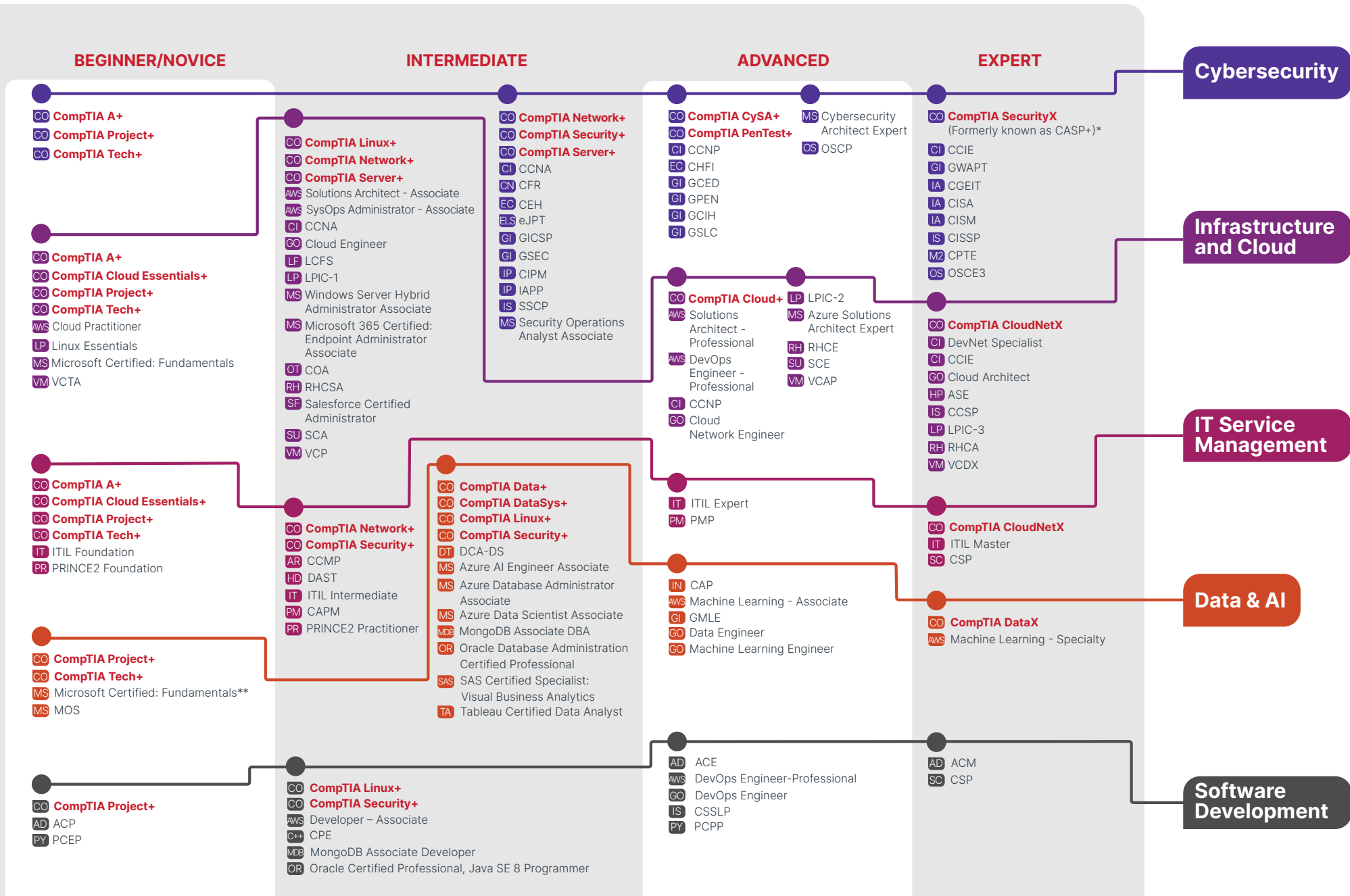


# IT Certification Roadmap

Explore the possibilities with the CompTIA Interactive IT Roadmap at [CompTIA.org/CertsRoadmap](https://CompTIA.org/CertsRoadmap)



Certifications validate expertise in your chosen career.



Digital literacy certifications validating end user skills include IC3 and ECDL/ICDL

Updated 11/2024

\*CASP+ renamed SecurityX November 2024

\*\*Microsoft offers several fundamental certifications that cover a wide range of their technology solutions.

## CO CompTIA Certifications

### BEGINNER/NOVICE

CompTIA A+  
CompTIA Cloud Essentials+  
CompTIA Tech+  
CompTIA Project+

### INTERMEDIATE

CompTIA Data+  
CompTIA DataSys+  
CompTIA Linux+  
CompTIA Network+  
CompTIA Security+  
CompTIA Server+

### ADVANCED

CompTIA Cloud+  
CompTIA CySA+  
CompTIA PenTest+

### EXPERT

CompTIA CloudNetX  
CompTIA DataX  
CompTIA SecurityX

## AD Adobe

### BEGINNER/NOVICE

ACP: Adobe Certified Professional

### ADVANCED

ACE: Adobe Certified Expert

### EXPERT

ACM: Adobe Certified Master

## AR Association of Change Management

### INTERMEDIATE

CCMP: Certified Change Management Professional

## AWS Amazon Web Services

### BEGINNER/NOVICE

AWS Cloud Practitioner

### INTERMEDIATE

AWS Certified Solutions Architect - Associate  
AWS Certified SysOps Administrator - Associate  
AWS Certified Developer - Associate

