

# PingGateway

## COURSE CONTENT

### GET IN TOUCH



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## **About Multisoft**

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## **About Course**

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PingGateway Training equips professionals with the knowledge required to deploy and manage Ping Identity's API gateway for protecting enterprise applications and digital services. The course focuses on gateway administration, secure API access, authentication, authorization, identity integration, and policy enforcement. Through implementation-based learning, participants will understand how PingGateway strengthens application security while supporting modern Identity and Access Management strategies.

## Module 1: Introduction to PingGateway

- ✓ PingGateway Overview
- ✓ Gateway Architecture
- ✓ Core Components
- ✓ Deployment Models
- ✓ Request Processing Lifecycle
- ✓ Enterprise Use Cases
- ✓ Administrative Interface

## Module 2: Installation and Initial Configuration

- ✓ Installation Prerequisites
- ✓ Environment Setup
- ✓ Configuration Files
- ✓ Runtime Configuration
- ✓ Server Startup and Shutdown
- ✓ Configuration Validation
- ✓ Troubleshooting Installation

## Module 3: Reverse Proxy and Request Routing

- ✓ Reverse Proxy Fundamentals
- ✓ Route Configuration
- ✓ Request Matching
- ✓ URL Mapping
- ✓ Header Manipulation

- ✓ Request Forwarding
- ✓ Response Processing

## Module 4: Authentication and Identity Integration

- ✓ Authentication Mechanisms
- ✓ Identity Provider Integration
- ✓ PingAM Integration
- ✓ Single Sign-On (SSO)
- ✓ Session Validation
- ✓ Authentication Filters
- ✓ Identity Propagation

## Module 5: OAuth 2.0 and OpenID Connect

- ✓ OAuth 2.0 Fundamentals
- ✓ Authorization Code Flow
- ✓ Client Credentials Flow
- ✓ OpenID Connect Integration
- ✓ Token Validation
- ✓ JWT Processing
- ✓ Secure API Authentication

## Module 6: Authorization and Policy Enforcement

- ✓ Authorization Policies
- ✓ Access Decision Rules

- ✓ Policy Evaluation
- ✓ Scope-Based Authorization
- ✓ Role-Based Access Control
- ✓ Resource Protection
- ✓ Access Management Best Practices

## Module 7: API Security and Traffic Protection

- ✓ API Gateway Security
- ✓ Request Filtering
- ✓ Rate Limiting
- ✓ Threat Protection
- ✓ IP Restrictions
- ✓ CORS Configuration
- ✓ Secure Communication

## Module 8: Filters and Gateway Customization

- ✓ Built-in Filters
- ✓ Custom Filter Chains
- ✓ Scriptable Filters
- ✓ Header Filters
- ✓ Token Transformation
- ✓ Request and Response Processing
- ✓ Gateway Customization

## Module 9: Logging, Monitoring and Auditing

- ✓ Logging Configuration
- ✓ Audit Trails
- ✓ Performance Monitoring
- ✓ Health Checks
- ✓ Gateway Metrics
- ✓ Troubleshooting Logs
- ✓ Operational Visibility

## Module 10: Performance Optimization

- ✓ Connection Management
- ✓ Load Distribution
- ✓ Caching Strategies
- ✓ Throughput Optimization
- ✓ Resource Utilization
- ✓ High Availability Concepts
- ✓ Performance Best Practices

## Module 11: Enterprise Deployment

- ✓ Production Deployment Strategy
- ✓ SSL/TLS Configuration
- ✓ Certificate Management
- ✓ Secure Configuration
- ✓ Integration with Enterprise Infrastructure

- ✓ Upgrade Planning
- ✓ Deployment Best Practices

## Module 12: Enterprise Implementation Project

- ✓ Gateway Deployment
- ✓ API Protection Implementation
- ✓ OAuth Integration
- ✓ Identity Provider Integration
- ✓ Security Policy Configuration
- ✓ Performance Validation
- ✓ Production Readiness Assessment
- ✓ Capstone Project