

Network Development Group Accessibility Conformance Report

VPAT® Version 2.4 WCAG Edition

Name of Product/Version: NDG Portal - NDG Online Labs

Product Description: NDG Online is a hands-on IT training solution with environments right in your browser. We offer a growing selection of online courses and labs featuring course books, videos, lab exercises, and assessments. NDG Online implements a "practice as you read" approach to learning.

Date: October 12, 2020

Contact Information: hostedsupport@netdevgroup.com

Evaluation Method Used: Selected pages within the NDG Portal were reviewed against the WCAG 2.0 and 2.1 specifications by an experienced accessibility consultant. The consultant:

- Ran a set of scripts across the page to identify problems that can be found with a set of automated testing tools.
- Checked the validity of the HTML and CSS against W3C standards, using W3C validator Suite ©.
- Checked for other issues using browser-based tools.
- Navigated the website by reading the site content in linear fashion to identify any potential barriers for people using assistive technologies.

Tools used: W3C validator Suite, HiSoftware Compliance Sheriff, Color Contrast Check Tool, Chrome 74 (including compatibility modes and developer modes), NVDA, Windows Magnifier

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.1	Level A (Yes) Level AA (Yes) Level AAA (No)

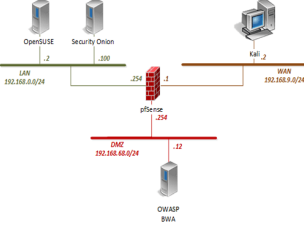
Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports:** The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports:** Some functionality of the product does not meet the criterion.
- **Does Not Support:** The majority of product functionality does not meet the criterion.
- **Not Applicable:** The criterion is not relevant to the product.
- **Not Evaluated:** The product has not been evaluated against the criterion.

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Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
<p>1.1.1 Non-text Content (Level A)</p>	<p>Does not support</p>	<p>Issue: Image map area missing alternative text Pages with issue: Lab Page</p>  <p>Implications to the users Image map areas or clickable hot spots provide important functionality that must be provided in alternative text. Without alternative text, the function of the area is not made available to screen reader users or when images are unavailable.</p> <p>Issue: Missing alternative text Pages with issue: https://portal.netdevgroup.com/learn</p> <p>Implications Each image must have an alt attribute. Without alternative text, the content of an image will not be available to screen reader users or when the image is unavailable.</p> <p>The <i>Content</i> document has some accessibility issues related to non-text content.</p>
<p>1.2.1 Audio-only and Video-only (Prerecorded) (Level A)</p>	<p>Not Applicable</p>	
<p>1.2.2 Captions (Prerecorded) (Level A)</p>	<p>Not Applicable</p>	

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Criteria	Conformance Level	Remarks and Explanations
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Not Applicable	
1.3.1 Info and Relationships (Level A)	Partially Supports	<p>Issue: Missing form label Pages with issue: Lab Page Code used: <code><textarea name="" id="copyClipboardBuffer" class="input mono" style="display: none;"></code></p> <p>What It Means A form control does not have a corresponding label.</p> <p>Implications If a form control does not have a properly associated text label, the function or purpose of that form control may not be presented to screen reader users.</p> <p>Issue: Empty Table Header Pages with issue: Lab Page Code used: <code><th class=""></th></code></p> <p>Implications The <th> element helps associate table cells with the correct row/column headers. A <th> that contains no text may result in cells with missing or incorrect header information.</p> <p>Issue: No Headings structure Pages with issue: Lab Page Implications Headings (<h1>-<h6>) provide important document structure, outlines, and navigation functionality to assistive technology users.</p>
1.3.2 Meaningful Sequence (Level A)	Supports	
1.3.3 Sensory Characteristics (Level A)	Supports	

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Criteria	Conformance Level	Remarks and Explanations
1.4.1 Use of Color (Level A)	Supports	
1.4.2 Audio Control (Level A)	Supports	
2.1.1 Keyboard (Level A)	Partially Supports	<p>Web: The majority of the system functions could be operated using a keyboard-only interface; however, there were several significant exceptions that would make the use of the system extremely challenging for keyboard-only users:</p> <p>Navigating to either of those menu options: <i>Open SUSE, Security Onion, OWASP BWA</i> Would trap the user's focus in a loaded 'console'. The testers were not able to get the focus 'out of the console' using common shortcuts. The focus was trapped inside of the console.</p> <p>When system 'disconnects' a modal window is displayed to the user: "Server disconnected"; however, the focus remains with the main page, so, any attempt to close the window using only the keyboard fails.</p>
2.1.2 No Keyboard Trap (Level A)	Does not support	<p>Web: Navigating to either of those menu options: <i>Open SUSE, Security Onion, OWASP BWA</i> Would trap the user's focus in a loaded 'console'. The testers were not able to get the focus 'out of the console' using common shortcuts. The focus was trapped inside of the console</p> <p>When system 'disconnects' a modal window is displayed to the user: "Server disconnected"; however, the focus remains with the main page, so, any attempt to close the window using only the keyboard fails.</p>
2.1.4 Character Key Shortcuts (Level A)	Supports	

