# Communicating Passwords

INSTRUCTIONS: The password policy may tell users whether or not they can provide their passwords to other people, under particular circumstances.

COMMENT: About communicating passwords to others, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

## Sharing with Others

INSTRUCTIONS: The policy may address whether passwords can be communicated to other people.

COMMENT: About communicating passwords to others, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Communication to Other People**

INSTRUCTIONS: The policy may address whether passwords can be communicated to other people.

COMMENT: About communicating passwords to others, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.1

#TITLE: Communicating passwords to others

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example 1:</dt><dd>**Do not share your password with anyone.** </dd><br><dt>Rule example 2:</dt><dd>**Do not disclose your login details except at your usual banking website.** (A rule about communicating outside of the organization.)</dd></dl></font><p>

#FIX: better example 2

TEXT: Does the policy mention communicating passwords to others?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.1.1

INDENT: 1

DISPLAY\_WHEN: 1.1.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated to *anyone*.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

BNF: Users must not communicate passwords to anyone.

()Passwords SHOULD NOT be communicated to *anyone*.<p>

BNF: Users should not communicate passwords to anyone.

()Passwords MUST NOT be communicated to anyone *outside of the organization*.

BNF: Users must not communicate passwords to a third party.

()Passwords SHOULD NOT be communicated to anyone *outside of the organization*.<p>

BNF: Users should not communicate passwords to a third party.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

## Sharing in Emergencies

COMMENT: About communicating passwords in emergencies, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**During Emergencies**

COMMENT: About communicating passwords in emergency situations, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.2

#TITLE: Exceptions for Emergency Situations

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Users may not share passwords except in emergency circumstances or when there is an overriding operational necessity.** </dd></dl></font><p>

TEXT: Does the policy mention communicating passwords during emergencies?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.2.1

INDENT: 1

DISPLAY\_WHEN: 1.2.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated, *except in emergency situations*.

BNF: Users must not communicate passwords except in an emergency.

()Passwords SHOULD NOT be communicated, *except in emergency situations*.<p>

BNF: Users should not communicate passwords except in an emergency.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Using These Methods

INSTRUCTIONS: The policy may address specific methods for communicating passwords (for example, mail, email, Internet, phone, etc.).

COMMENT: About methods for communicating passwords to others, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

### Any Method

COMMENT: About communicating passwords by any method, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**By Any Method**

COMMENT: About communicating passwords by any method, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.3

#consider: rather than “by any method” use by *any method* in-line

#TITLE: Communication “by any method”

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must not be distributed through any format or medium.**</dd></dl></font><p>

TEXT: Does the policy mention communicating passwords by *any method*?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.3.1

INDENT: 1

#TEXT: Select the response that best represents the policy statement for this topic.

DISPLAY\_WHEN: 1.3.C

()Passwords MUST NOT be communicated by *any method*.

BNF: Users must not communicate passwords by any means.

()Passwords SHOULD NOT be communicated by *any method*.<p>

BNF: Users should not communicate passwords by any means.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Any Network

INSTRUCTIONS: TESTING GROUP INSTRUCTIONS BUG

COMMENT: About communicating passwords using any network, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Using Any Network**

COMMENT: About communicating passwords using any network, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.4

#TITLE: Communication using any network

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must be encrypted when transmitted across any network.**</dd></dl></font><p>

TEXT: Does the policy mention communicating passwords using *any network*?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.4.1

INDENT: 1

DISPLAY\_WHEN: 1.4.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated on *any network*.

BNF: Users must not communicate passwords by any network.

()Passwords SHOULD NOT be communicated on *any network*. <p>

BNF: Users should not communicate passwords by any network.

()Passwords MUST NOT be communicated on *any network without encryption*.

BNF: Users must not communicate passwords by any network without encryption.

()Passwords SHOULD NOT be communicated on *any network without encryption*.<p>

BNF: Users should not communicate passwords by any network without encryption.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Internet or a Wide Area Network

COMMENT: About communicating passwords using the Internet or a WAN, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Using the Internet or Wide Area Network**

COMMENT: About communicating passwords using the Internet or a WAN, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.5

#TITLE: Communication using **the Internet or a Wide Area Network (WAN)**

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must be encrypted when transmitted across the Internet.**</dd></dl></font><p>

TEXT: Does the policy mention communicating passwords using the *Internet* or a *Wide Area Network (WAN*)?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.5.1

INDENT: 1

DISPLAY\_WHEN: 1.5.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated using the *Internet* or a *WAN*.

