COHESITY

IRIS v6.3.1x //JPMC
ACCESSIBILITY AUDIT

Prepared by

Hashedin | HUX. | Oct 14, 2019

ACCESSIBILITY
TESTING

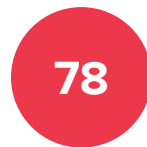How did we perform testing?

JPMC requirement only

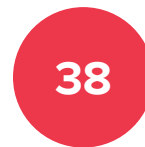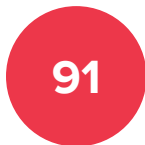15 MAY - 15 JUN '2019

1
Month
Testing Activity

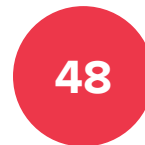**78**
WCAG 2.0
Guidelines

38
JPMC
Needed only

1 / 3
Not Applicable
for IRIS UI

91
Total Tests
performed

479
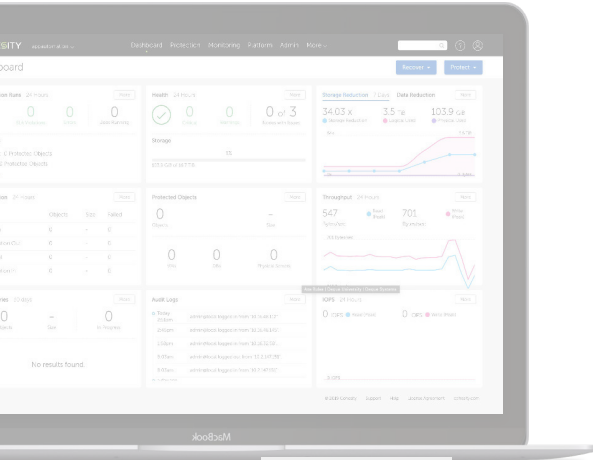**UI Screenshots**
logged

48
JIRA Tickets
raised

58%
Initial Compliance to
JPMC Requirements

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HOW
is testing
performed

WCAG Success Criteria	Level	Brief Description	WCAG 2.0 Principle	WCAG 2.0 Guidelines	Sufficient Techniques (Test Methodology)	Test Procedure
1.3.3	A	Sensory Characteristics	Adaptable (Perceivable)	link	G96: Providing textual identification of items that otherwise rely only on sensory information to be understood	Find all references in the Web page that mention the shape, size, or position of an object. For each such item: Check that the reference contains additional information that allows the item to be located and identified without any knowledge of its shape, size, or relative position.
1.4.1	A	Use of Color (Color Alone used to visually convey meaning)	Distinguishable (Perceivable)	link	G14: Ensuring that information conveyed by color differences is also available in text	For each item where a color difference is used to convey information: Check that the information conveyed is also available in text and that the text is not conditional content.
1.4.3	AA	Contrast (minimum)	Distinguishable (Perceivable)	link	G18: Ensuring that a contrast ratio of at least 4.5:1 or (3:1) exists between text (and images of text) and background behind the text; SL13: Providing A Style Switcher To Switch To High Contrast	Use Color Contrast Analyser application
1.4.4	AA	Resize text	Distinguishable (Perceivable)	link	C12: Using percent for font sizes	Check that the value of the CSS property that defines the font size is a percentage.
					C14: Using em units for font sizes	Check that the value of the CSS property that defines the font size is expressed in em units.
					G146: Using liquid layout	Display content in a user agent. Increase text size to 200%. Check whether all content and functionality is available with no horizontal scrolling.
					G178: Providing controls on the Web page that allow users to incrementally change the size of all text on the page up to 200 percent	Set the viewport size to 1024px by 768px or larger. Increase the text size and check to see if the text size increased. Check that the text size can be increased to 200% of the original size.

