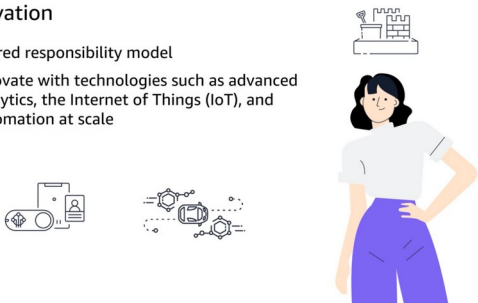


Innovation

Shared responsibility model


Innovate with technologies such as advanced analytics, the Internet of Things (IoT), and automation at scale



Productivity:

Infrastructure and security

Automate compliance





AWS Global Cloud Infrastructure is the most:

- Secure
- Extensive
- Reliable

On-Premises Job Roles

In this lesson, you will learn about common on-premises IT job roles and responsibilities.

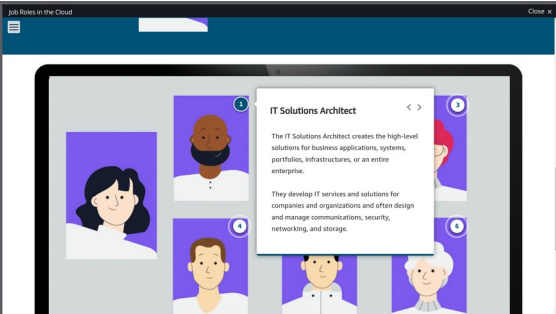
Each organization has a different way to structure their IT department; there is no set rule. Today, you will learn about the critical roles of an on-premises IT department.



Mary is ready to review her current on-premises IT team. To learn more about her current team's structure, choose each of the numbered markers.

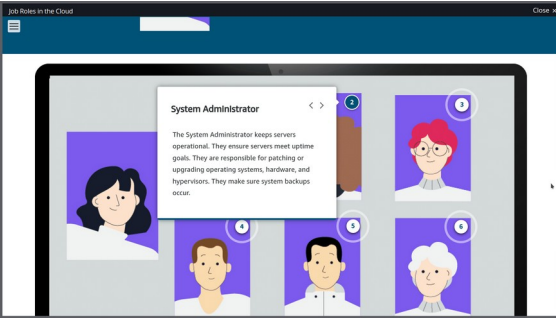
IT Solutions Architect

The IT Solutions Architect creates the high-level solutions for business applications, systems, portfolios, infrastructures, or an entire enterprise. They develop IT services and solutions for companies and organizations and often design and manage communications, security, networking, and storage.



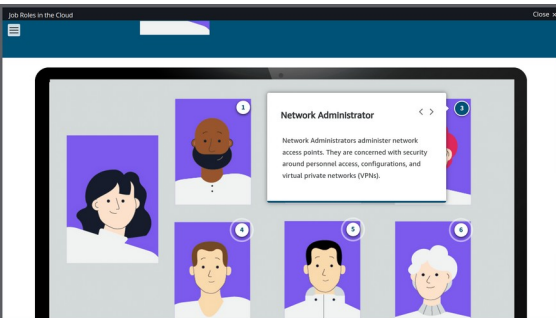
System Administrator

The System Administrator keeps servers operational. They ensure servers meet uptime goals. They are responsible for patching or upgrading operating systems, hardware, and hypervisors. They make sure system backups occur.



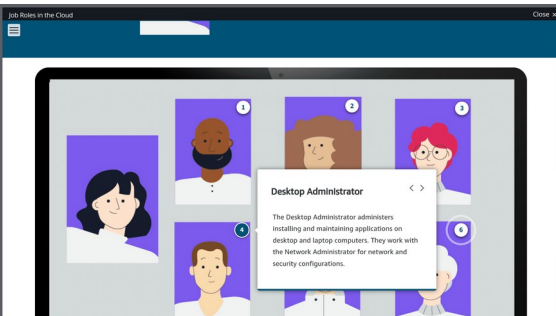
Network Administrator

Network Administrators administer network access points. They are concerned with security around personnel access, configurations, and virtual private networks (VPNs).



