



Big Data Security Assessment

Highlights

- Leverage industry leading capabilities of McAfee/Foundstone's security experts and Intel's Hadoop experts
- Learn how you need to secure your Big Data environment to avoid catastrophic pitfalls
- Gain an understanding of how different privacy regulations affect your Big Data program
- Have a deep technical penetration test performed to find security holes BEFORE the bad guys do
- Reduce organization, operational, financial, and personal risk; and sleep better at night
- Be prepared to answer questions your security, privacy, and business leaders will ask about how your Big Data environment is secured

Deliverables

- Workshop report out
- Recommendations and plan
- Big Data Security Assessment Report

Is your Big Data environment secure?

In a couple of words...almost certainly not...

Enterprise adoption of Big Data technology (i.e., Hadoop) is growing exponentially; these complex environments process and store the most sensitive information in ever expanding "data lakes" that will house vast amounts of data.

Put succinctly: Hadoop systems are insecure, customers are deploying them quickly with without proper controls, and the result could be organizational and career disaster.

Whether you are in production or POC, you face increased risk. We can help you reduce that risk.

Leveraging the combined power of McAfee/Foundstone's world-class penetration testers and Intel's Hadoop experts, we will help you understand your current exposure, develop a realistic risk reduction plan and help you prevent data exposure.

Value Provided

Intel's Big Data Security Assessment evaluates each of your Big Data environment's components from the overall architecture down to the configuration of every node in every cluster.

The assessment includes our experts looking at the following areas:

- Authentication scheme – How are you restricting access? is Kerberos the user privileges configure properly
- Authorization levels – Who can access the data? Is that appropriate?
- Role based access levels – Are you allowing precise levels of access to data based?
- Encryption standards – How are you encrypting data at rest, in transit, and in process?
- Location transparency –Are your clusters running in a secure cloud location?
- Data Element and Privacy Controls – What data elements do you need to protect, in what geographies and under what regulations?

You'll know in short order if you have a problem and how to fix it.

Key Activities

Our experts will work closely with you to identify system weaknesses and develop a plan to help you create a more secure Big Data environment. Typically, we perform the following activities:

Activity	Deliverables
Target identification and scanning	<ul style="list-style-type: none"> • Foot printing • Analyze existing security model • Vulnerability scanning • Manual Vulnerability Verification • Manual Penetration Testing • In depth testing will identify common vulnerabilities and configuration issues
Authentication, Authorization Review	<ul style="list-style-type: none"> • Review Authentication scheme • Review Authorization policies • Review User and Session management • Review Data protection – Data at rest, Data in motion • Review Error handling and exception management • Review Management, Client and Cluster authentication • Identify configuration and privilege issues with your install
Deployment Architecture & Cluster Configuration Overview	<ul style="list-style-type: none"> • Understand Data flow and control • Review Hadoop Configuration & Patch Management process • Review Monitoring, Auditing, Logging, DR, and Backup processes • Identify the architectural issues with your Big Data implementation
Big Data Security Planning Workshop	<ul style="list-style-type: none"> • Gain and understanding of your program and global operations • Share our expertise on privacy and data element risk • Uncover operational Big Data risks • Help you plan go-forward activities

Who We Are

Engaging our experts will accelerate the success of your Big Data security program. We bring:

- A global team of certified professionals
- Deep Big Data and Security domain experience
- Decades of strategy, operations, and deployment expertise
- Best practice methodologies and deployment tools that drive quick deliverables

How We Help

Our team will help you:

- Reduce risk: Rely on a Fortune 100 company to deliver dependable results
- Accelerate time to value: Use our expertise to speed up your Big Data deployment
- Maintain control: Trust our advisors to guide you to self-sufficiency

How to Engage

Contact your Account Manager to learn about Intel and McAfee's Professional Services offerings.

Phone: 1-855-229-5580

E-mail: hadoop-services@intel.com

Web: <http://hadoop.intel.com>