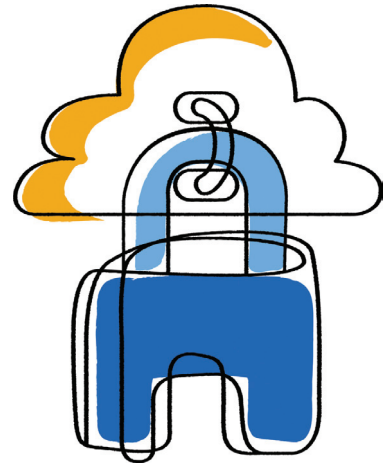




NetApp®



## Solution Brief

# Cybersecurity Overview

Protecting the confidentiality, integrity, and availability of your data

### KEY BENEFITS

#### Confidentiality

- AES 128-/256-bit encryption for data at rest or in flight
- Centralized key management
- Secure multi-tenancy

#### Integrity

- IAVA compliance
- Integrated antivirus technology
- Storage-based IDS
- Cyber collection (packet capture and log aggregation)
- Cyber analytics

#### Availability

- Rapid cyber provisioning
- Disaster recovery
- Continuity of operations
- Clustering
- Automated storage tiering
- Data retention and compliance

### Introduction

Businesses today rely on the exchange of data in order to be successful. However, organizations constantly balance the need to allow access to their data and the need to protect that data from attackers. NetApp takes a comprehensive approach to cyber security by providing technologies and solutions that enable your data to be protected and trusted while still remaining accessible.

Our cyber-security technologies help FORTUNE 500 companies and government agencies protect their data, know how their data is being used, and minimize the risk that data will be lost in the event of an attack.

NetApp approaches cyber security in three areas:

- Confidentiality
- Integrity
- Availability

### Confidentiality

NetApp provides several ways to protect the confidentiality of your data through technologies including encryption and secure multi-tenancy. Our encryption solutions help protect data both at rest and in flight with AES 256-bit encryption and simple, centralized key management.

Additionally, our turnkey, secure multi-tenancy solution enables businesses to logically host multiple heterogeneous functions within a single architecture of storage, network, and compute.

### Integrity

Although it is important to protect your data, it is equally important to know that you can trust your data.

NetApp provides several solutions that can help businesses manage the integrity of their data, such as storage-based intrusion detection system (IDS) technology, rapid IAVA compliance, and cyber collection and analytics. Our storage-based IDS technology can alert businesses of any file-based event, providing granular awareness of how

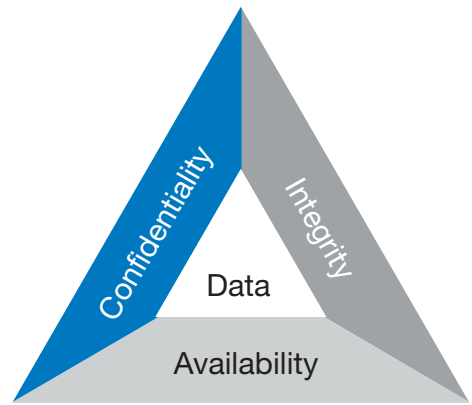


Figure 1) Data security model

data is being used. Our systems also have integrated antivirus technology to keep your data virus free.

Additionally, the features of our Data ONTAP® operating system can simplify the process of IAVA compliance by allowing administrators to patch a single “gold disk” image instead of patching thousands of machines. This simplifies your management and ultimately reduces your window of vulnerability.

Lastly, our strong partnerships with cyber-security companies provide businesses with the ability to conduct cyber collection such as full packet capture or log aggregation. The collected cyber data can then be analyzed to provide real-time situational awareness and long-term visibility into how the data is being used.

### Availability

Protecting your data and knowing it is trusted are essential; however, it is equally important to make sure your data is accessible when needed.

Whether you’re recovering from a natural disaster or a cyber attack, NetApp provides several solutions that can help you recover quickly, such as rapid cyber provisioning and disaster recovery.

Our Data ONTAP operating system has several integrated features, including Snapshot™ copies and cloning, that allow companies to create dynamic, flexible environments so they can rapidly provision resources to respond to threats or instantly recover from a logical failure.

Additionally, our clustering and compliance technologies allow organizations to create environments that are Intelligent, Infinite, and Immortal so your data is available when you need it.

Furthermore, our disaster recovery solutions, such as mirroring and clustering, enable your data to be accessible the moment you need it.

### Summary

NetApp’s approach to cyber security is comprehensive. Our encryption and

secure multi-tenancy solutions help businesses protect data from threats.

Additionally, the features of Data ONTAP help businesses know that their data is trusted by simplifying IAVA compliance, and our partnerships enable cyber collection and real-time situational awareness. Lastly, our integrated data protection features enable data to be accessible when needed.

### About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at [www.netapp.com](http://www.netapp.com).

Go further, faster®

## NETAPP CERTIFICATIONS

### Product

Data ONTAP  
 NetApp Storage Encryption  
 FlexPod®  
 FlexPod

### Certification

EAL 2+  
 FIPS 140-2 Level 2  
 FISMA Moderate  
 DIACAP