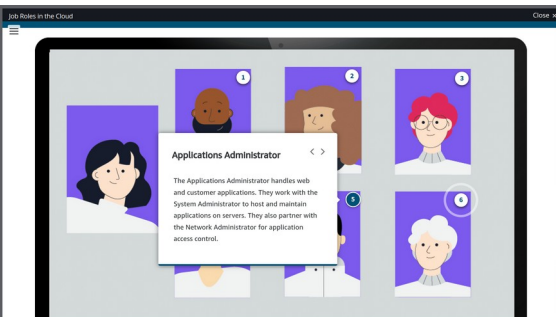
Desktop Administrator

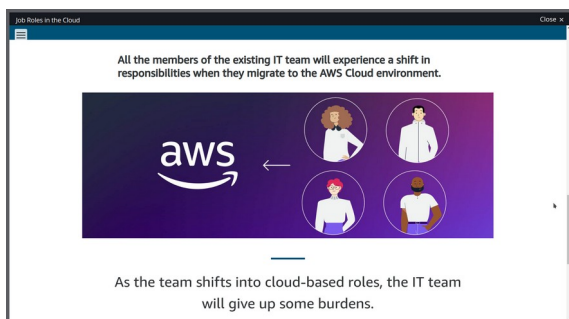
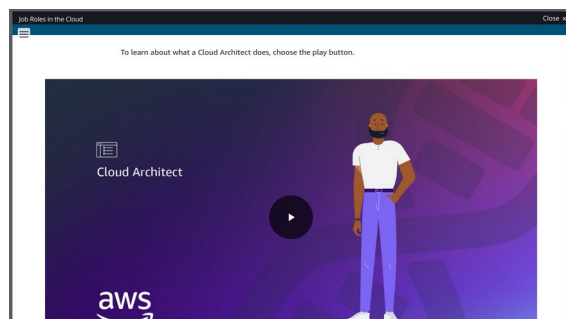
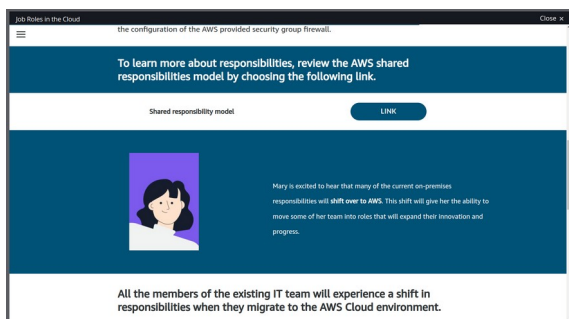
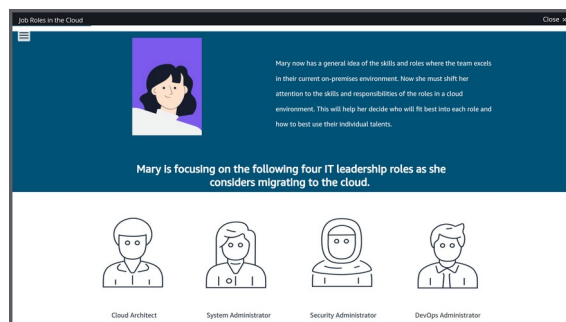
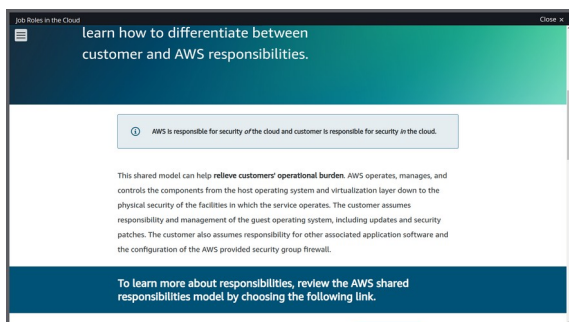
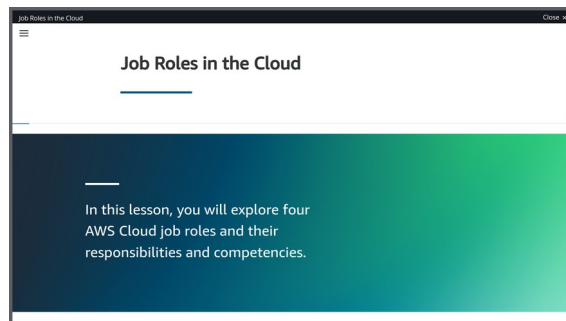
