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October 2014

Product Implementation Training (PIT)

IBM FileNet Content Platform Engine 5.2.1

EMC Isilon Storage Support



Introduction

- Course Overview
 - Introduce Isilon OneFS storage support in Content Platform Engine
 - Describe retention support with Isilon SmartLock
 - List steps to configure Isilon SmartLock device
 - Demonstrate how to configure Fixed Content Storage with Isilon
- Target Audience
 - Those who will be installing, administering and supporting Isilon Fixed Content Storage in Content Platform Engine
 - Those who will be administering Isilon OneFS storage and SmartLock for Content Platform Engine
- Suggested Prerequisites
 - Familiarity with IBM FileNet Content Platform Engine Storage
 - Familiarity with EMC Isilon OneFS and SmartLock
- Version Release Date: October 2014

Course Objectives

After this course you will be able to:

- *Describe Isilon storage support in Content Platform Engine*
- *Configure Isilon device for Content Platform Engine from begin to end*
- *Configure Isilon Fixed Content Device and Fixed Content Storage*
- *Describe Isilon configuration guidelines and best practices*

Course Roadmap

➔ Product Fundamentals

Isilon Overview

Isilon Support on Content Platform Engine

Configuration Step-by-Step

Isilon Fixed Content Device

- Product Demonstration

Configure Isilon device for Content Platform Engine

Create Isilon Fixed Content Device

Create Isilon Fixed Content Storage

- Best Practices

- Course Summary

Product Fundamentals: Isilon Overview

- *Operating system: OneFS*
- *Write Once Read Many (WORM) data protection: SmartLock*
- *Administration interface:*
 - *Web user interface*
 - *Command-line interface (CLI)*

The image displays two components of the Isilon OneFS administration interface. On the left is the web user interface (GUI) for OneFS Storage Administration. It features the OneFS logo and contact information for web, support, and sales. A login section titled 'Log in to OneFS' includes a 'Cluster Name' field set to 'cm-isilon' and a 'Username' field. On the right is a terminal window titled 'cm-isilon01.usca.ibm.com - PuTTY' showing a successful login as 'root' using keyboard-interactive authentication. The terminal output includes copyright notices for EMC Corporation and The Regents of the University of California, followed by the version 'Isilon OneFS v7.1.0.3' and a prompt 'cm-isilon-1#'.

OneFS | STORAGE ADMINISTRATION

Web: www.isilon.com
Support: 800.782.4362 | Worldwide: +1.508.497.7901
<http://support.emc.com>
Sales: **Isilon Sales**
877.2.ISILON | 206.315.7602
info@isilon.com

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EMC²

Log in to OneFS

Cluster Name: cm-isilon

Username:

```
cm-isilon01.usca.ibm.com - PuTTY
login as: root
Using keyboard-interactive authentication.
Password:
Last login: Thu Aug 28 15:33:06 2014 from klamer.uswa.ibm
Copyright (c) 2001-2012 EMC Corporation. All Rights Reserved.
Copyright (c) 1992-2011 The FreeBSD Project.
Copyright (c) 1979, 1980, 1983, 1986, 1988, 1989, 1991, 1992, 1993, 1994
The Regents of the University of California. All rights reserved.

Isilon OneFS v7.1.0.3
cm-isilon-1#
```

Product Fundamentals: Isilon Support on Content Platform Engine

- *Support OneFS version: 7.1.0 and 7.1.1*
- *Require SmartLock directory for data with retention support*
 - *Support SmartLock Enterprise mode*
 - *Planned Post-qualification for SmartLock Compliance mode*
- *Support both FileNet content storage modes: aligned or unaligned*
 - *Aligned: object retention is synchronized with Content Platform Engine and enforced by Isilon Fixed Content Device*
 - *Unaligned: object retention is enforced by Content Platform Engine*
- *Retention settings*
 - *Not set: not committed to WORM state*
 - *Permanent: set to a distant future date (9999-12-20T23:59:59Z)*
 - *Specific date value*
- *Altering retention date*
 - *New retention date must be later than existing retention date*

Product Fundamentals: Configuration Step-by-Step

On Isilon System ...

- *Create an Isilon user account*
 - *OneFS 7.1.0: requires root user for retention date update and inquiry*
- *Create a SmartLock directory and grant user permission to this directory*
 - *Available only through the command-line interface (CLI)*
- *Create RAN access point using the RESTful PUT method*
 - *Use root user to create an access point on the namespace*
- *Set access control for the access point using the RESTful PUT method*
 - *Use root user to create an access control list (ACL) for other users*
- *(Optional) Create a resource path after the access point*

On Content Platform Engine ...

