

# BMC AMI Ops Monitor for z/OS® 6.x: Fundamentals Troubleshooting Performance Problems (WBT)

[Learning Path >](#)

Course Code: AOMO-ZSTP-F604

Modality	Duration	Applicable Versions	Target Audience
Web-based Training (WBT)	3 Hours	BMC AMI Ops Monitor for z/OS 6.4	<ul style="list-style-type: none"><li>• Operators</li><li>• Administrators</li><li>• System Programmers</li></ul>

## Course Overview

The BMC AMI Ops Monitor for z/OS® product is part of the BMC AMI Ops Monitoring solution and a system-management application that allows you to monitor and manage the performance and availability of your entire z/OS® environment.

BMC AMI Ops Monitor for z/OS® proactively monitors all z/OS resources and metrics. It can monitor z/OS® resources more efficiently with a single point of view. You can monitor data from multiple systems and use a summary view to display multiple-system data in one line. Smart alarms provide an early warning of real problems and enable you to take action by issuing commands.

This course introduces you to the capabilities of BMC AMI Ops Monitor for z/OS® and explains the activities monitored. It also explains how to navigate through the different performance views, use the information to detect and analyze performance problems, and manage the performance of your entire system.

## Prerequisites

- BMC AMI Ops Monitor for z/OS® 6.x: Fundamentals Concepts (WBT)

## Recommended Trainings

- NA

## Learning Objectives

- Discuss the MVScope facility and list the monitor set information
- Understand the monitor set key points
- List the MVScope keywords
- Discuss the MVScope key views and the primary commands
- List the views for starting MVScope
- Discuss the activities monitored by BMC AMI OpsM for z/OS
- List the job performance views related to system resources, CPU, I/O devices, and storage
- Discuss workload performance and list the workload activity views
- Understand the workload definition facility and list the types of workloads
- Explain the process of defining workloads and setting service objectives
- List the workload performance views related to CPU, I/O devices, and paging
- List the CPU usage, device usage, and LPAR usage views
- Analyze the I/O configuration efficiency, storage usage, frame usage, and swapping
- Discuss Spin Lock and Suspend Lock Activity
- Discuss exception monitor and exception monitor samplers
- Displaying the exception monitor member list
- Discussing delay analysis
- Creating screen definition to detect performance problems
- Understanding loop check and max check solution
- List the CPU delay, device delay, storage delay, enqueue delay, SRM delay, and subsystem delay views
- Discussing the Data Spaces Views

# Course Modules

## Module 1: Introduction to MVScope

- Understanding MVScope
  - MVScope Facility
  - Monitor Set Information
  - Monitor Set Key Points
  - MVScope Keywords
  - MVScope Key Views
  - MVScope Primary Commands
- Views for Using MVScope
  - MSMONSET View
  - Hyperlinks on the MSMONSET View
  - Instructions Used by Tasks
  - Programs Used
  - I/O Samples
  - Traces of Resources
  - Monitor Set List View
  - Monitor Set Status
  - Commands to Modify Monitor Sets
  - Diagnostic Views
  - Monitor Set Status View
  - Monitor Set Profile View
  - CPU Sampling and I/O Tracing Results
  - MVScope Option on EZMDEV
  - MVScope Hyperlink on EZMDEVMS
  - MVScope Options on EZMJOB
  - Ways to Start Sampling
  - Using the Monitor Line Command
  - Record Types and Associated Views
  - MVScope in Historical Mode
  - Display Hidden Fields in MVScope Views
  - HIS Sampling

## Module 2: BMC AMI Ops Monitor for z/OS Features

- Accessing Job Information
  - Activities Monitored
  - Job Performance
  - JOBACT View
  - JOVER and Related Views
  - Easy Jobs Menu
  - Job Activity
  - Job Step Activity Views
  - Monitoring Performance Related to Jobs
- Analyzing Job Activity
  - JCPU View
  - JCPU and Related Views
  - Short Term Job CPU Summary
  - Summary Job Step CPU Utilization
  - Interval Job I/O Utilization
  - Long-term Job I/O Utilization
  - Real-time Job I/O Utilization
  - Interval Job Storage Usage
  - Interval Job Storage Delays
  - Long-term Storage Delays
  - Interval Memory Objects Usage
  - Interval Job Paging and Related View
  - Interval Job Swap Paging
  - Job Demand Paging Views
  - Interval Job SU Usage
  - Detailed Job Status
  - Looping Jobs