- WCAG2.0 Guidelines spread across 4 principles
  - **Perceivable, Operable, Understandable, Robust**
- Average 3 test performed for every requirement
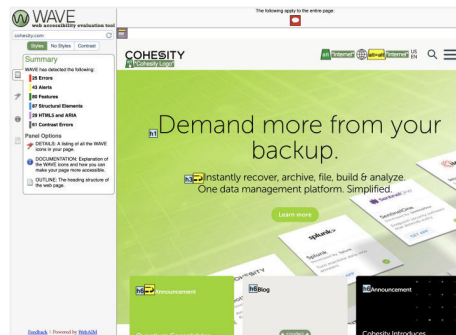- 60% guidelines are validated using automated tools

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WHICH
tools did
we use
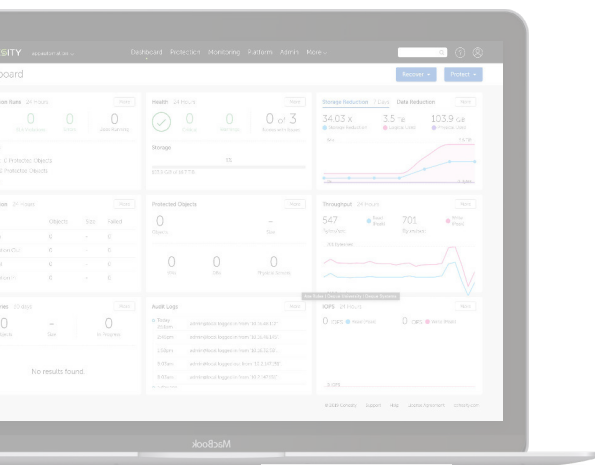
Opens browser-inset, locates errors simultaneously, very popular tool
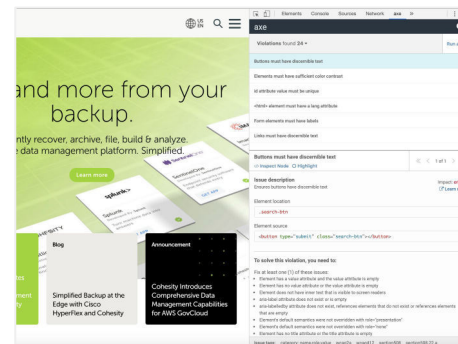
Opens within "Inspect page", highlights errors on demand

