



AWS Certified
SysOps Administrator



Learning Collaborations



Global Certifications



About the **AWS SysOps Administrator Program**

This popular AWS SysOps Administrator Associate Training is packed with over practical based training, hands-on lessons and a full-length practice exam simulation. We believe in using practical exercises to improve memory retention and contextualize knowledge. We have included many hours of hands-on guided exercises, so you get to build a practical skillset. The course also includes many visual slides to help you understand the concepts. All practical exercises are backed by architectural diagrams so you can visualize what you're building and operating on Amazon Web Services.

With this AWS SysOps Administrator training, you'll learn how to deploy and operate elastic infrastructure with Amazon EC2, Auto Scaling and Elastic Load Balancing, use AWS Lambda for event-driven architectures, operate with AWS Systems Manager, manage EFS file systems and EBS block volumes, deploy infrastructure as code using AWS CloudFormation, networking with Amazon VPC, databases such as RDS and ElastiCache and AWS Route 53 DNS. All of these services and so much more.

Course outcome for **AWS SysOps Administrator Program**

- Amazon EC2, AWS Lambda, Amazon EC2 Auto Scaling, Elastic Load Balancing, EBS, EFS, and AWS Storage Gateway
- AWS Systems Manager, AWS OpsWorks, AWS Elastic Beanstalk, AWS CloudFormation, and Amazon VPC
- Amazon Route 53, Amazon S3, Amazon CloudFront, AWS Organizations, Amazon CloudWatch, AWS CloudTrail
- AWS Config, AWS Service Catalog, AWS Trusted Advisor, AWS IAM, Amazon Inspector, AWS KMS, AWS CloudHSM, AWS WAF & Shield, AWS Artifact, and AWS Directory Services

Prerequisites for **AWS SysOps Administrator Program**

It is recommended that you complete the AWS Solutions Architect Associate or AWS Developer Associate first. This will give you a broader knowledge base and more experience with AWS services. If you don't have these certifications but you have plenty of work experience deploying and operating on AWS then you should be fine.

Modules covered under **AWS SysOps Administrator Program**

Module 1 : Introduction to AWS SysOps Administrator

- Introduction to AWS SysOps Administrator
- AWS Identity and Access Management (IAM)
- Amazon Virtual Private Cloud (VPC)
- AWS Public and Private Services
- Security groups and network ACLs
- Stateful and Stateless Firewalls
- The AWS Shared Responsibility Model
- Installing the CLI and Code Editor

Modules covered under **AWS SysOps Administrator Program**

Module 2 : Compute: Amazon EC2 & AWS Lambda

- Introduction
- Amazon EC2 instances
- Launching and Terminating EC2 Instances
- Modifying EC2 Instances Types
- Amazon EC2 Placement Groups
- Amazon EC2 Pricing Models
- Reserved Instances and Dedicated Hosts
- Choosing an EC2 Pricing Model
- Public Private and Elastic IP addresses
- Elastic Network Interfaces
- Authenticating to AWS Services using Access Keys
- Authenticating to AWS Services using IAM Roles
- Create instance profile and assign IAM role using the CLI
- Private Subnets and Bastion Hosts
- NAT gateways and NAT instances
- Create a NAT Gateway
- Amazon CloudWatch metrics for Amazon EC2
- Publish CloudWatch Metric Manually
- Automatically reporting memory usage with a script
- Unified CloudWatch Agent for Amazon EC2
- IAM Policy Examples for Amazon EC2
- AWS Lambda serverless functions
- Create and invoke a serverless Lambda function using Amazon SNS
- Configure Lambda function to run on a schedule

Modules covered under **AWS SysOps Administrator Program**

Module 3: Scaling Compute: Elastic Load Balancing and Auto Scaling

- Introduction
- High availability with Elastic Load Balancing (ALB and NLB)
- Create an Application Load Balancer (ALB)
- Path-based routing and host-based routing
- Enable Sticky Sessions on an ELB
- [NEW] Sticky Session Configuration Options
- Security Groups for Amazon ELB
- EC2 Auto Scaling, launch configurations, and launch templates
- Auto Scaling health checks (ASG and ELB)
- ASG scaling and termination policies
- Add scaling policy and cause scaling events
- EC2 Auto Scaling lifecycle hooks
- Monitoring and Logging for ELB and EC2 Auto Scaling
- Cleaning up