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Criteria	Conformance Level	Remarks and Explanations
2.2.1 Timing Adjustable (Level A)	Supports	Web: Although an argument can be made in favor of providing the users with the ability to further extend time remaining for completion of the lab, the lab time limit was viewed by the testers as an important part of the learning process; so, no violations were recorded.
2.2.2 Pause, Stop, Hide (Level A)	Supports	
2.3.1 Three Flashes or Below Threshold (Level A)	Not Applicable	
2.4.1 Bypass Blocks (Level A)	Partially Supports	Web: The guideline for this criteria is mainly met, but keyboard-only users could further benefit from the ability to 'Skip to Content' or similar.
2.4.2 Page Titled (Level A)	Supports	
2.4.3 Focus Order (Level A)	Supports	
2.4.4 Link Purpose (In Context) (Level A)	Does not support	<p>Web: Violations of this guideline were detected: Issue Image map area missing alternative text Pages with issue: Lab Page</p>
2.5.1 Pointer Gestures (Level A)	Supports	

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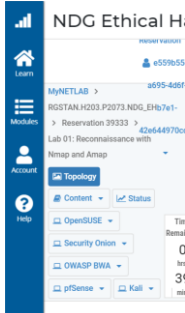
Criteria	Conformance Level	Remarks and Explanations
2.5.2 Pointer Cancellation (Level A)	Supports	
2.5.3 Label in Name (Level A)	Does not support	<p>Web: Issue: Missing form label Pages with issue: Lab Page Code used: <pre><textarea name="" id="copyClipboardBuffer" class="input mono" style="display: none;"></pre> What It Means A form control does not have a corresponding label. Implications If a form control does not have a properly associated text label, the function or purpose of that form control may not be presented to screen reader users. Form labels also provide visible descriptions and larger clickable targets for form controls.</p>
2.5.4 Motion Actuation (Level A)	Not applicable	
3.1.1 Language of Page (Level A)	Does not support	<p>Both 'Content' pdf document and lab page had document identifier missing: Implications Identifying the language of the page allows screen readers to read the content in the appropriate language. It also facilitates automatic translation of content.</p>
3.2.1 On Focus (Level A)	Supports	
3.2.2 On Input (Level A)	Does not support	<p>Web: The majority of menu elements and anchor links are accordingly marked; however, the system provides no indication that navigating to either of those menu options would trap the user's focus in a loaded 'console'.</p>
3.3.1 Error Identification (Level A)	Supports	<p>Web: The system provides a wide range of messages, aimed to assist the user in completing his actions.</p>
3.3.2 Labels or Instructions (Level A)	Does not support	

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Criteria	Conformance Level	Remarks and Explanations
4.1.1 Parsing (Level A)	Does not support	Web: Although the majority of the code is quite clean, some parsing errors were found.
4.1.2 Name, Role, Value (Level A)	Supports	

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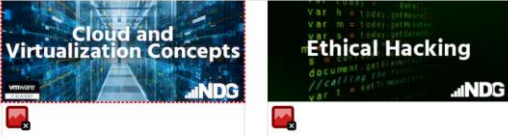

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not Applicable	
1.2.5 Audio Description (Prerecorded) (Level AA)	Not Applicable	
1.3.4 Orientation (Level AA)	Partially supports	<p>Web: The majority of the functions are available through the system, although some screens did not scale well and required specific orientation to be used on smaller devices:</p> 
1.3.5 Identify Input Purpose (Level AA)	Partially supports	<p>Web:</p> <p>Issue: Missing form label</p> <p>Pages with issue: Lab Page</p> <p><i>Code used:</i></p> <pre><textarea name="" id="copyClipboardBuffer" class="input mono" style="display: none;"></pre> <p>What It Means</p> <p>A form control does not have a corresponding label.</p> <p>Implications</p> <p>If a form control does not have a properly associated text label, the function or purpose of that form control may not be presented to screen reader users. Form labels also provide visible descriptions and larger clickable targets for form controls.</p>

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Criteria	Conformance Level	Remarks and Explanations
<p>1.4.3 Contrast (Minimum) (Level AA)</p>	<p>Does not support</p>	<p>Web: The majority of the menu items don't use the color palette providing contrast to meet the criteria</p>  <p>The light blue color used for the foreground text (#428BCA) does on a white background results in contrast ratio of 3.63.</p>
<p>1.4.4 Resize text (Level AA)</p>	<p>Does not support</p>	<p>Web: This criteria check failed due to CSS (core.css), using absolute units (px):</p> <p>Code used:</p> <pre>.font-normal { font-family: "Roboto", "Helvetica Neue", "Arial", "sans-serif"; font-weight: 400; font-size: 14px; color: #212121; } .font-label { font-family: "Roboto Condensed", "Arial Narrow", "sans-serif"; font-weight: 700; font-size: 14px; color: #787878; }</pre> <p>Just a snippet of CSS used above, all the units are specified in px</p>