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WHICH
tools did
we use
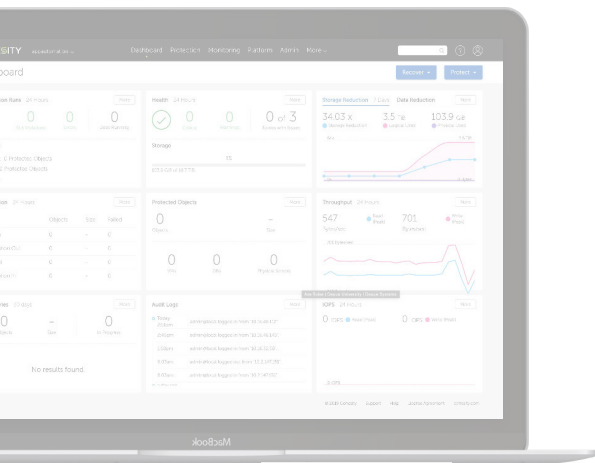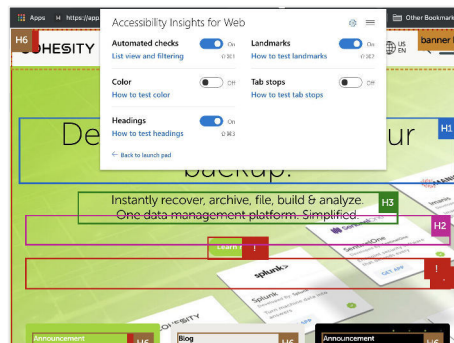
Quick vs detailed assessment, keyboard
tabbing, linearization, landmarks & sections
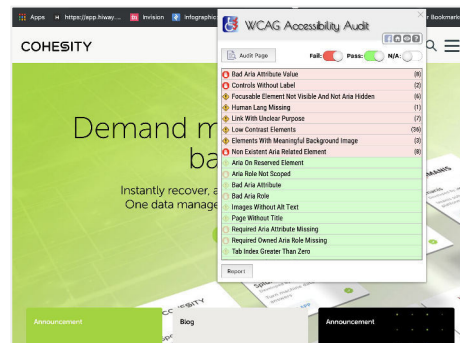