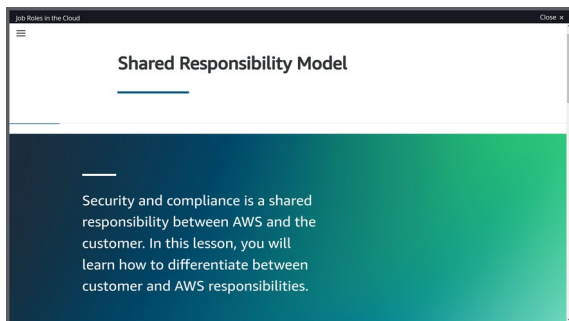
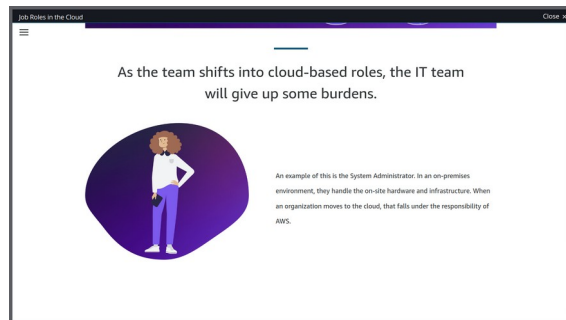
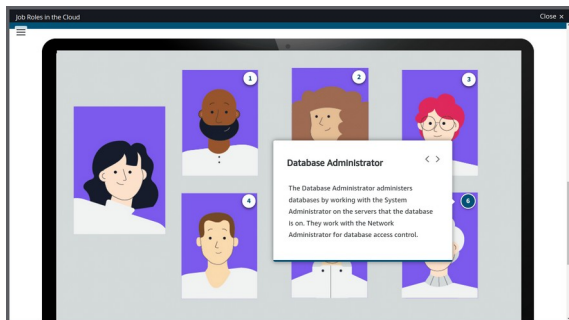
The Desktop Administrator administers installing and maintaining applications on desktop and laptop computers. They work with the Network Administrator for network and security configurations.



