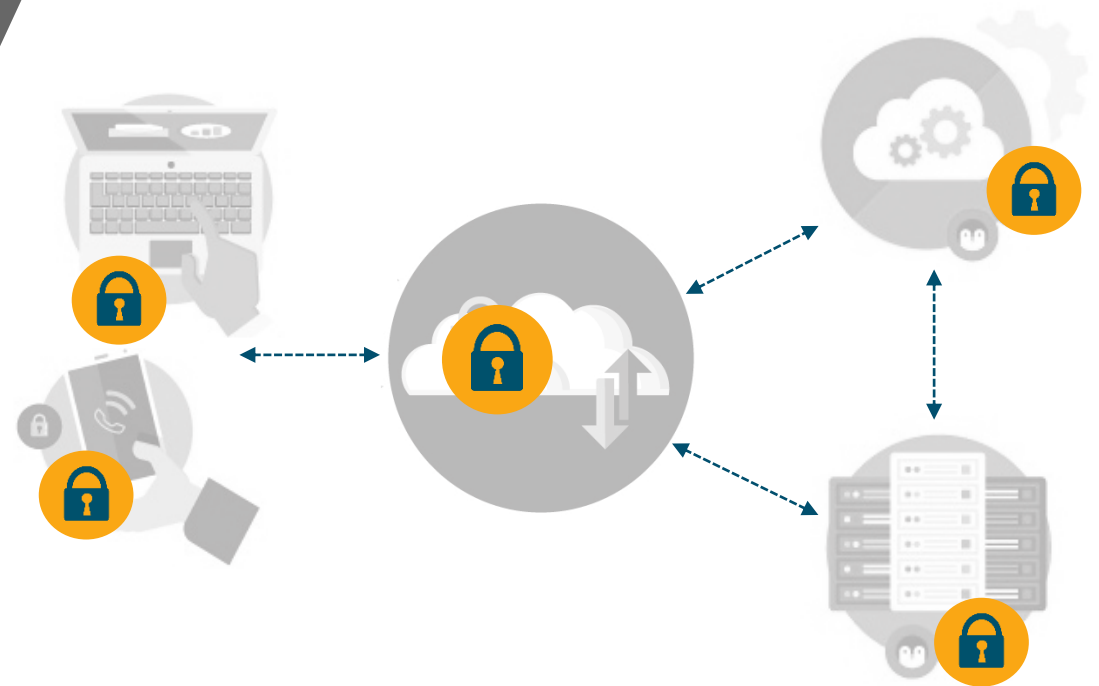
# Virtual systems administration and hybrid cloud

Cloud+ expands on needed data center management skills to address virtual systems administration and hybrid cloud operations. With a focus on deploying solutions shaped to meet business requirements, Cloud+ requires the ability to implement and manage the right combination of compute, network, and storage resources to realize the benefits of rapid elasticity, robust self-service and measured use.



# And security . . .

No matter your job role within IT, an awareness of how your activities and work product impact an organization's security posture is a key part of your job. For IT infrastructure professionals, Security+ offers validation of the knowledge and skills required as a baseline. The cybersecurity skills gap cannot be closed by specialists alone; instead every IT pro will need to gain cyber competencies. It is the distribution of *security knowledge throughout an organization* that best equips an organization to mitigate risk in an age where every organization is a digital one.



# Telling It Like It Is: An Interview with Josh Clough

Tales from the Field

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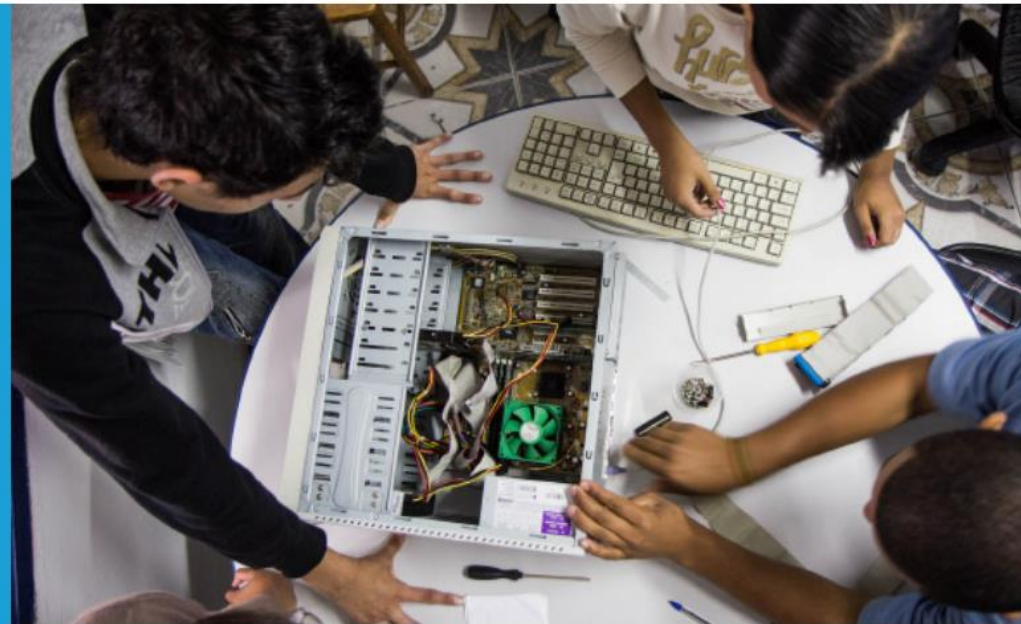
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