BNF: Users must not communicate passwords by Internet or wide-area network.

()Passwords SHOULD NOT be communicated using the *Internet* or a *WAN*. <p>

BNF: Users should not communicate passwords by Internet or wide-area network.

()Passwords MUST NOT be communicated onthe *Internet* or a *WAN without encryption*.

BNF: Users must not communicate passwords by Internet or wide-area network without encryption.

()Passwords SHOULD NOT be communicated onthe *Internet* or a *WAN without encryption*. <p>

BNF: Users should not communicate passwords by Internet or wide-area network without encryption.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Local Area Network

COMMENT: About communicating passwords using a local area network, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Using a Local Area Network**

COMMENT: About communicating passwords using a local area network, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.6

#TITLE: Communication using a **Local Area Network (LAN)**

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords should be encrypted when transmitted across a local area network.**</dd></dl></font><p>

TEXT: Does the policy mention communicating passwords using a *Local Area Network (LAN*)?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.6.1

INDENT: 1

DISPLAY\_WHEN: 1.6.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated using a *LAN*.

BNF: Users must not communicate passwords by local area network.

()Passwords SHOULD NOT be communicated using a *LAN*. <p>

BNF: Users should not communicate passwords by local area network.

()Passwords MUST NOT be communicated ona *LAN without encryption*.

BNF: Users must not communicate passwords by local area network without encryption.

()Passwords SHOULD NOT be communicated ona *LAN without encryption*. <p>

BNF: Users should not communicate passwords by local area network without encryption.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Email

COMMENT: About communicating passwords using email, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**By Email**

COMMENT: About communicating passwords using email, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.7

#TITLE: Communication by **email**

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must not be sent in email unless encrypted.**</dd><dl></font><p>

TEXT: Does the policy mention communicating passwords using *email*?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.7.1

INDENT: 1

DISPLAY\_WHEN: 1.7.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated by *email*.

BNF: Users must not communicate passwords by email.

()Passwords SHOULD NOT be communicated by *email. <p>*

BNF: Users should not communicate passwords by email.

()Passwords MUST NOT be communicated by *email without encryption*.

BNF: Users must not communicate passwords by email without encryption.

()Passwords SHOULD NOT be communicated by *email without encryption*. <p>

BNF: Users should not communicate passwords by email without encryption.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Postal Mail

COMMENT: About sending passwords by postal mail, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**By Postal mail**

COMMENT: About communicating passwords using postal mail, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.8

TITLE: Sending passwords by postal mail

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords should not be sent in postal mail without encryption.**</dd></dl></font><p>

TEXT: Does the policy mention sending passwords by *postal mail*?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.8.1

INDENT: 1

DISPLAY\_WHEN: 1.8.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be sent by *postal mail*.

BNF: Users must not communicate passwords by mail.

()Passwords SHOULD NOT be sent by *postal mail.<p>*

BNF: Users should not communicate passwords by mail.

()Passwords MUST NOT be sent by *postal mail without encryption*.

BNF: Users must not communicate passwords by mail without encryption.

()Passwords SHOULD NOT be sent by *postal mail without encryption*. <p>

BNF: Users should not communicate passwords by mail without encryption.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 1.9

TITLE: <p>Sending passwords with user IDs by postal mail

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords and user IDs must not be sent in physical mail together.**</dd></dl></font><p>

TEXT: Does the policy mention sending passwords and user IDs together by postal mail?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.9.1

INDENT: 1

DISPLAY\_WHEN: 1.9.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be sent with their user IDs by postal mail.

BNF: Users must not communicate passwords by mail accompanied by the user ID.