Applications Administrator

The Applications Administrator handles web and customer applications. They work with the System Administrator to test and maintain applications on servers. They also partner with the Network Administrator for application access control.






Builds the cloud architecture blueprint

Highly available
Cost-efficient
Scalable



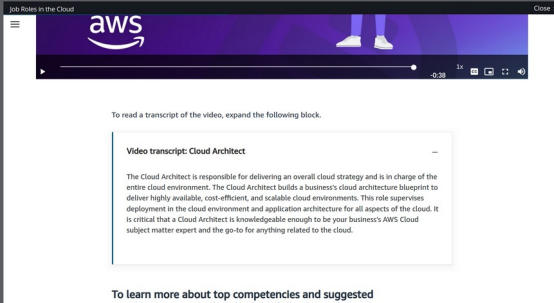


Supervises deployment in the cloud environment

Application architecture

All aspects of the cloud

System Administrators are responsible for the overall performance of cloud systems.

To read a transcript of the video, expand the following block.

Video transcript: Cloud Architect

The Cloud Architect is responsible for delivering an overall cloud strategy and is in charge of the entire cloud environment. The Cloud Architect builds a business's cloud architecture blueprint to deliver highly available, cost-efficient, and scalable cloud environments. This role supervises deployment in the cloud environment and application architecture for all aspects of the cloud. It is critical that a Cloud Architect is knowledgeable enough to be your business's AWS Cloud subject matter expert and the go-to for anything related to the cloud.

To learn more about top competencies and suggested certifications, expand each of the following two sections.

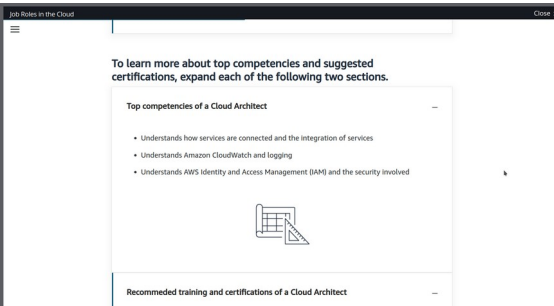
Manages configurations



Completes detailed tasks



Assists with setting up and accessing database servers in the cloud

To learn more about top competencies and suggested certifications, expand each of the following two sections.

Top competencies of a Cloud Architect

- Understands how services are connected and the integration of services
- Understands Amazon CloudWatch and logging
- Understands AWS Identity and Access Management (IAM) and the security involved

Recommended training and certifications of a Cloud Architect

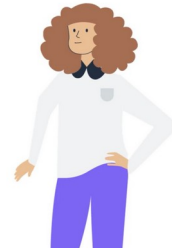
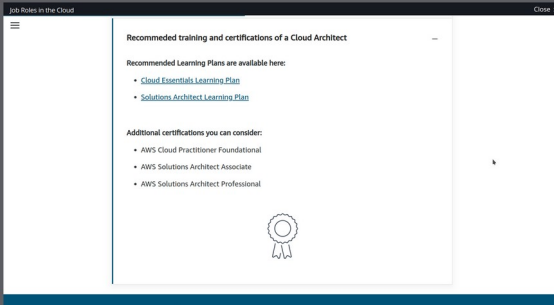
Recommended Learning Plans are available here:

- [Cloud Essentials Learning Plan](#)
- [Solutions Architect Learning Plan](#)

Additional certifications you can consider:

- AWS Cloud Practitioner Foundational
- AWS Solutions Architect Associate
- AWS Solutions Architect Professional

Deploys, configures, and monitors

Recommended training and certifications of a Cloud Architect

Recommended Learning Plans are available here:

- [Cloud Essentials Learning Plan](#)
- [Solutions Architect Learning Plan](#)

Additional certifications you can consider:

- AWS Cloud Practitioner Foundational
- AWS Solutions Architect Associate
- AWS Solutions Architect Professional

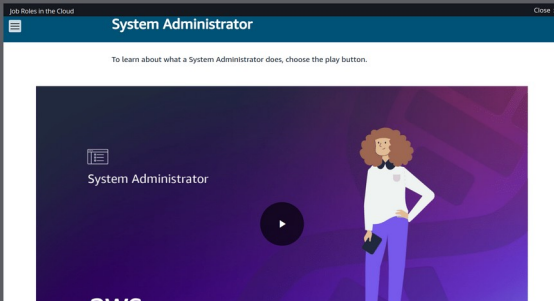
Adaptable and proficient

Requirements gathering

Deployment planning

Configuration management

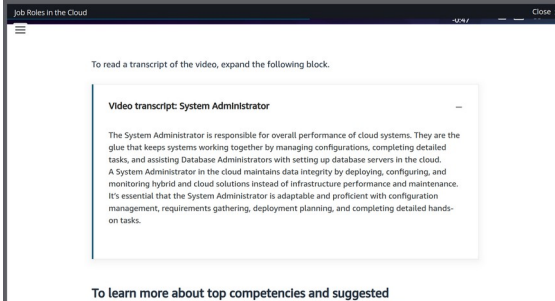
Detailed hands-on tasks



To learn about what a System Administrator does, choose the play button.