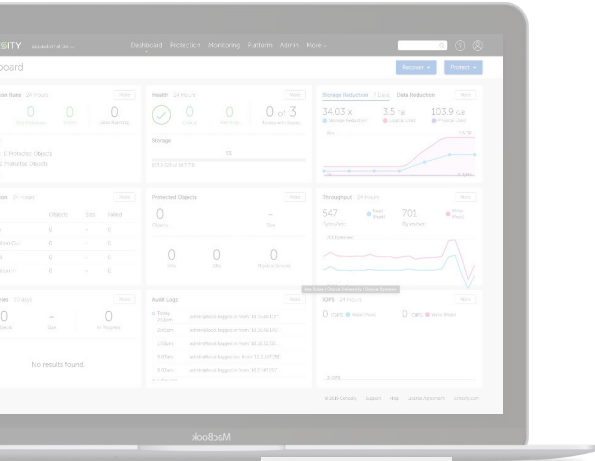Displays accessible components as well,
HTML based Audit Report
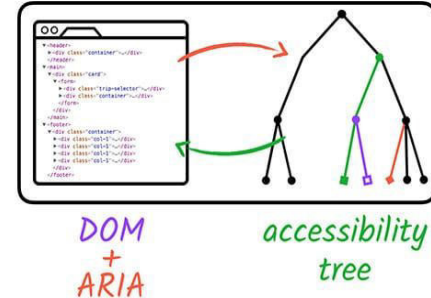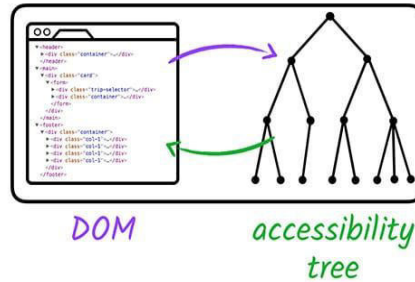
KEYBOARD
Accessibility
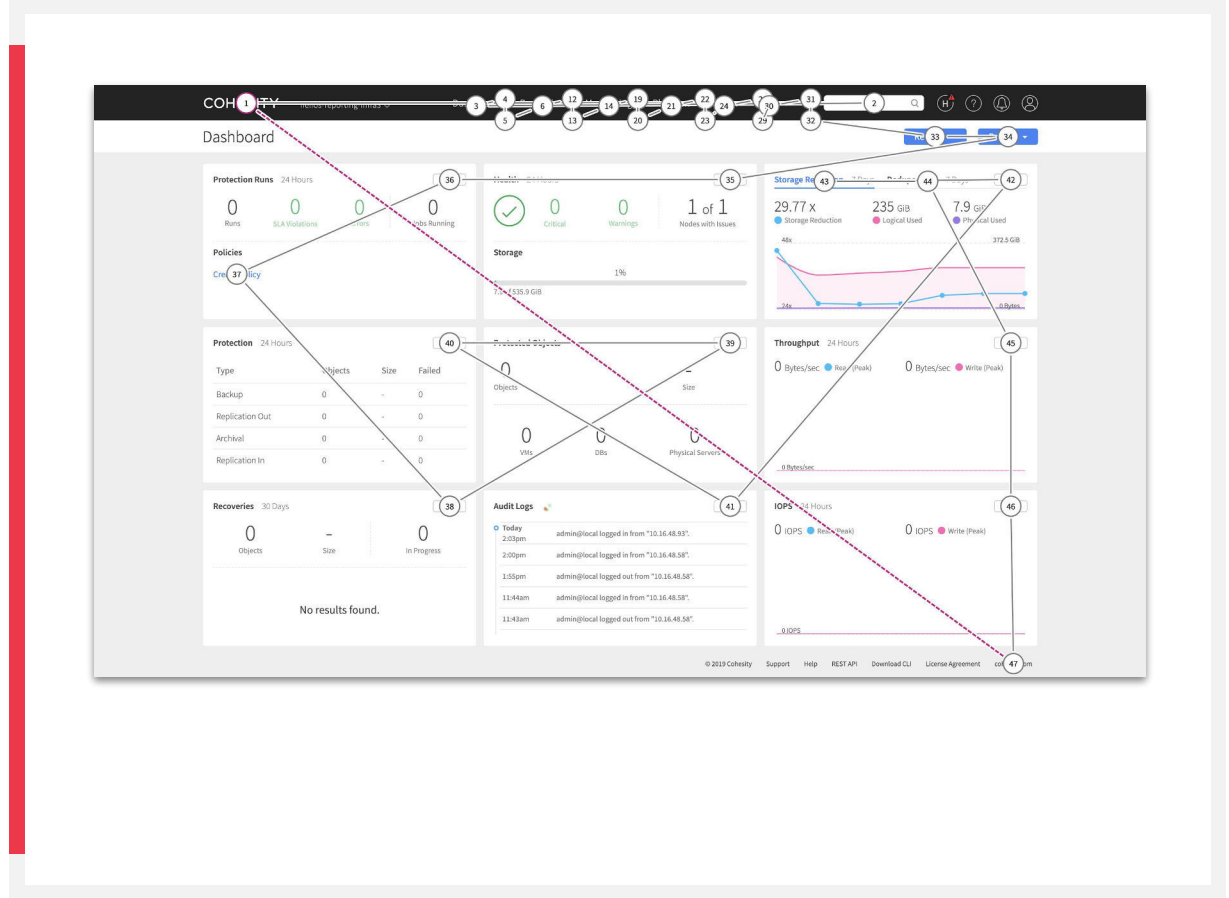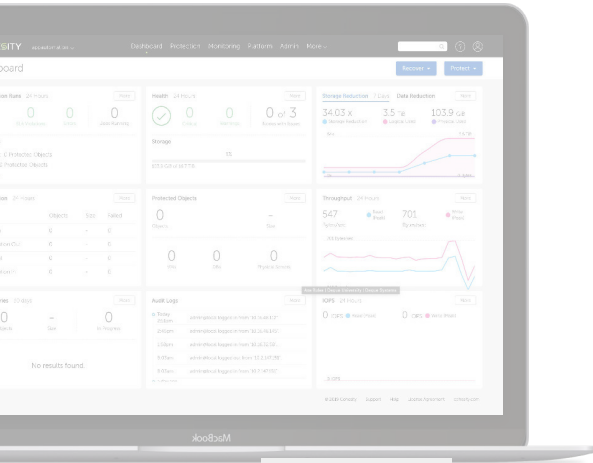
WAI ARIA
What is it?

