

CompTIA Server+ (SK0-005)

This entry-level CompTIA Server+ training covers SK0-005 exam objectives so you can earn the Server+ certification. By earning the CompTIA Server+ certification, you're proving that you're broadly competent with server installation, maintenance and management. For supervisors, this CompTIA training can be used for SK0-005 exam prep, onboarding new systems administrators, individual or team training plans, or as a CompTIA reference resource.

[CBT Nuggets course material](#) →

WEEK 1

Understand the Point of Servers

151 min.

Introducing Server Foundations	2
Clients and Servers	9
Networking Servers	10
File Servers	6
Web Servers	6
How Modern Apps Work	11
App Servers	7
Database Servers	7
Summarizing Server Foundations	1

Identify and Maintain Server Hardware Racking and Cabling Solutions

Overview	1
Introducing the Physical Installation of Servers	1
Server Form Factors	12
Racks, Units, and Rails	11
Power Consumption and Electrical Concepts	9
Power Management Equipment	9
Network Cabling and Management	5
Copper (aka Twisted Pairs)	7
Fiber	12
SFPs (and More)	9
Summarizing the Physical Installation of Servers	1

Identify, Install, and Maintain Internal Server Hardware Components

Overview	1
Introducing Server GUTS!	1

Power Supplies	5
Storage Bays (and Form Factors)	6

WEEK 2

157 min.

RAM	6
CPUs	5
NICs	4
Fans	3
Remote Access Cards	10
RAID Controllers	4
Summarizing Hardware Internals of Servers	1

Evaluate and Deploy Server Storage Including RAID Configurations

Overview	1
Introducing Server Storage Operations	1
Drive Types	12
Local Storage	5
NAS	7
SAN	7
HyperConverged Infrastructure (HCI)	4
RAID Concepts	8
RAID 0 and RAID 1	14
RAID 5 and RAID 6	13
RAID 1+0 (aka RAID 10)	6
Summarizing Server Storage Concepts	1

Install Server Operating Systems

Overview	1
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Introducing Server OS Installation	1
Installation Options and Methods	11
Creating Bootable Media	14
Installation on a Physical Server	7
Prepping a Virtual Environment for OSs	9

WEEK 3

152 min.

PXE Installation	9
P2V	8
Summarizing OS Installation	1

Configure and Maintain Server Functions and Features

Overview	1
Introducing Server Roles and Features	1
The Domain Controller	22
The Fileshare	8
The Web Server (IIS)	10
The Web Server (Apache)	6
The Print Server	8
Other Important Server Roles and Features	15
Summarizing Server Roles and Features	1

Understand the Concepts of Securing Data on Servers

Overview	1
Data Security Foundations	1
Who Needs Data Security?	17
Data at Rest vs Data In Motion	6

Encrypting Data In Motion	18
Encrypting Data at Rest	6
Retaining Data	6
Control Access to Data	5

WEEK 4

153 min.

Summarizing Data Security Concepts	1
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Configure Server Network Settings

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Introducing Server Networking Configurations	2
Refreshing the OSI Model and TCP/IP	17
How DHCP Works	9
Deploy the DHCP Server	13
Configure Dynamic or Static IP Addresses on Windows	8
Configure Dynamic or Static IP Addresses on Linux	8
Consider Network Segmentation in the Enterprise	8
Summarizing Server Network Configurations	1

Understand Server Licensing

Overview	1
Introducing Server and Application Licensing	2
Microsoft Windows Server Licensing	17
Virtualization Licensing	8
Volume Licensing	8
Cloud Licensing	7
Linux Licensing	6
Application Licensing	6

Summarizing Server Licensing	1
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Summarize the Purpose and Operation of Virtualization

Overview	1
Introducing Virtualization	1
What is Virtualization?	11
Explain a Hypervisor	13

WEEK 5

151 min.

