IBM Turbonomic: Container Platform Optimization

Duration: 3 Days **Course Code: TN930G** **Delivery Method: Virtual Learning**

Overview:

This advanced-level course teaches how IBM Turbonomic's patented analysis engine delivers visibility, control, and optimization across the entire application stack to assure the performance of running micro-services in Kubernetes and Red Hat OpenShift, as well as the efficiency of the underlying infrastructure.
This course explains how Turbonomic discovers container platform clusters and connects data from APM targets, such as, Instana, for full-stack visualization.
The course teaches how Turbonomic assures performance and maximizes efficiency throughout the stack by intelligently scaling the container cluster to provision and suspend nodes based on application resource demand.
Learners will understand how Turbonomic uniquely solves the problem of resource fragmentation and avoids performance bottlenecks by intelligently moving container pods to manage the fluctuating demand.
Turbonomic provides dynamic cluster scaling as well as horizontal scaling to meet SLO demands. This course includes common troubleshooting techniques for KubeTurbo, container platform planning, dashboards, and SaaS reporting.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Consultants, System Administrators, DevOps Engineers, Operators, Site Reliability Engineers

Objectives:

- After completing this course, you should be able to:
- Explain how Turbonomic helps in optimizing container environments for performance and cost efficiency
- Gain full stack visualization of the container platforms using Turbonomic
- Understand how Turbonomic discovers container platform environments through Kubeturbo
- Describe the types of actions Turbonomic generates for optimized vertical resizing, continuous proactive pod placement, SLO-based horizontal scaling, and dynamic cluster scaling
- Create policies to automate Turbonomic actions in container environments
- Run planning scenarios to optimize container clusters and migrate containerized workloads from one container platform cluster to another
- Explore the container dashboards in Turbonomic and SaaS reporting
- Evaluate horizontal scaling of pods to meet Service Level Objectives (SLO) for container clusters including support for Large Language Model (LLM) generative AI (gen AI)
- Set up advanced integrations with Prometurbo as well as Operator Resource Mapping (ORM)
- Learn common troubleshooting techniques for Kubeturbo deployments

Prerequisites:

Content:

Units:

- Unit 1: An overview of container platform optimization
- Unit 2: Discovering container platform environments using Turbonomic
- Unit 3: Full stack visualization
- Unit 4: Optimized vertical resizing
- Unit 5: Continuous pod placement
- Unit 6: Service Level Objective based horizontal scaling
- Unit 7: Dynamic cluster scaling
- Unit 8: Container platform planning
- Unit 9: Container dashboards and SaaS Reporting
- Unit 10: Common troubleshooting techniques

Additional Information:

Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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