### ADVANCED

AWS Certified Solutions Architect - Professional  
AWS Certified DevOps Engineer - Professional  
AWS Certified Machine Learning - Associate

### EXPERT

AWS Certified Machine Learning - Specialty

## CI Cisco Systems

### INTERMEDIATE

CCNA: Cisco Certified Network Associate

### ADVANCED

CCNP: Cisco Certified Network Professional

### EXPERT

CCIE: Cisco Certified Internetwork Expert

## C++ C++ Institute

### INTERMEDIATE

CPE: C++ Certified Entry-Level Programmer

## DT Dell Technologies

### INTERMEDIATE

DCA-DS: Dell Technologies Data Science Associate

## EC EC Council

### INTERMEDIATE

CEH: Certified Ethical Hacker

### ADVANCED

CHFI: Computer Hacking Forensic Investigator

## ELS eLearnSecurity

### INTERMEDIATE

eJPT: eLearnSecurity Junior Penetration

## GI GIAC

### INTERMEDIATE

GSEC: GIAC Security Essentials

### ADVANCED

GCED: GIAC Certified Enterprise Defender

GCIH: GIAC Certified Incident Handler

GMLE: GIAC Machine Learning Engineer

GPEN: GIAC Penetration Tester

GSLC: GIAC Security Leadership

### EXPERT

GWAPT: GIAC Web Application Penetration Tester

## GO Google

### INTERMEDIATE

Google Cloud Engineer

### ADVANCED

Google Cloud Network Engineer

Google DevOps Engineer

Google Professional Machine Learning Engineer

Google Professional Data Engineer

### EXPERT

Professional Cloud Architect

## HD HDI Global Certification

### INTERMEDIATE

DAST: Desktop Advanced Support Technician

## HP Hewlett-Packard

### EXPERT

ASE: Accredited Systems Engineer

## IA ISACA

### EXPERT

CISA: Certified Information Systems Auditor

CISM: Certified Information Security Manager

CGEIT: Certified in the Governance of Enterprise IT

## IP IAPP

### INTERMEDIATE

CIPM: Certified Information Privacy Manager

## IN Infirms

### ADVANCED

CAP: Certified Analytics Professional

## IS ISC2

### INTERMEDIATE

SSCP: Systems Security Certified Practitioner

### ADVANCED

CSSLP: Certified Secure Software Lifecycle Professional

### EXPERT

CCSP: Certified Cloud Security Professional

CISSP: Certified Information Systems Security Professional

## IT ITIL

### BEGINNER/NOVICE

ITIL Foundation

### INTERMEDIATE

ITIL Intermediate

### ADVANCED

ITIL Expert

### EXPERT

ITIL Master

## LF The Linux Foundation

### INTERMEDIATE

LCFS: Linux Foundation Certified System Administrator

## LP Linux Professional Institute

### BEGINNER/NOVICE

Linux Essentials

### INTERMEDIATE

LPIC-1

### ADVANCED

LPIC-2

### EXPERT

LPIC-3

## M2 Mile2

### EXPERT

CPTe: Certified Penetration Testing Engineer

## MS Microsoft

### BEGINNER/NOVICE

Microsoft Certified: Fundamentals  
MOS: Microsoft Office Specialist

### INTERMEDIATE

Microsoft 365 Certified: Endpoint Administrator Associate

Microsoft Certified: Azure AI Engineer Associate

Microsoft Certified: Windows Server Hybrid Administrator Associate

Microsoft Certified: Azure Database Administrator Associate

Microsoft Certified: Azure Data Scientist Associate

Microsoft Certified: Security Operations Analyst Associate

### ADVANCED

Microsoft Certified: Azure Solutions Architect Expert

Microsoft Certified: Cybersecurity Architect Expert

## MDB MongoDB

### INTERMEDIATE

MongoDB Associate Developer  
MongoDB Associate DBA (Database Administrator)

## OR Oracle

### INTERMEDIATE

Oracle Database Administration Certified Professional

Oracle Certified Professional, Java SE 8 Programmer

## OS OffSec

### ADVANCED

OSCP: OffSec Certified Professional

### EXPERT

OSCE3: OffSec Certified Expert3

## OT OpenStack

### INTERMEDIATE

COA: Certified Openstack Administrator

## PM PMI

### INTERMEDIATE

CAPM: Certified Associate in Project Management

### ADVANCED

PMP: Project Management Professional

## PR PRINCE2

### BEGINNER/NOVICE

PRINCE2 Foundation

### INTERMEDIATE

PRINCE2 Practitioner

## PY Python Institute

### BEGINNER/NOVICE

PCEP: Certified Entry-Level Python Programmer

### ADVANCED

PCPP: Certified Professional Python Programmer

## RH Red Hat

### INTERMEDIATE

RHCSA: Red Hat Certified System Administrator

### ADVANCED

RHCE: Red Hat Certified Engineer

### EXPERT

RHCA: Red Hat Certified Architect

## SAS SAS

### INTERMEDIATE

Certified Specialist Visual Business Analytics

## SC Scrum Alliance

### EXPERT

CSP: Certified Scrum Professional

## SF Salesforce

### INTERMEDIATE

Salesforce Certified Administrator

## SU SUSE

### INTERMEDIATE

SCA: SUSE Certified Administrator

### ADVANCED

SCE: SUSE Certified Engineer

## TA Tableau

### INTERMEDIATE

Tableau Certified Data Analyst

## VM VMware

### BEGINNER/NOVICE

VCTA: VMware Certified Technical Associate

### INTERMEDIATE

VCP: VMware Certified Professional

### ADVANCED

VCAP: VMware Certified Advanced Professional

### EXPERT

VCDX: VMware Certified Design Expert