Explore Virtualized Storage	7
Explore Virtual Networking	8
Create a Guest VM from Scratch in ESXI	8
Validate the Installation	6
Summarizing Virtualization	1

Understand Cloud Computing

Overview	1
Introducing Cloud Computing	1
The Point of the Cloud	14
Cloud Deployment Options	10
Something-Something as a Service (XaaS)	11
The Main Public Clouds	13
Deploying a Server (VM) in the Cloud	11
Summarizing Cloud Computing	2

The Fundamentals of Working with Linux

Overview	1
Introducing Linux Basics	1

Linux Distributions	12
Navigating the CLI and File System	14
Using Text Editors	10
Working with Files	8
Installing Apps via Package Managers (and MORE!)	9
Summarizing Linux Fundamentals	1

WEEK 6

Understand Physical Server Security Measures 163 min.

Overview	1
Introducing Physical Security Strategies	1
Controlling Access to the Property	11
Securing the Exterior of the Building	11
Physical Access to the Data Center	7
Cooling the Data Center	11
Suppressing Fire in the NOC	6
Backup and Data Security	6
Securing the Rack	5
Summarizing Physical Security Measures	1

Understand Identity and Access Management

Overview	1
Introducing Identity Management	1
Local Accounts	12
Domain Accounts	9
Group Policy	14
File and Folder Permissions	8
Cloud-based Accounts	10
Multi-Factor Authentication	9

Summarizing Identity Management	1
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Explain the Importance of Backups, Restores, and Disaster Recovery

Overview	1
Introducing Backups, High Availability, and Disaster Recovery	1
The Kinds of Backups	14
Backup Media	19

WEEK 7

151 min.

Restoring Backups	6
High Availability Concepts	10
Disaster Recovery	12
Summarizing Backups, HA, and DR	1

Secure the Data Center Network

Overview	1
Introducing Network Security in the Data Center	2
Cleaning up the Mess!	12
Designing a Segmented Network	17
Protocols and Protocol Analyzers	14
Network Firewalls (and Other Security Appliances)	11
Controlling Access to the Network	6
Summarizing Network Security	1

Harden a Server After Deployment

Overview	1
Introducing Server Hardening	1

Hardware Hardening	14
Hardening the Operating System	14
Hardening Applications	7
Firewalls and IDS/IPS	9
Updating the OS	10

WEEK 8

156 min.

Summarize Server Hardening Techniques	1
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Understand Techniques for Decommissioning a Server

Overview	1
Introducing How to Decommission a Server	1
The Process to Decom a Server	9
Destroying Hard Drives	9
Physical Removal Considerations	15
Repurposing or Disposing of the Server	8
Review Quiz	12

Summarize scripting basics for server administration

Overview	1
Introducing Scripting Basics	1
The Various Scripting Languages	13
Installing Scripting Languages	13
Hello, World	5
Variables	10
Data Types	11
Conditionals	6
Loops	7

Summarizing Scripting Basics	1
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Explain the Troubleshooting Theory and Methodology

Overview	1
Introducing Troubleshooting Methodology	4
Identify the REAL Problem	7
Theorize (and Gather Info)	8
Test the Theory	9

WEEK 9

167 min.

Create a Plan and Implement the Fix	10
Validate the Implementation	7
Document EVERYTHING	8
Summarizing Troubleshooting Methodology	2

Troubleshoot Common OS Functions

Overview	1
Introducing OS and Software Troubleshooting	1
Categorizing Your Issues	5
Recognizing Common Issues	15
Service and Firewall Issues	10
System Recovery and Snapshots	9
NTP and Logging	8
Insufficient Privileges and Escalation	9
Summarizing OS and Software Troubleshooting	1

Troubleshoot Server Hardware Issues

Overview	1
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Troubleshooting Server Hardware	1
Redundant in Everything	7
Disk Failure	10
Network Failure	8
RAM Failure	8
Power Failure	10
Summarizing Server Hardware Troubleshooting	1

Troubleshoot Server Security Issues

Overview	1
Introducing Server Security Troubleshooting	1
Troubleshooting File Permissions	12
Troubleshooting GPOs	18

WEEK 10

72 min.

Troubleshooting Firewalls	13
Troubleshooting Anti-Virus	6
Summarizing Security Troubleshooting	1

Troubleshooting Server Networking Issues

Overview	1
Introducing Troubleshooting Networking Issues	1
Troubleshooting External Network Issues	18
Troubleshooting Internal Network Issues	17
Network Troubleshooting Tools	12
Summarizing Network Troubleshooting	1