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Criteria	Conformance Level	Remarks and Explanations
<p>1.4.5 Images of Text (Level AA)</p>	<p>Does not support</p>	<p>Web: This guideline was failed for using images with text in them, without alt text. Issue: Missing alternative text Pages with issue: https://portal.netdevgroup.com/learn</p>  <p>Implications Each image must have an alt attribute. Without alternative text, the content of an image will not be available to screen reader users or when the image is unavailable.</p>
<p>1.4.10 Reflow (Level AA)</p>	<p>Does not support</p>	<p>Web: The content of some screens could not be displayed without loss of information or functionality, and without requiring scrolling in two dimensions for: Vertical scrolling content at a width equivalent to 320 CSS pixels; Horizontal scrolling content at a height equivalent to 256 CSS pixels.</p> 
<p>1.4.11 Non-text Contrast (Level AA)</p>	<p>Supports</p>	<p>Web: The contrast ratio for adjacent colors was 3:1 as required.</p>

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Criteria	Conformance Level	Remarks and Explanations
1.4.12 Text Spacing (Level AA)	Supports	
1.4.13 Content on Hover or Focus (Level AA)	Not Applicable	
2.4.5 Multiple Ways (Level AA)	Not Applicable	
2.4.6 Headings and Labels (Level AA)	Does not support	<p>Web: The same issues as reported above violated this guideline:</p> <p>Issue: Missing form label Pages with issue: Lab Page Code used: <textarea name="" id="copyClipboardBuffer" class="input mono" style="display: none;"> What It Means A form control does not have a corresponding label. Implications If a form control does not have a properly associated text label, the function or purpose of that form control may not be presented to screen reader users. Form labels also provide visible descriptions and larger clickable targets for form controls.</p>
2.4.7 Focus Visible (Level AA)	Partially supports	<p>Web: The focus is easily distinguishable and visible for most of the interactive components, aside from the issues reported for modal windows appearing and not capable of getting the focus.</p>
3.1.2 Language of Parts (Level AA)	Not Applicable	
3.2.3 Consistent Navigation (Level AA)	Partially supports	<p>Web: The navigation through the pages is consistent, aside from several issues reported against 2.1.1 and 2.1.2 guidelines.</p>
3.2.4 Consistent Identification (Level AA)	Supports	
3.3.3 Error Suggestion (Level AA)	Supports	
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not Applicable	

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Criteria	Conformance Level	Remarks and Explanations
4.1.3 Status Messages (Level AA)	Supports	Web: The lab page provides status messages regarding the time left, status of the server, etc.

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Table 3: Success Criteria, Level AAA

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA)	Not Evaluated	
1.2.7 Extended Audio Description (Prerecorded) (Level AAA)	Not Evaluated	
1.2.8 Media Alternative (Prerecorded) (Level AAA)	Not Evaluated	
1.2.9 Audio-only (Live) (Level AAA)	Not Evaluated	
1.3.6 Identify Purpose (Level AAA 2.1 only)	Not Evaluated	
1.4.6 Contrast (Enhanced) (Level AAA)	Not Evaluated	
1.4.7 Low or No Background Audio (Level AAA)	Not Evaluated	
1.4.8 Visual Presentation (Level AAA)	Not Evaluated	
1.4.9 Images of Text (No Exception) (Level AAA)	Not Evaluated	
2.1.3 Keyboard (No Exception) (Level AAA)	Not Evaluated	
2.2.3 No Timing (Level AAA)	Not Evaluated	
2.2.4 Interruptions (Level AAA)	Not Evaluated	
2.2.5 Re-authenticating (Level AAA)	Not Evaluated	
2.2.6 Timeouts (Level AAA)	Not Evaluated	
2.3.2 Three Flashes (Level AAA)	Not Evaluated	
2.3.3 Animation from Interactions (Level AAA)	Not Evaluated	
2.4.8 Location (Level AAA)	Not Evaluated	
2.4.9 Link Purpose (Link Only) (Level AAA)	Not Evaluated	
2.4.10 Section Headings (Level AAA)	Not Evaluated	
2.5.5 Target Size (Level AAA)	Not Evaluated	
2.5.6 Concurrent Input Mechanisms (Level AAA)	Not Evaluated	
3.1.3 Unusual Words (Level AAA)	Not Evaluated	
3.1.4 Abbreviations (Level AAA)	Not Evaluated	

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Criteria	Conformance Level	Remarks and Explanations
3.1.5 Reading Level (Level AAA)	Not Evaluated	
3.1.6 Pronunciation (Level AAA)	Not Evaluated	
3.2.5 Change on Request (Level AAA)	Not Evaluated	
3.3.5 Help (Level AAA)	Not Evaluated	
3.3.6 Error Prevention (All) (Level AAA)	Not Evaluated	

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