Complex web applications become inaccessible when assistive technologies cannot determine the page semantics behind portions of a document
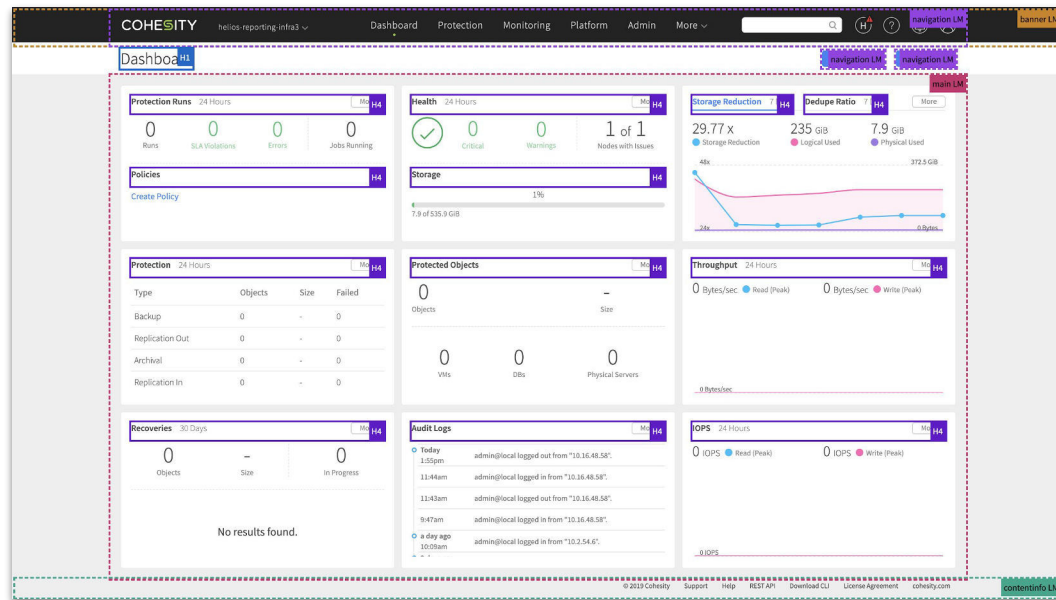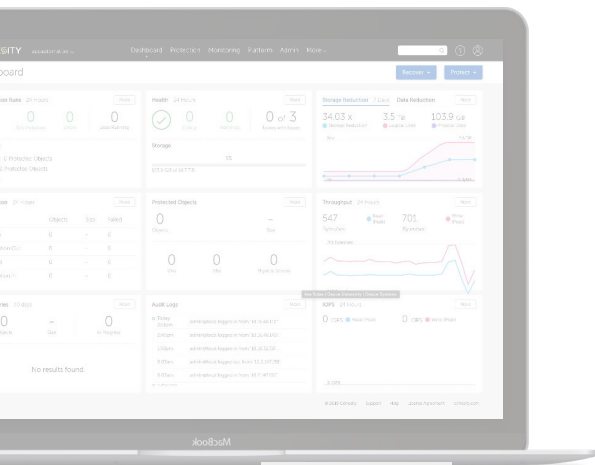
ARIA divides the semantics into roles, states and properties supported by the roles
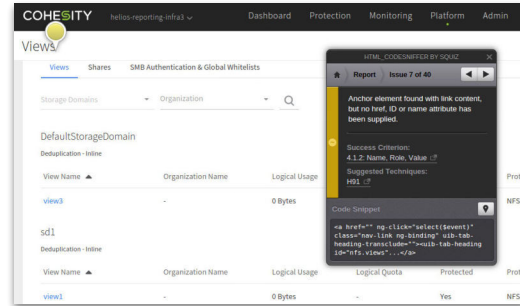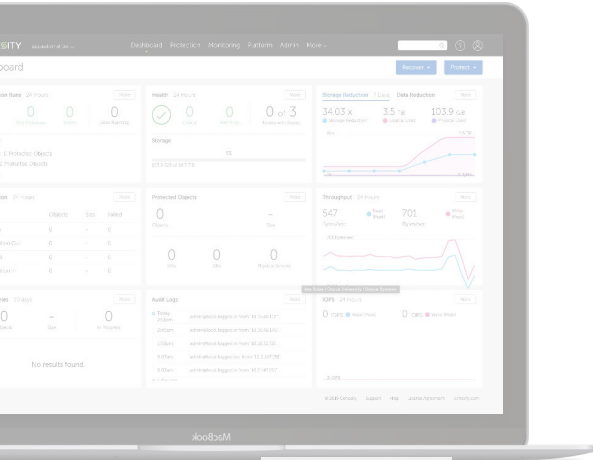
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ARIA
Landmarks
& Headers