Modules covered under **AWS SysOps Administrator Program**

Module 4: Storage: Amazon EBS, EFS and AWS Storage Gateway

- Introduction
- Amazon EBS Overview
- Amazon EBS - Deployment and Volume Types
- Creating and resizing Amazon EBS volumes
- Amazon EBS snapshots, AMIs and migrating instances
- Amazon EBS Copying, Sharing and Encryption
- EBS vs instance store
- Using RAID with EBS volumes
- EBS encryption
- [NEW] CloudWatch Metrics for EBS
- Monitoring EBS volumes with Amazon CloudWatch
- [NEW] Amazon Data Lifecycle Manager (DLM)
- Amazon EFS Overview
- Creating and mounting an EFS filesystem
- IAM Policy Examples for Amazon EFS
- Monitoring EFS volumes
- [NEW] Amazon EFS Encryption
- AWS Storage Gateway - File Gateway
- AWS Storage Gateway - Volume Gateway
- AWS Storage Gateway - Tape Gateway

Modules covered under **AWS SysOps Administrator Program**

Module 5 : Operations: AWS Systems Manager and OpsWorks

- Introduction
- AWS Systems Manager Overview
- Create Tags and Resource Groups
- Systems Manager Automation
- Systems Manager Run Command
- Systems Manager Inventory and Patching EC2 Instances
- Systems Manager Configuration Compliance
- Systems Manager Secure Shell
- Systems Manager Parameter Store Overview
- Systems Manager Parameter Store with Lambda
- [NEW] AWS Secrets Manager
- AWS OpsWorks
- Cleaning Up

Module 6 : Automation: AWS Elastic Beanstalk

- Introduction
- AWS Elastic Beanstalk Overview
- Create Single Elastic Beanstalk Environment
- Troubleshooting Elastic Beanstalk Launch Issues
- Elastic Beanstalk Deployment Options
- Create environment for App v2 and swap URLs
- Using custom domains with Elastic Beanstalk
- Elastic Beanstalk Worker Tiers
- High Availability with Elastic Beanstalk
- Monitoring and Logging for Elastic Beanstalk

Modules covered under **AWS SysOps Administrator Program**

Module 7 : Infrastructure Automation: AWS CloudFormation

- AWS CloudFormation overview
- Templates, Stacks, and Stack Sets
- Creating and updating Stacks
- Working with mappings and parameters
- Deploying Nested Stacks
- Change Sets and Drift Detection
- User data with EC2
- CloudFormation helper scripts (cfn-init and cfn-signal)
- Creation and Deletion Policies, DependsOn, and WaitConditions
- Rollbacks and Stack creation failures

Module 8 : Networking: Amazon VPC

- Amazon VPC Refresher
- [NEW] Availability Zone IDs
- CIDR Blocks and IP Subnets
- Create custom VPC
- Internet Gateway and Route Tables
- NAT Gateways and NAT Instances Refresher
- Security Groups Deep Dive
- Network ACL Deep Dive
- VPC Endpoints
- Creating Gateway and Interface Endpoints
- VPC Peering
- AWS VPN and Direct Connect
- VPC Flow Logs
- Use Amazon Athena to Query our Flow Logs

Modules covered under **AWS SysOps Administrator Program**

Module 9 : DNS: Amazon Route 53

- Introduction
- Amazon Route 53 Overview
- Amazon Route 53 Record Types
- Amazon Route 53 Routing Policies
- Creating Amazon Route 53 Records
- Amazon Route 53 Health Checks

Module 10 : Object Storage and Content Delivery: S3 and CloudFront

- Amazon S3 Overview, Storage Classes and Versioning
- MFA Delete and MFA-Protected API Access
- Amazon S3 Lifecycle Policies
- S3 Replication (CRR and SRR)
- S3 Access Control- IAM, Bucket Policies, Bucket ACLs
- S3 Encryption
- Pre-signed URLs
- Creating an Amazon S3 Static Website
- S3 Transfer Acceleration
- S3 Inventory
- Server Access Logging
- S3 Event Notifications and Analytics & Metrics
- Glacier Vault Lock and Vault Access Policies
- S3 & Glacier Select
- Amazon CloudFront Overview and Origins
- Amazon CloudFront with S3 Static Website and OAI
- [NEW] Improving the Cache Hit Ratio

Modules covered under **AWS SysOps Administrator Program**

Module 11 : Databases and Analytics

- Introduction
- Amazon RDS Overview
- Amazon RDS Scaling Up and Scaling Out
- Launch an Amazon RDS Database
- Amazon RDS Read Replicas
- Amazon RDS Multi-AZ
- RDS Automated Backups and Snapshots
- RDS Maintenance Windows
- RDS Encryption
- RDS Monitoring and Logging
- Amazon Aurora Overview
- Amazon Aurora Deployment Options
- [NEW] Aurora Auto Scaling
- Amazon ElastiCache Overview
- Scaling ElastiCache Memcached
- Scaling ElastiCache Redis
- ElastiCache Backup and Monitoring
- [NEW] Amazon ElastiCache Metrics
- [NEW] Amazon DynamoDB
- [NEW] Amazon Elasticsearch