System Administrator

aws

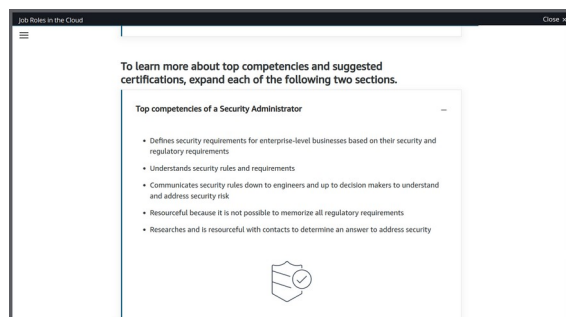
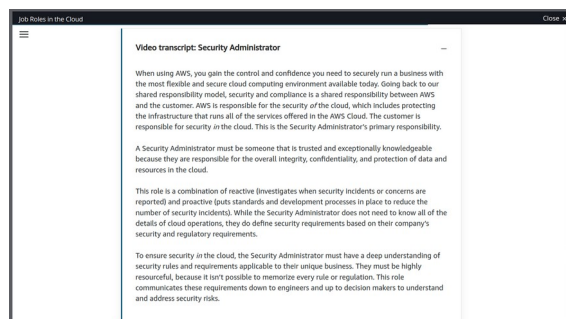
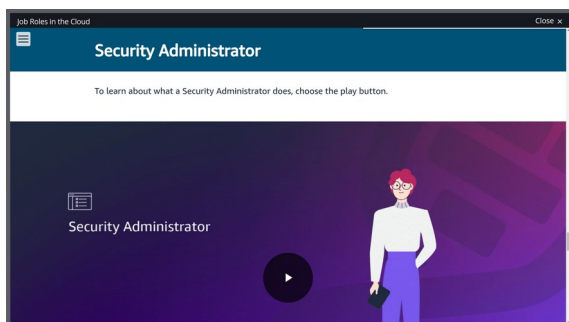
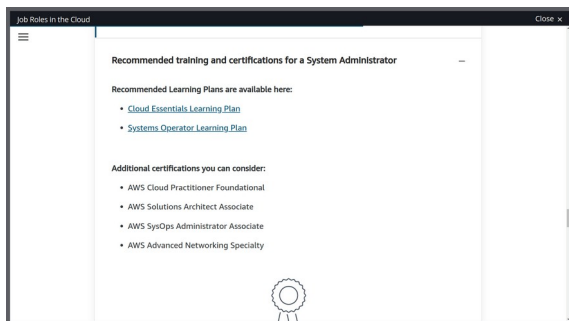
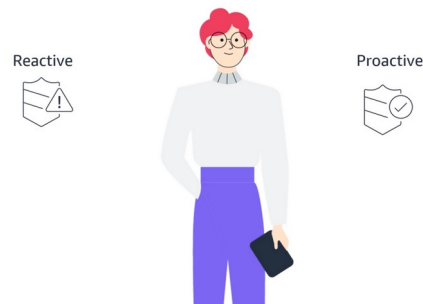
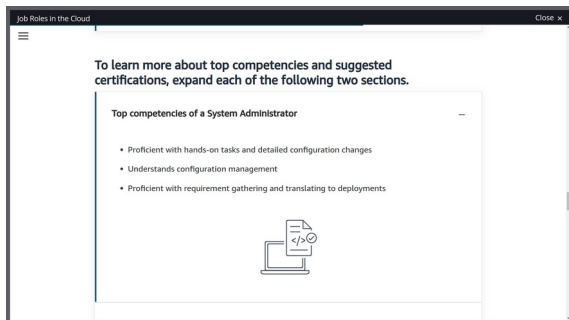