HOW
did we
log them

Screenshots

HTML based Audit Report

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ACCESSIBILITY
FIXING

How did we fix the
issues to improve
the compliance?

JPMC requirement only

01 JUL - 30 SEP '2019

3

Months
UI Fixing by dev

2

Browser plugins
used for fixing

6

Browser plugins
used for testing

2

Times full product
Accessibility Testing

CSS

Color Contrast
Fixed

16

ARIA guidelines
identified

9

ARIA guidelines
FIXED

76%

Final Compliance to
JPMC Requirements
after UI Fixing

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ACCESSIBILITY FIXING

ARIA

JPMC requirement only

NOT FIXED **ARIA1:** Using the aria-describedby property to provide a descriptive label for user interface controls

FIXED **ARIA2:** Identifying a required field with the aria-required property

FIXED **ARIA7:** Using aria-labelledby for link purpose

FIXED **ARIA8:** Using aria-label for link purpose

NOT FIXED **ARIA9:** Using aria-labelledby to concatenate a label from several text nodes

FIXED **ARIA11:** Using ARIA landmarks to identify regions of a page

FIXED **ARIA12:** Using role=heading to identify headings

FIXED **ARIA13:** Using aria-labelledby to name regions and landmarks

NOT FIXED **ARIA14:** Using aria-label to provide an invisible label where a visible label cannot be used

NOT FIXED **ARIA16:** Using aria-labelledby to provide a name for user interface controls

NOT FIXED **ARIA17:** Using grouping roles to identify related form controls

FIXED **ARIA18:** Using aria-alertdialog to Identify Errors

FIXED **ARIA20:** Using the region role to identify a region of the page

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ACCESSIBILITY FIXING

Other important issues

JPMC requirement only

FIXED	**H37:** Using alt attributes on img elements
FIXED	**H51:** Using table markup to present tabular information
FIXED	**H42:** Using h1-h6 to identify headings
FIXED	**H97:** Grouping related links using the nav element
FIXED	**H43:** Using id and headers attributes to associate data cells with header cells in data tables
FIXED	**H69:** Providing heading elements at the beginning of each section of content
FIXED	**G125:** Providing links to navigate to related Web pages
FIXED	**C15:** Using CSS to change the presentation of a user interface component when it receives focus
FIXED	**G165:** Using default focus indicator so that high visibility default focus indicators will carry over
FIXED	**G80:** Providing a submit button to initiate a change of context
FIXED	**SCR18:** Providing client-side validation and alert
FIXED	**G89:** Providing expected data format and example
FIXED	**G177:** Providing suggested correction text

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ACCESSIBILITY FIXING

Other important issues

JPMC requirement only

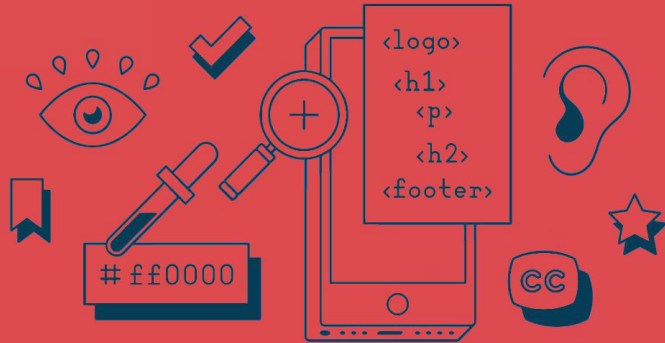NOT FIXED   **H85:** Using OPTGROUP to group OPTION elements inside a SELECT

NOT FIXED   **SL13:** Providing A Style Switcher To Switch To High Contrast

NOT FIXED   **G146:** Using liquid layout

NOT FIXED   **ARIA17:** Using grouping roles to identify related form controls

NOT FIXED   **G178:** Providing controls on the Web page that allow users to incrementally change the size of all text on the page up to 200 percent

