

NetApp - OnCommand Insight: Intelligent Operation

Code:	OCI-IO
Length:	2 days
URL:	View Online

OnCommand Insight: Intelligent Operation is a 2 day course that allows you to become familiar with some of the most important features of OnCommand Insight relevant to the day-to-day management, monitoring and trouble-shooting of data infrastructures. You will learn the features of OnCommand Insight that aid in daily administrative tasks, specifically related to common storage administration issues and the features useful to resolving those issues. You will also learn how to add new assets to an OnCommand Insight monitored infrastructure. This course will support OCI version 7.2 and targets those who are responsible for using OCI for Diagnostic Analytics around ensuring availability, troubleshooting the environment, resolving issues, meeting service levels and removing risk.

Skills Gained

- Create near-time visual representations of data infrastructure components
- Create Storage Area Network infrastructure policies and alerts
- Create data infrastructure performance policies and alerts
- Troubleshoot performance issues within a data infrastructure
- Associate compute components with applications for application infrastructure performance monitoring and troubleshooting
- Integrate new assets into an OnCommand Insight environment

Who Can Benefit

This course is intended as an introductory course for:

- Customers
- Infrastructure Engineer
- NetApp Partners
- Sales Engineers

Prerequisites

- OnCommand Insight Technical Overview (Recommend/not required)

Course Details

Outline: OnCommand Insight: Intelligent Operation (OCIIO)

Module 1: Visualizing your Data Infrastructure

- What is Insight
- How to use Insight
- Assets dashboard and UI toolbar
- Resources, dashboards and widgets
- Infrastructure navigation
- Resource pages
- Adding, removing and modifying timelines
- Custom dashboards
- Creating custom queries
- Adding filters
- Creating dashboards
- Widget library
- Custom dashboard
- Annotations
- Creation
- Applying
- Rules

Module 2: Data Path Management and Policies

- Insight Java UI primary pane
- Navigating the primary pane
- Grouping
- Search options
- Microview toolbar
- Data path policies configuration
- Menu
- Storage tab
- Policies
- Data path analysis tools
- SAN path violations page
- Microview panes
- Topology pane
- FC ports panes

Module 3: Performance Policy Creation, monitoring and troubleshooting

- Network performance monitoring
- Data flow
- Zero-buffer-credit state
- Performance policies

- Violations dashboard
- Policy dialog box
- Setup
- Port policy options
- Alert thresholds
- Policy pages
- Slow drain devices detection
- Finding violations of port performance
- Expert views: metrics
- Port and node metric comparisons
- Diagnosis of slow drain device

Module 4: Virtual Resource Management and Tools for Root Cause Analysis

- Virtual resource pages
- Queries
- Building a dashboard with VM data
- Global searches
- Application resource pages
- Performance and correlated resources
- Correlated resources investigations
- Greedy resource
- Tracing correlations
- VM comparison

Module 5: Application Infrastructure Monitoring and the Anomaly Detection Engine

- Application resources creations
- Data resources
- Insight applications
- Anomaly scores
- Finding anomalies
- Anomaly widgets
- Analytical tools
- Examining an anomaly

Module 6: Ethernet Monitoring and Troubleshooting

- Traditional OnCommand Insight view
- New Insight I/O workload contributors chart
- NFS workload monitoring
- Ethernet monitoring
- EMU restrictions
- Internal volume page

- NFSv3 contributors chart
- NFS client activity chart

Module 7: Integrating New Resources and Alert Setup

- Data sources and resources
- Vendor options
- Amazon S3 data sources
- Polling intervals
- Physical hosts
- Port hosts
- Host discovery and resolution
- Policy alerts and setup
- Assure events notification

Labs:

- Create a dashboard showing top 10 internal volumes for the last 24 hours
- Create an environment annotation list with the values of prod and dev, and bulk apply the annotations to objects using a query
- Create a query to filter virtual machines named 'SE', use the query to create an annotation rule
- Create an annotation rule based on a query to tag slow running development virtual machines with a note annotation with a value of 'SLOW'
- Create a dashboard to reflect various aspects of the environment
- Analyze a single point of failure
- Analyze a missing redundancy violation for a virtual machine
- Analyze a path outage between a host and storage
- Analyze a switch hop count violation
- Use the Java client to set violation thresholds
- Use the web UI to configure warning violation notification
- Analyze the performance of the BSM system application and show the degradation is due to a slow drain device
- Examine in more detail the performance of the BSM system application and determine associated storage port BB credit zero errors in the same fabric
- Analyze the performance of the exchange application and show the degradation is due to a resource contention
- Analyze a latency violation for Italian_Air_VM and determine root cause
- Create an application annotation and apply it to a virtual machine
- Analyze an anomaly for an application
- Create a query to identify all applications with an anomaly score >50
- Create a dashboard to display applications with high anomaly scores
- Demonstrate the function of the anomaly engine as it reduces anomaly scores based on learned performance behavior
- Analyze the ERP system application based on a high anomaly score
- Create a performance policy to monitor virtual machine swap rates

- Explore application performance
 - Explore virtual machine performance
 - Explore hypervisor host performance
 - Explore datastore performance
 - Explore internal volume performance
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