New Documentation Portal
Peggy Sanchez
Definitions

- CCMS – Component Content Management System
- DITA – Darwin Information Typing Architecture
- Topic Based Writing – stand alone content
- Single Source – write once and reuse
- The users- developers, admins, programmers, people interested in technical documentation for Cray machines
- CrayPort ≠ CrayDocs
Where We Started

- Joined team in 2013
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- 16 members
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- 5 authoring tools
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- Homegrown customization
Where We Started

- Joined team in 2013
- 16 members
- 5 authoring tools
- Homegrown customization
- Researched building their own CCMS
Problems to Solve

- Outdated Portal
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- Delivering outdated format --pdfs-- these are just books online
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- Publishing cycle was a complicated process
Problems to Solve

- Outdated Portal
- Delivering outdated format --pdfs-- these are just books online
- Non-intuitive expectations
- Publishing cycle was a complicated process
- Publishing failures often required more than one person to fix
# 1 Problem to Solve

Users were not satisfied
Team Preparations

- Rebuild Our Infrastructure
Team Preparations

- Rebuild Our Infrastructure
- Extensive training
Departmental Changes

- Hired additional writers
- Extensive training
- Changed writing style
  - Descriptive headings
  - Titles of documents are specific
  - Documents have been reorganized
  - Content where needed
  - Metadata for searching and organization
  - Increased reuse
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Tab Manager

SUBJECTS / SEARCH

Subjects

Search

By Subject

Software

- C++
- Cray Linux Environment (CLE)
- Datawarp
- Data Management Practices (DMP)
- Fortran
- Lustre

SUBJECT PUBLICATIONS

Showing results 1 to 20 of 72

DataWarp Installation and Configuration Guide S-2547-5203
LinkaB-XA Appliance Installation
Sonexion 900 Replacement Procedures 1.4
Cray XC Native Slurm Installation Guide
Sonexion 900 Replacement Procedures 1.5
Expanse 2000 AQLI Addendum

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A Welcome Page

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Aries Hardware Counters

Aries™ Network Tech Note - Application Changes to Avoid Network Congestion S-0048-B

C and C++ Reference Manual (S-2179-84)

CLE Installation and Configuration Guide S-2444-5204

CLE Release Overview Supplement (S-2497-5204)

CLE User Application Placement Guid S-2496-5204

CLE XC System Administration Guide S-2393-5203-XX

CLE XC™ System Administration Guide S-2393-5204xx

CLE XC™ System Network Resiliency Guide S-0041-E

CLE XE™ and XX™ System Administration Guide S-2393-5204xx

Configure Cray SEC Software (S-2542-7204)

Configure Cray SEC Software (S-2542-7204)

Cray Chilled Door Operator Guide

Cray Compiling Environment Release Overview and Installation Guide (S-5212-84)

Cray XC Native Slurm Installation Guide

CS-Storm Hardware Guide

CS-Storm Hardware Repair Procedures

CS-Storm Rack Conversion Kits

CS-400/ISC User Guide

CS-400 AC Hardware Guide

CS-400 LC Hardware Guide

Subject Publications

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Hardware and software products and provides tighter integration with our global customer service team.
Side by Side Comparison to Choose Content
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User name

Full name

Email

Passwords must be more than eight characters and include upper and lower case letters, at least one digit, at least one non-alphanumeric character and must not be the same as your user name.

Password

Confirm password

Solve the following equation: 4 + 3

Answer:

Cancel   OK
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Sign in for additional features
Add to Collection
Add to Collection
Add to Collection
Curate Your Own Content
Curate Your Own Content
Sneak Peak Pubs Portal 2.0
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- CS400
- CS400-AC
- CS400-LC
- CS-Storm

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- Sonexion
- Tiered Adaptive Storage (TAS)

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ANALYTICS
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- Unika-GD
- Unika-GX
- Unika-XA

Click here to see all Cray Analytics products.
Cray XC Series Supercomputers

The Cray XC series delivers on Cray's commitment to an adaptive supercomputing architecture that provides both extreme scalability and sustained performance.
ABOUT THE DATAWARP ADMINISTRATION GUIDE

Scope, audience, release information
This publication covers administrative tasks for Cray XC™ series systems installed with DataWarp SSD cards. It is intended for system administrators.

Release Information
This is the initial release of this publication, it supports DataWarp with the DataWarp Service on Cray XC™ series systems running Cray software release CLES2_UP04. It does not support Static DataWarp. See Important Information about this DataWarp Release.

Typographic Conventions

Monospace
Indicates program code, reserved words, library functions, command-line prompts, screen output, file/path names, key strokes (e.g., Enter and Alt-<Ctrl>-f), and other software constructs.

Monospaced Bold
Indicates commands that must be entered on a command line or in response to an interactive prompt.

Oblique or Italic
Indicates user-supplied values in commands or syntax definitions.

Proportional Bold
Indicates a graphical user interface window or element.

\ (backslash)
At the end of a command line, indicates the Linux® shell line continuation character (lines joined by a backslash are parsed as a single line). Do not type anything after the backslash or the continuation feature will not work correctly.

Feedback
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DWCLI(8)

Reference page for dwcli

NAME
dwcli - Command line interface for DataWarp

SYNOPSIS
dwcli [command_option] [ACTION RESOURCE] [resource_attributes]

DESCRIPTION
The dwcli command provides a command line interface to act upon DataWarp resources. This is primarily an administration command, although a user can initiate some actions using it. With full WLM support, a user does not have a need for this command.