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SAMPLES

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ISSUE #1

- **Guideline violated** - 1.3.1. Info & Relationship
- **Severity:** A
- **Fix:** Use appropriate labels attributes for form fields like **aria-label** or **aria-labelledby**
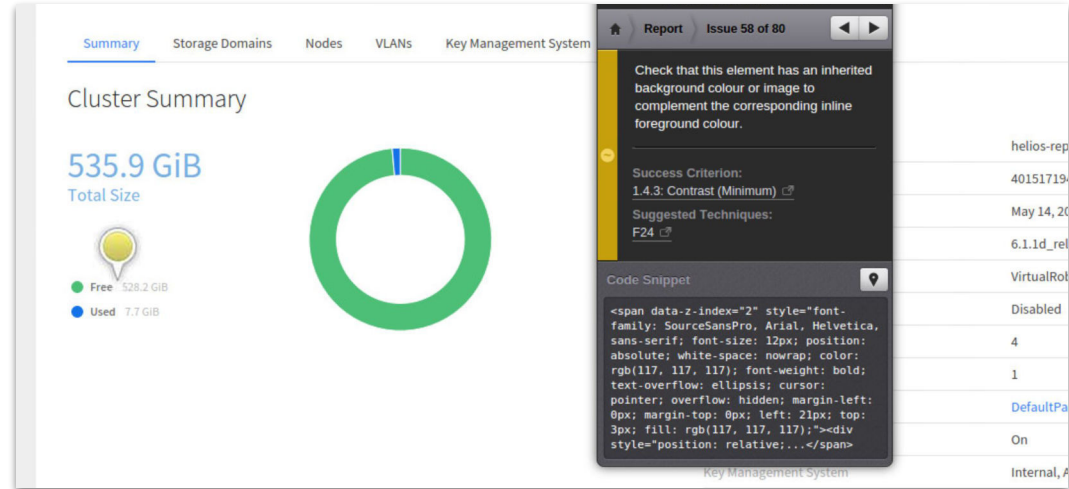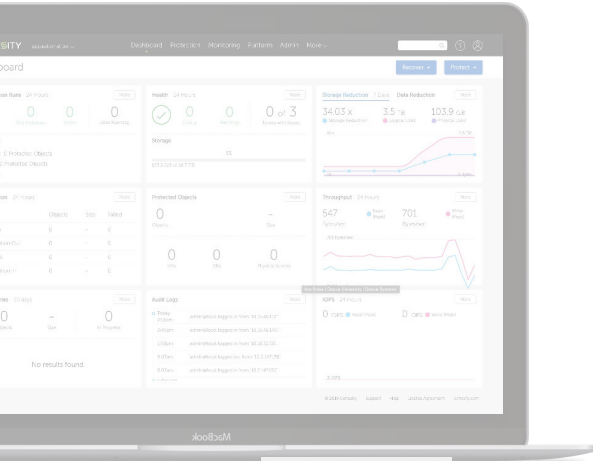
ISSUE #2
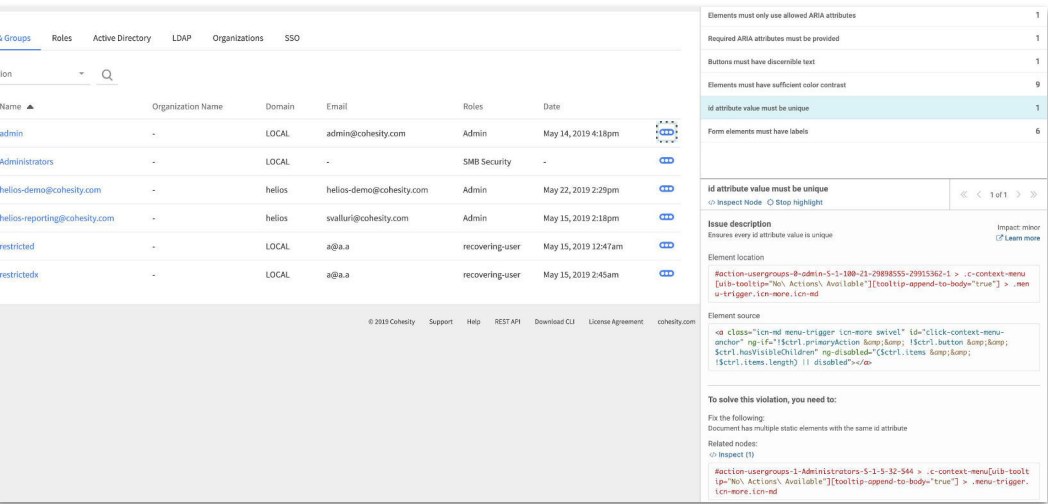
- **Guideline violated** - 3.3.2. Labels or Instructions