- *Create an Isilon Fixed Content Device*
- *Create an Isilon Fixed Storage Area*

Product Fundamentals: Isilon Fixed Content Device

- *Interface: Isilon RESTful Access to the Namespace (RAN) API*
- *Connection URL:*
https://<cluster>:<port>/namespace/<access_point>/<resource_path>
 - *<cluster>: IP address / hostname of the Isilon cluster*
 - *<port>: port number (default 8080)*
 - *<access_point>: name of the access point*
 - *<resource_path>: file path to the directory you want to access**e.g. https://cm-isilon:8080/namespace/dev/demo*
- *Username and password*
- *Directory structure size*
 - *Small: 2 levels, 23 nodes, total 529 directories at the 2nd level*
 - *Large: 3 levels, 23 nodes, total 12,167 directories at the 3rd level*
- *Support secured communication using Secure Sockets Layer (SSL)*

Product Fundamentals: Isilon Fixed Content Device (continue)

U cemp.enterp... Test Isilon... x

Save Refresh Actions Close

Fixed Content Device: Test Isilon FCD 01

General Properties **Configuration**

*Device connection URL: ?

*Device user name: ?

*Device password: ?

*Confirm password:

*Directory structure: ?

Maximum connections: ?

Validate the SSL server certificate and host: ☒ Enabled ?

Course Roadmap

- Product Fundamentals
 - Isilon Overview
 - Isilon Support on Content Platform Engine
 - Configuration Step-by-Step
 - Isilon Fixed Content Device
- ➔ Product Demonstration
 - Configure Isilon device for Content Platform Engine
 - Create Isilon Fixed Content Device
 - Create Isilon Fixed Content Storage
- Best Practices
- Course Summary

Product Demonstration

- *Configure Isilon device for Content Platform Engine*
 - *User account*
 - *SmartLock directory*
 - *RAN access point*
- *Create an Isilon Fixed Content Device*
 - *Connection URL*
https://<cluster>:<port>/namespace/<access_point>/<resource_path>
 - *Username / Password*
 - *Directory Structure*
 - *SSL validation enable/disable*
- *Create an Isilon Fixed Content Storage*
 - *Aligned / Unaligned device retention mode*
 - *Document retention behavior*

Product Demonstration

Demonstration

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Best Practices

- *Both unaligned and aligned storage modes require SmartLock directory*
- *Do not configure SmartLock directory with these retention settings – let Content Platform Engine manage data retention:*
 - *Minimum retention setting*
 - *Maximum retention setting*
 - *Default retention setting*
- *Do not configure SmartLock directory with autocommit time period setting – let Content Platform Engine handle retention commitment*
- *SmartLock directory with privileged delete setting enabled for root user*
 - *Caution! Isilon root user may delete data from the SmartLock directory that are still used by Content Platform Engine*
- *Do not override the retention date*
 - *Caution! Data with overridden retention may prevent Content Platform Engine from removing data that was previously overwritten with the new WORM setting*

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Course Summary

You have completed this course and can:

- *Describe Isilon storage support in Content Platform Engine*
- *Configure Isilon device for Content Platform Engine from begin to end*
- *Configure Isilon Fixed Content Device and Fixed Content Storage*
- *Describe Isilon configuration guidelines and best practices*

Contacts

- Product Marketing Manager:
 - Robert Finn
- Product Manager:
 - Stephen Hussy
- Subject Matter Experts (SME) / Area of Expertise:
 - Grace Smith (Development Manager)
 - Jenny Lam (Software Developer)
- Support:
 - Eric Fonkalsrud Jr (L3 Manager)

Product Help/Documentation/Resources

- IBM FileNet P8 Platform V5.2.1 Publication Library
<http://www.ibm.com/support/docview.wss?uid=swg2042122>
 - Release Notes, Hardware and Software requirements, and Compatibility Matrices, etc.
- IBM FileNet P8 Platform V5.2.1 Knowledge Center
http://www.ibm.com/support/knowledgecenter/SSNW2F_5.2.1
- IBM Knowledge Center: Isilon SmartLock fixed content device
 - Administering > Administering Content Platform Engine > Defining the repository infrastructure > Storing content > Storage area types > Fixed storage areas > Fixed content devices > Isilon SmartLock fixed content device
- IBM Knowledge Center: Obtain and Deploy SSL Certificate
 - Administering > Administering Content Platform Engine > Defining the repository infrastructure > Content Platform Engine server communication > Configuring SSL for server communication > Configuring Content Platform Engine as an SSL client

Product Help/Documentation/Resources (Continue)

- EMC Isilon OneFS 7.1.0
 - CLI Administration Guide - <https://support.emc.com/docu50219>
 - Web Administration Guide - <https://support.emc.com/docu50220>
 - RESTful Access to the Namespace API - <https://support.emc.com/docu50222>
- EMC Isilon OneFS 7.1.1
 - CLI Administration Guide - <https://support.emc.com/docu54199>
 - Web Administration Guide - <https://support.emc.com/docu54201>
 - OneFS API Reference - <https://support.emc.com/docu54263>