Important:
The dws module must be loaded to use this command.

$ module load dws

COMMON OPTIONS
dwcli accepts the following common options:

- debug
  Enable debug mode
- h | --help
  Display usage information for the command, actions, and resources:
  • dwcli -h
  • dwcliaction -h
  • dwcliaction resource -h
- j | --json
  Format debug output as json, if applicable (case valid with
  "-h" option)

  ...
UPDATE DWS CONFIGURATION FILES

The files an admin can modify

There are three DataWarp Service (DWS) configuration files:

1. The scheduler configuration file: /etc/opt/cray/dws/dwssd.yaml
2. The manager daemon configuration file: /etc/opt/cray/dws/dwmd.yaml
3. The API gateway configuration file: /etc/opt/cray/dws/dwrest.yaml

Use xtopview to modify any of these files from within the shared root. For the changes to take effect, exit xtopview and either restart or send SIGHUP to the corresponding daemon(s).

The DataWarp Service Daemon (dwsd)
The dwsd, which runs on the sdb node, reads /etc/opt/cray/dws/dwssd.yaml at startup and when it receives the SIGHUP signal. For example, if a change is made to dwssd.yaml:

```
boot: # ssh sdb
sdb: # kill -HUP $

sdb: # tail -1 /var/opt/cray/dws/log/dwmd.log
2015-09-17 14:15:26 Event on sdb-4
2015-09-17 14:15:26 Caught signal Hangup
2015-09-17 14:15:26 vwvvvvvv Configuration Delta Summary vvvvvv
2015-09-17 14:15:26 log mask: 0x7 -> 0x587
2015-09-17 14:15:26 ^^^^^^^^^^^^^ End Configuration Delta Summary ^^^^
```

The DataWarp Manager Daemon (dumd)
The dumd, which runs on each SSD-endowed node, reads /etc/opt/cray/dws/dwmd.yaml at startup and when it receives the SIGHUP signal. For example, if a change is made to dwmd.yaml:

```
boot: # ssh n00777
n00777: # kill -HUP $

n00777: # tail -1 /var/opt/cray/dws/log/dwmd.log
2015-09-17 14:21:54 (31678) Caught signal Hangup
2015-09-17 14:21:54 (31678) Configuration Delta Summary vvvvvv
2015-09-17 14:21:54 (31678) log mask: 0x7 -> 0x587
2015-09-17 14:21:54 (31678) ^^^^^^^^^^^^^ End Configuration Delta Summary ^^^^
```
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The DataWarp Service Daemon (dwss)
The dwss, which runs on the ssdb node, reads /etc/opt/cray/dws/dwss.yaml at startup and when it receives the SIGHUP signal. For example, if a change is made to dwss.yaml:

```
2015-09-17 14:15:26 ************* Event on fd 4
2015-09-17 14:15:26 (Caught signal) Hangup
2015-09-17 14:15:26 Configuration Delta Summary
2015-09-17 14:15:26 log_mask: 0x77 -> 0x57
2015-09-17 14:15:26 ************* End Configuration Delta Summary
```

The DataWarp Manager Daemon (dwmd)
The dwmd, which runs on each SSD-endowed node, reads /etc/opt/cray/dws/dwmd.yaml at startup and when it receives the SIGHUP signal. For example, if a change is made to dwmd.yaml:

```
2015-09-17 14:21:54 Configuration Delta Summary
2015-09-17 14:21:54 log_mask: 0xffff -> 0x77
2015-09-17 14:21:54 Configuration Delta Summary
```

On systems with many SSDs, it may be necessary to send SIGHUP to dwmd daemons on many nodes. The following command generates a file that contains identifiers that can be used with pcmd to perform the SIGHUP in parallel.

```
ssh nik00777 /usr/bin/pcmd -e 'cat /proc/pcmd/pcmdstat' > /tmp/dwmd_list
```
UPDATE DWS CONFIGURATION FILES

The files an admin can modify

There are three DataWarp Service (DWS) configuration files:

1. The scheduler configuration file:
   /etc/opt/cray/dws/dwsd.yaml
2. The manager daemon configuration file:
   /etc/opt/cray/dws/dwmtd.yaml
3. The API gateway configuration file:
   /etc/opt/cray/dws/dwrsgateway.yaml

Use xtopview to modify any of these files from within the shared root. The changes to take effect, exit xtopview and either restart or send SIGHUP to the corresponding daemon(s).

The DataWarp Service Daemon (dwsd)
UPDATE DWS CONFIGURATION FILES

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2. The manager daemon configuration file: /etc/opt/cray/dws/dwmd.yaml
3. The API gateway configuration file: /etc/opt/cray/dws/dwsagt.yaml

Use `xstopview` to modify any of these files from within the shared root. For the changes to take effect, exit `xstopview` and either restart or send `SIGUSR1` to the corresponding daemon(s).

The DataWarrior Service Daemon (dwssd)

The `dwssd`, which runs on the sbd node, reads /etc/opt/cray/dws/dwssd.yaml at startup and when it receives the `SIGHUP` signal. For example, if a change is made to `dwssd.yaml`:

```
boot: "sash sbd"
```

reads /etc/opt/cray/dws/dwssd.yaml at startup and when it receives the `SIGHUP` signal. For example, if a change is made to `dwssd.yaml`:

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Q&A

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