- **Severity:** A

- **Fix:** Use the **aria-describedby** property to provide a descriptive label for user interface controls
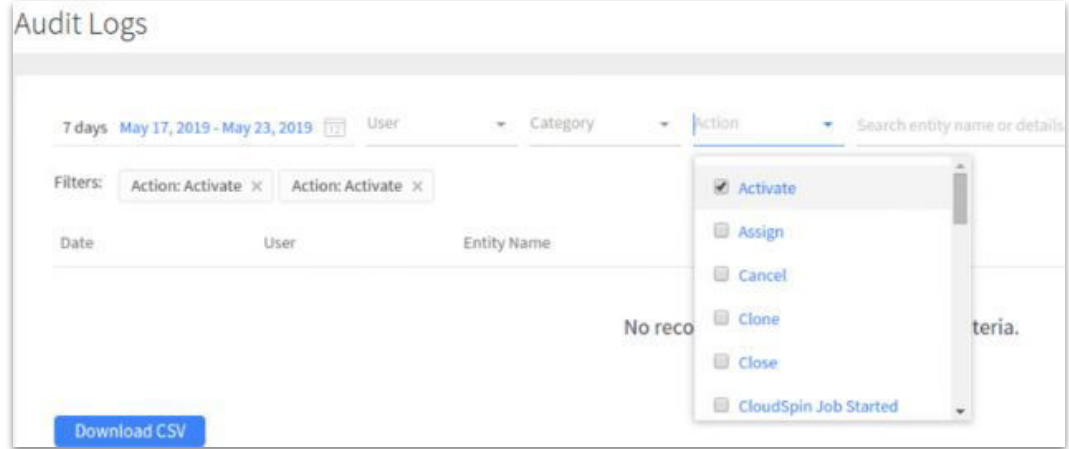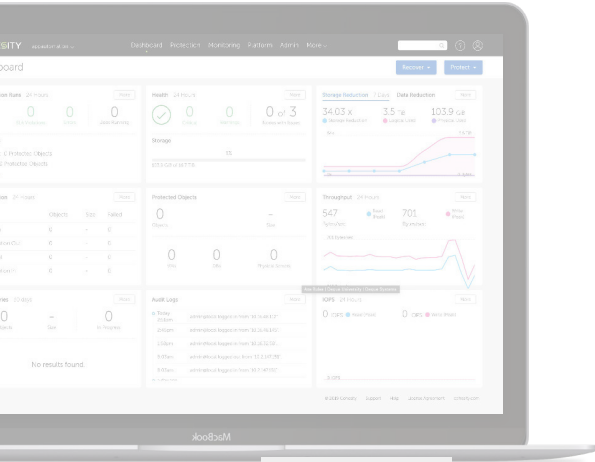
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ISSUE #3

- **Guideline violated** - 1.4.3. Contrast (Minimum)

- **Severity:** AA

- **Fix:** Ensure the contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text
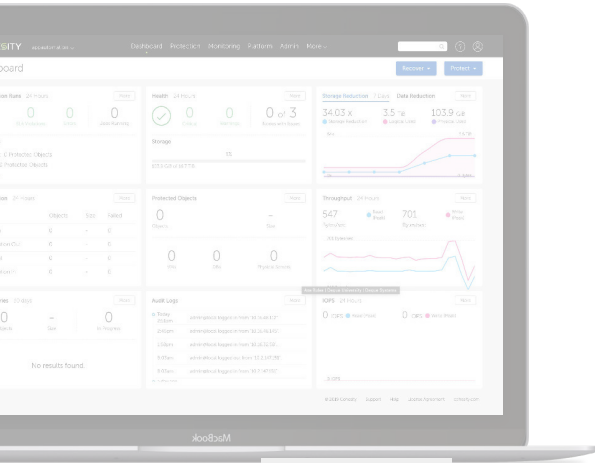
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ISSUE #4

- **Guideline violated** - 2.1.2. No Keyboard Trap
- **Severity:** A
- **Fix:** Tab through content from start to finish. Check to see that keyboard focus is not trapped in any of the content and if it is possible to move keyboard focus out of the UI element or plug-in content without closing the user agent or restarting the system.

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ISSUE #5

- **Guideline violated** - 3.1.2. Language of parts
- **Severity:** AA
- **Fix:** For each element in the document, check that the human language of the content of the element is the same as the inherited language for the element as specified in HTML 4.01, Inheritance of language codes.

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