SUMMIT TRAINING OFFERING

HORTONWORKS DATA PLATFORM (HDP®) ADMINISTRATION & SECURITY

This accelerated 2 day training course is designed for system administrators and operators who need to manage secure HDP clusters. They will learn how to implement Kerberos, Apache Ranger, Apache Ambari, Apache Knox, SPNEGO, and other security concepts and tools to secure HDP clusters.

PREREQUISITES

Students must be familiar with distributed systems, basic networking, basic Linux commands. Prior Hadoop knowledge is helpful.

TARGET AUDIENCE

Systems administrators, operators, and security engineers that need to understand how to implement HDP security.

AGENDA SUMMARY

Day 1: Security Foundation
Day 2: Advanced Security

HDP Security: Days 1 & 2

- Explain the principles of security in HDP
- Understand and exploit default HDP security issues
- Identify key HDP security platforms for administration, authentication, authorization, audit, and data protection
- Understand HDP security prerequisites
- Use Kerberos as part of HDP authentication
- Describe how Ambari and HDP cluster nodes integrate with user/group management systems
- Detail Kerberos strong authentication and architecture
- Compare options for KDC master and slave implementations
- Configure Ambari and HDP for Kerberos
- Establish a trust between Active Directory and KDC
- Secure Ambari Server instances
- Encrypt Ambari database and passwords

- Configure Ambari for LDAP or Active Directory authentication
- Set up HTTPS/SSL
- Enable SPNEGO authentication for HDP
- Implement Ranger and Ranger KMS
- Configure HDFS encryption and encryption zones
- Describe Ranger plug-in integration
- Implement Knox
- Secure Ambari Views

Hands-On Labs

- Explore and exploit the HDP cluster
- Integrate Active Directory
- Kerberize the cluster
- Secure Ambari
- Install Ranger
- Install and exercise Ranger KMS
- Utilizing Ranger plug-ins
- Install and validate Knox

About Hortonworks

Hortonworks is a leading innovator at creating, distributing and supporting enterprise-ready open data platforms. Our mission is to manage the world's data. We have a single-minded focus on driving innovation in open source communities such as Apache Hadoop, NiFi, and Spark. Our open Connected Data Platforms power Modern Data Applications that deliver actionable intelligence from all data: data in-motion and data-at-rest. Along with our 1600+ partners, we provide the expertise, training and services that allows our customers to unlock the transformational value of data across any line of business. We are Powering the Future of Data™.

Contact

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