## Module 3: Monitoring Workload Performance

- Understanding Workloads and Service Objectives
  - Activities Monitored
  - Workload Performance Overview
  - Workload Activity Views
  - Workload Definition Facility
  - Advantages of Creating Workloads
  - Defining Workload and Service Objectives
  - Types of Workloads
  - Predefined Workloads
  - Selecting the Required Jobs
  - Creating Workload Definition
  - Characterizing Workloads
  - Initial Status for the Workload
  - Setting Service Objectives
  - Service Objectives for TSO and Batch Workloads
  - Service Objectives for Service Class
  - Service Objectives for Composite and WLM Workloads
  - Monitor Workload Performance
  - System Meeting the Service Objectives
  - WLM Monitoring Views
- Analyzing Workloads
  - System Performance Related to workloads
  - Interval Workload Activity
  - Realtime Workload Activity
  - Interval Workload CPU Usage
  - Workload I/O Usage
  - Workload Paging and Demand Paging
  - Job Step Resource Utilization
  - Job Resource Utilization
  - Workload Resource Usage
  - SRM SU Usage

## Module 4: Monitoring System Resource Utilization

- Understanding Resource Utilization
  - Data collectors
  - Activities Monitored
  - System Resource Utilization
  - Monitor Resource Utilization
  - Overutilized Processor Complex
  - Central Processing Unit Views
  - CPU Event Counters Views
  - LPAR Status Views
  - I/O Configuration Efficiency Views
  - Device Usage
  - I/O Activity by Data Set
  - Channel Paths and LCUs
- Analyzing Storage, Spin Lock, and Suspend Lock Activity
  - Efficient Storage Usage
  - Frame Usage and Swapping
  - SMS Storage Group
  - Paging Subsystem
  - LPAR Capacity
  - Spin Lock
  - Suspend Lock
  - Additional Views for Resource Utilization

## Module 5: Monitoring Exception Thresholds

- Understanding Exception Monitor
  - Activities Monitored
  - Functions to Monitor Exception Thresholds
  - Exception Monitor
  - Samplers and Control Statement Member
  - Example of Exception Monitor Resource Planning
  - Exception Monitor Member List
  - Starting the Exception Monitor
  - Automatically Starting the Exception Monitor
  - Manually Starting the Exception Monitor
  - Member List Panel Actions
- Navigating to Exception Messages Views
  - Status Information of Exception Monitor
  - Current Status of Exception Monitor
  - Currently Outstanding Exception Messages
  - WARNA

## Module 6: Solving Performance Problems

- Understanding Performance Problems
  - Ways to Detect Performance Problems
  - Creating a Screen Definition
  - Using Screen Definitions
  - Loop Check and Max Check Solution
  - Detection of Jobs
  - Loop Check Information Views
  - Loop Check Solution
  - Define CPU Loop Check Profile
  - Alarm Management Support for CPU Loop
  - Max Check Solution
  - Manage CPU Loop and Maximum Value Check Profiles
- Delay Analysis
  - Identifying Delays
  - Reasons for Delay
  - Job Delays
  - Hyperlinks From the JDELAY View
  - Interval Subsystem Delays Overview
  - Summarized Interval Job CPU Utilization
  - Job CPU Delays
  - Jobs Delayed by Enqueues
  - Enqueues Conditions
  - Job Step Delays
  - Data Set Usage Delays
  - Workload Delays
  - WLM Period Delays Realtime Summary
  - Storage Delays
  - Data Spaces Views

### Discount Options

**Have multiple students?** Contact us to discuss hosting a private class for your organization.

Contact us for additional information 