

# CNS-319-1I: Citrix NetScaler Advanced Topics – Management and Optimization



## Overview

This course is designed for students with previous NetScaler experience, and best suited for individuals who will be deploying NetScaler Management and Analytics System (MAS) to administer a Citrix NetScaler environment or optimize NetScaler-managed application delivery traffic.

Students will learn the skills required to deploy and utilize the NetScaler Management and Analytics System including the ability to manage multiple NetScaler platforms centrally, orchestrate configuration changes, report on transactions passing through the NetScaler environment, visualize infrastructure, and plan expansions.

Students will also learn the skills required to implement features including Caching, Frontend Optimization, NetScaler Web logging, and TCP/HTTP optimization to optimize traffic managed by a NetScaler environment. At the end of the course, students will be able to automate and manage network services for scale-out application architectures with the Citrix NetScaler Management and Analytics System and optimize NetScaler-managed application delivery traffic.

Recommended pre-requisite courses:

- [CNS-102 NetScaler Overview](#)  
AND
- [CNS-220 Citrix NetScaler Essentials and Traffic Management](#)  
OR
- [CNS-222 Citrix NetScaler Essentials and Unified Gateway](#)

## Key Skills

Upon successful completion of this course, students will be able to:

- Manage multiple NetScaler platforms centrally
- Orchestrate configuration changes
- Report on transactions passing through the NetScaler environment
- Visualize infrastructure and plan expansion

## Audience

Students interested in learning the skills required to deploy NetScaler Management and Analytics System (MAS) to administer a Citrix NetScaler environment or optimize NetScaler-managed application delivery traffic. Specifically:

- Administrators
- Implementers / Engineers
- Architects

## Instructional Method

This course is offered in instructor-led training (ILT)/virtual instructor-led training (vILT) formats with application of concepts through hands-on exercises in a live lab environment.

## Course Length

2 days

## Course Materials

As part of this course, students will receive the following materials:

- Access to a lab environment for the duration of the course
- Lab exercise guide
- Access to final course deliverables once the course is available in general availability including copies of all official materials presented by the instructor with additional notes and references as well as videos with experts throughout Citrix around course topics and lab exercises.

## Preparatory Recommendations

Citrix recommends students prepare for this course by taking the following courses:

- [CNS-102 NetScaler Overview](#)  
AND
- [CNS-220 Citrix NetScaler Essentials and Traffic Management](#)  
OR
- [CNS-222 Citrix NetScaler Essentials and Unified Gateway](#)

Citrix also recommends an understanding of the following concepts and technologies:

- Functionalities and capabilities of Citrix NetScaler
- Use of NetScaler traffic management features
- Basic Networking
- Windows and Linux Server administration
- Web Services
- Use of 3<sup>rd</sup> party Network Management tools

## Certification Preparation

- There are no associated exams/certifications currently available. Click [here](#) to learn more about Citrix Certifications.

## Topic Outline

Introduction

- NetScaler MAS Introduction and Configuration
- Using NetScaler MAS to Manage and Monitor NetScalers
- Using NetScaler MAS to Manage NetScaler configurations

MAS analytics

Optimization

- Caching
- Frontend Optimization
- TCP/HTTP optimization

NetScaler Web Logging