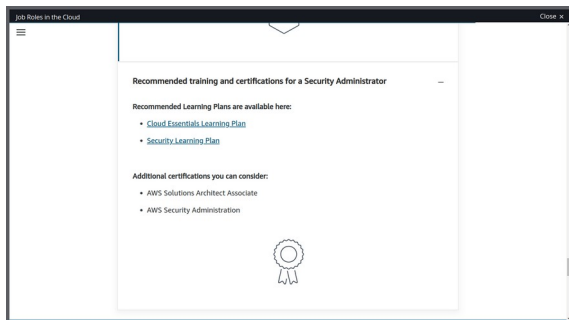
To read a transcript of the video, expand the following block.

Video transcript: System Administrator

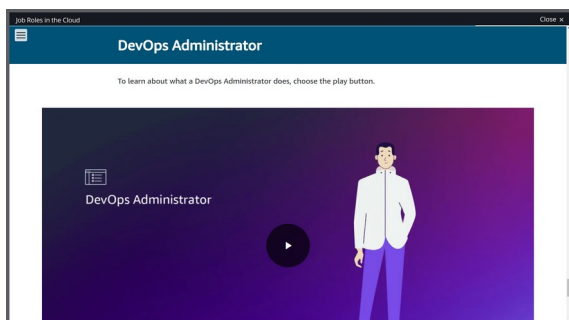
The System Administrator is responsible for overall performance of cloud systems. They are the glue that keeps systems working together by managing configurations, completing detailed tasks, and assisting Database Administrators with setting up database servers in the cloud. A System Administrator in the cloud maintains data integrity by deploying, configuring, and monitoring hybrid and cloud solutions instead of infrastructure performance and maintenance. It's essential that the System Administrator is adaptable and proficient with configuration management, requirements gathering, deployment planning, and completing detailed hands-on tasks.

To learn more about top competencies and suggested certifications, expand each of the following two sections.





Manages release cycle so there is enough pipeline to evaluate changes

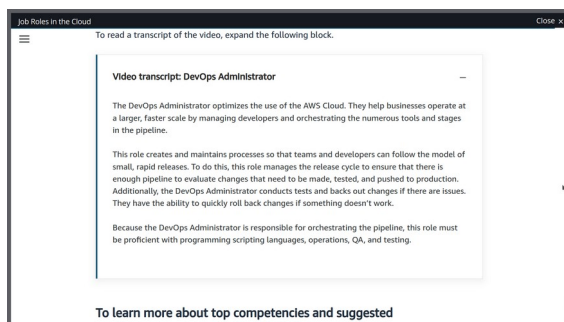


Proficient with:

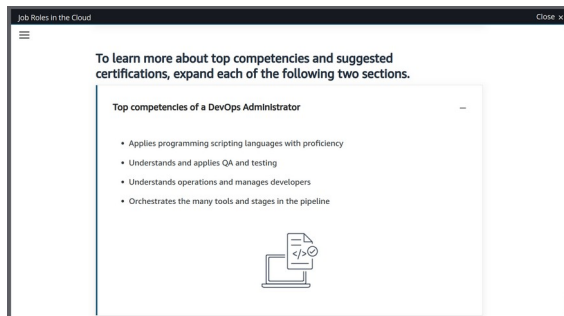
- Programming scripting languages
- Operations
- QA
- Testing



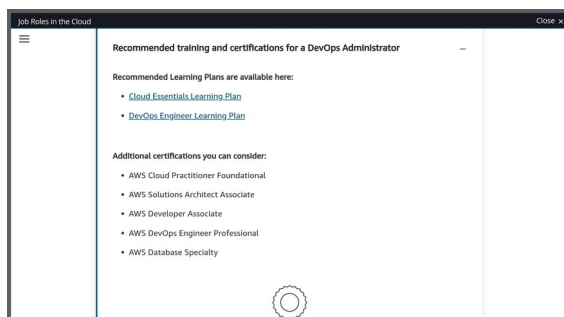
Help businesses operate at a larger, faster scale.