Modules covered under **AWS SysOps Administrator Program**

Module 12 : Management, Governance and Billing

- Introduction
- AWS Organizations Overview
- Service Control Policies (SCPs)
- SCP Strategies and Inheritance
- Create and attach SCPs
- [NEW] AWS Organizations Policies
- Amazon CloudWatch Key Concepts
- CloudWatch Logs and Events
- Track EC2 Termination Events
- AWS CloudTrail
- AWS Config Overview
- Create custom Config rule
- AWS Service Catalog
- AWS Trusted Advisor
- Health Dashboards
- AWS Cost Management Tools

Modules covered under **AWS SysOps Administrator Program**

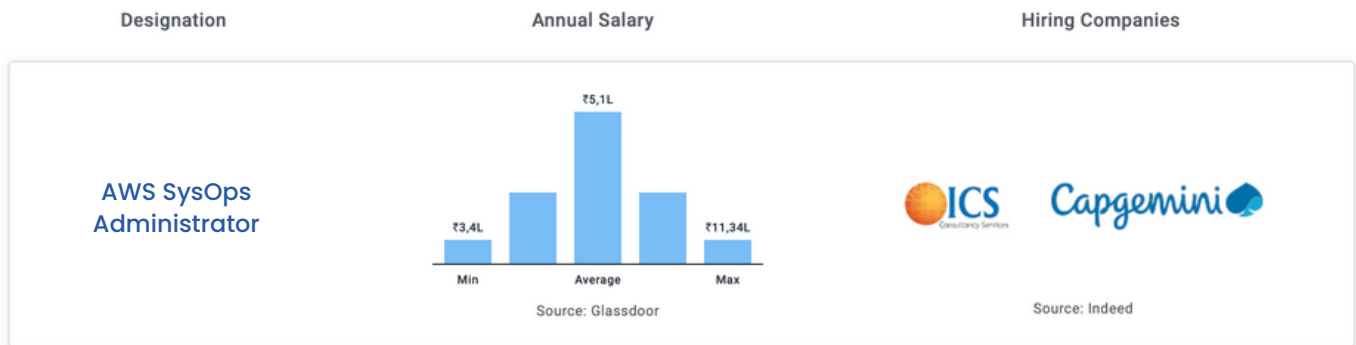
Module 13 : Security, Identity and Compliance

- Introduction
- AWS IAM - Multi-Factor Authentication
- [NEW] Using MFA with the AWS CLI
- AWS Managed and Customer Managed IAM Policies
- IAM Policy Examples
- IAM Policy Evaluation Logic
- Amazon Inspector
- Encryption Overview
- AWS Key Management Service (KMS)
- AWS CloudHSM
- AWS Certificate Manager
- [NEW] Certificate Renewal with ACM
- AWS WAF & Shield
- AWS Artifact
- Directory Services and Federation

Module 14 : Projects And Interviews

- Covering all the concepts
- Project Work
- Resume Preparation
- Interview Question Preparation

Benefits as **AWS Certified SysOps Administrator**



Our Training Benefits as **AWS SysOps Administrator**

- Our complete training is constructed as per the current industry standard.
- Live Project & Industrial Based Training.
- One of the biggest team of Certified Expert & Competent Trainers.
- Easy to understand study material.
- Regular and Weekends classes for IT & Software training is provided.
- Interaction, analysis and case studies are an integral part of the training.
- Smart Labs with Real Latest Equipments.
- Students are free to access the labs for an unlimited number of hours
- Free Study Material, e-PDFs, Video Trainings, Sample Questions.
- Globally Recognized Course Completion Certificate.
- The ability to retake the class at no-charge as often as desired.
- One-on-One attention from instructors.
- Helps students to take knowledge of complex technical concepts.
- Post Training Support will help the students.
- Personality Development & Interview Preparation classes.
- 100% Job Assistance with dedicated training & placement team.



Join One of the Best AWS SysOps Administrator Training Institute in India

(In-Class & Live Online Training by Industry Experts)



5740+

Batches Completed



68806+

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470+

Skilled Instructors



Our Latest Reviews



Hi All, I am Shilpa and i have done my Certification from TechVidya. The study environment is good and trainers are full of knowledge. I personally recommend TechVidya Institute to all the students who looking for quality education and sincere about there future.