Manage developers and orchestrate numerous tools and stages in the pipeline.



Teams and developers can follow small, rapid releases.




Job Roles in the Cloud

Map On-Premises Job Roles to Job Roles in the Cloud

In this lesson, you will explore how on-premises job roles compare to AWS Cloud job roles.

Job Roles in the Cloud




Mary has a good idea of high-level AWS Cloud roles and wants to determine how the roles compare from on-premises to an AWS Cloud environment. She will need to evaluate her current team and assess where they will fit in a new cloud-based structure.

The greatest impact for the CTO is that her leadership-level team will become more streamlined and create efficiencies and opportunities for innovation. Because of shared responsibilities, some responsibilities will fall to the AWS Cloud team to manage that previously had to be managed by the on-premises team.

Job Roles in the Cloud

manage that previously had to be managed by the on-premises team.

The Database Administrator role provides an example of how moving to the cloud can create opportunities for innovation.



On-premises Database Administrators spend a lot of time worrying about issues such as patches, updates, procurement, and other maintenance tasks. Moving to the cloud means that many of those tasks are now handled by AWS. This frees up some time for the Database Administrator to explore innovations to optimize their database or investigate efficiency models.


To learn about which role translates to the Cloud Architect, choose each of the markers.

Job Roles in the Cloud

Expand the following block to learn more about the Cloud Architect role.

Cloud Architect

This is typically a lateral move for an IT Solutions Architect. Their day-to-day concern changes from on-premises issues with hardware, HVAC, or server upgrades, for example, to a focus on cloud technology. An example of a task for a Cloud Architect might be to assist a System Administrator who needs help with an integration.



Job Roles in the Cloud

To learn about which roles translate to AWS System Operations and AWS Security Administrator roles, choose each of the markers.

System, Network, and Desktop Administrators

System Administrators install, support, and maintain computer systems and servers.

Network Administrators design, install, configure, and maintain LAN and WAN.

Security administrators install, configure, manage, monitor, and enforce security solutions.

Desktop Administrators deploy, configure, manage, monitor, and enforce security solutions.

Choose each tab to learn about the AWS System Operations and AWS Security Administrator roles.

Job Roles in the Cloud

To learn about which roles translate to AWS System Operations and AWS Security Administrator roles, choose each of the markers.

System, Network, and Desktop Administrators

Security administrators install, configure, manage, monitor, and enforce security solutions.

Desktop Administrators deploy, configure, secure, manage, and monitor devices and applications.

Select marker 4 to see how the migration to the cloud can impact this team.

Choose each tab to learn about the AWS System Operations and AWS Security Administrator roles.

Job Roles in the Cloud

To learn about which roles translate to AWS System Operations and AWS Security Administrator roles, choose each of the markers.

AWS System Operations Professional and AWS Security Administrators

When an organization migrates to the cloud, there is no longer a need for high-level administrators for each of the on-premises roles.


Choose each tab to learn about the AWS System Operations and AWS Security Administrator roles.

Job Roles in the Cloud

Choose each tab to learn about the AWS System Operations and AWS Security Administrator roles.

AWS SYSTEM OPERATIONS

As an example, an on-premises System Administrator might move into the AWS System Operations (SysOps) role. In this role, they oversee the server, network, and desktop teams.




Job Roles in the Cloud

Choose each tab to learn about the AWS System Operations and AWS Security Administrator roles.

AWS SYSTEM OPERATIONS

The team member who was the Network or Security Administrator often fills the AWS Security Administrator role.



To learn about which roles translate to DevOps, choose each of the markers.

Job Roles in the Cloud

To learn about which roles translate to AWS System Operations and AWS Security Administrator roles, choose each of the markers.

Database and Application Development Administrators

Database Administrators direct or perform installation and maintenance of databases in the IT environment.

Application Development Administrators keep the organization's applications up and running.

Choose marker 6 to see how these roles translate into the AWS Cloud model.