I am grateful to TechVidya - both the faculty and the Training & Placement Department. They've made efforts ensuring maximum number of placed students. The Institute started grooming us for placements in the first few months including courses such as Professional Excellence Program and Professional Skills Enhancement. I suggest to join TechVidya which comes under top 10 IT & Software training institute.



Hi I am Amit Kumar and my Enrollment ID with TechVidya is TV230967. I completed my Certification from TechVidya. They provides IT & Software courses in more practical & real scenario basis. Complete project based training help me to sharpen my technical skills.

TechVidya has always believed in helping and guiding its students and it was no different during the placement time. Regular classes held to help us with our aptitude and technical skills. Recommend to all the students who looking for best computer classes with quality education. Thanks TechVidya for explore my career.



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Throughout the Course



Resume & LinkedIn Profile Building



After 70% of the Course Completion



Mock Interview Preparation



After 80% of the Course Completion



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After 90% of the Course Completion



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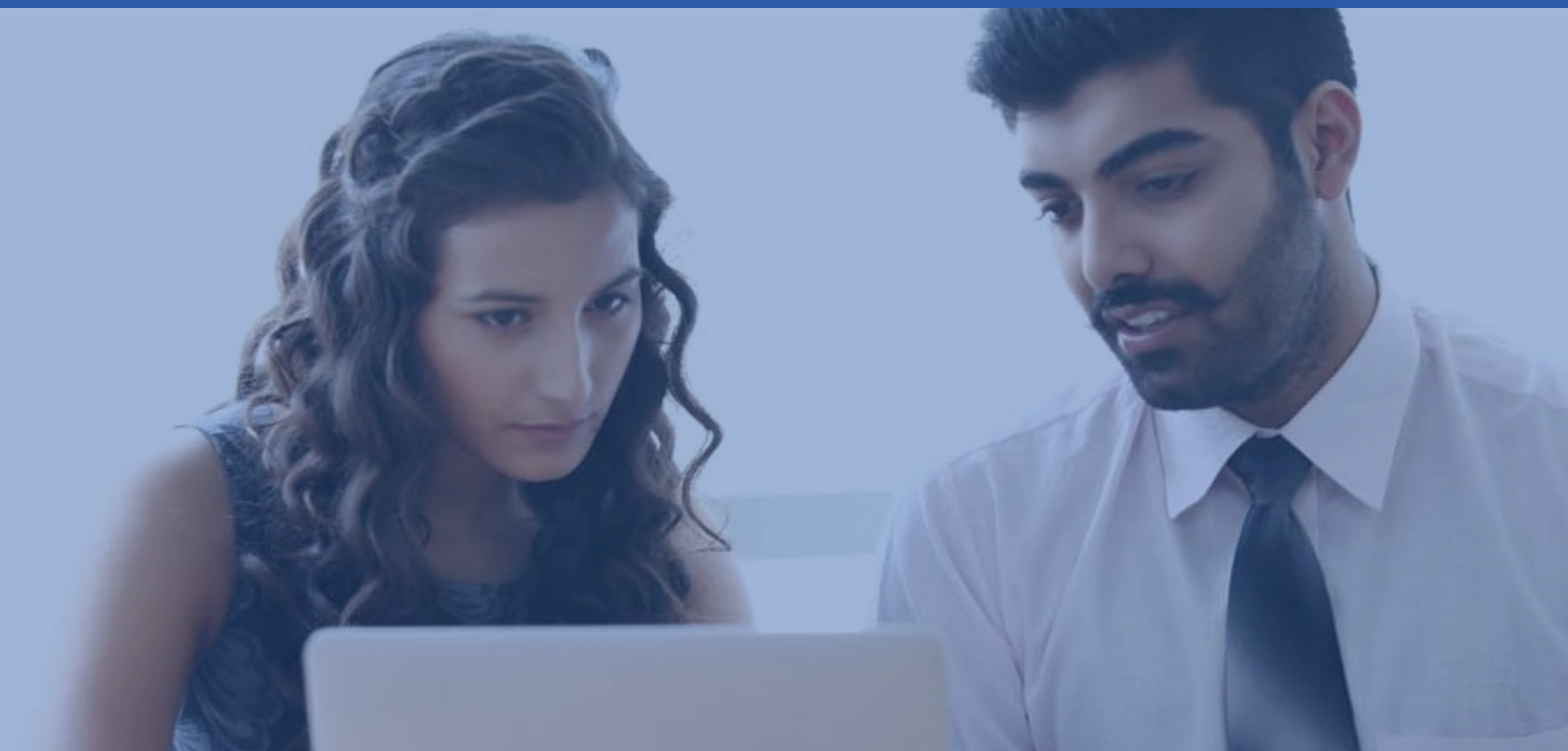
After 100% of the Course Completion





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