()Passwords SHOULD NOT be sent with their user IDs by postal mail. <p>

BNF: Users should not communicate passwords by mail accompanied by the user ID.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Phone and Voicemail

COMMENT: About communicating passwords by phone and voicemail, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**By Phone and voicemail**

COMMENT: About communicating passwords by phone and voicemail, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 1.10

TITLE: Communicating by phone

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must not be communicated over the phone.**</dd></dl></font><p>

TEXT: Does the policy mention communicating passwords by *phone*?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 1.10.1

INDENT: 1

DISPLAY\_WHEN: 1.10.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated by *phone*.

BNF: Users must not communicate passwords by phone.

()Passwords SHOULD NOT be communicated by *phone*. <p>

BNF: Users should not communicate passwords by phone.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 1.11

TITLE: <p>Communicating by voicemail

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must not be left in a phone message.**</dd></dl></font><p>

TEXT: Does the policy mention communicating passwords by *voicemail*?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 1.11.1

INDENT: 1

DISPLAY\_WHEN: 1.11.C

#TEXT: Select the response that best represents the policy statement for this topic.

()Passwords MUST NOT be communicated by *voicemail*.

BNF: Users must not communicate passwords by phone mail.

()Passwords SHOULD NOT be communicated by *voicemail*. <p>

BNF: Users should not communicate passwords by phone mail.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

# Creating Passwords

INSTRUCTIONS: <![CDATA[ You will be asked about what **characters**, **words**, or **pre-existing passwords** can be used in passwords. <p/>The following questions about **characters** address:<br><ul><li>password **length** (minimum and maximum);</li><li>the **types of characters** used in passwords;</li><li>the **positions** within passwords where certain characters can be used; and</li>**<li> combinations, sequences, and patterns** of characters.</li></ul> ]]>

COMMENT: Did you have any problems with questions in this section?

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

() No, I didn’t have any problems with any questions in this section.

() Yes, I had problems with 1 or more questions in this section. [MEMO]

NOTE: provide sufficient detail for reviewers to understand any issues.

## Length

INSTRUCTIONS: The policy may address the **number of characters** that may or may not be used in passwords.

COMMENT: About password length, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Minimum and Maximum**

INSTRUCTIONS: The policy may address the **number of characters** that may or may not be used in passwords.

COMMENT: About password length, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.0

TEXT: Does the policy mention password length?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes <p>

ID: 2.0.0.1

INDENT: 1

DISPLAY\_WHEN: 2.0.C

TEXT: Minimum password length:

()I can’t tell if the policy mentions a *minimum* password length.

()The policy does not mention a *minimum* password length.

()Minimum length is [NUMERICAL]{min::1;; default::0;; invalid\_text:: Enter a number }

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.0.1.1

DISPLAY\_WHEN: 2.0.0.1.C

DISPLAY\_WHERE: 2.0.0.1.C

INDENT: 1

()Passwords MUST have this minimum length.

BNF: Users must create passwords with length greater than or equal to [INSERT]{qref::q.2.0.0.1.C.a} characters.

()Passwords SHOULD have this minimum length. <p>

BNF: Users should create passwords with length greater than or equal to [INSERT]{qref::q.2.0.0.1.C.a} characters.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font> <p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.0.2

INDENT: 1

DISPLAY\_WHEN: 2.0.C

TEXT: Maximum password length:

()I can’t tell if the policy mentions a *maximum* password length.

()The policy does not mention a *maximum* password length.

()Maximum length is [NUMERICAL]{min::1;; gt::q.2.0.0.1.C.a;;default::0;; invalid\_text:: Must be more than the minimum length, if minimum is entered }

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.0.2.1

DISPLAY\_WHEN: 2.0.0.2.C

DISPLAY\_WHERE: 2.0.0.2.C

INDENT: 1

()Passwords MUST NOT exceed this length.

BNF: Users must not create passwords with length greater than or equal to [INSERT]{qref::q.2.0.0.2.C.a} characters.

()Passwords SHOULD NOT exceed this length. <p>

BNF: Users should not create passwords with length greater than or equal to [INSERT]{qref::q.2.0.0.2.C.a} characters.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Character Types

INSTRUCTIONS: The following questions address the **types of characters** and **number of those characters** **types** that may or may not be used in passwords.

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments for topics on this page should be provided below. provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

()I can’t tell if this policy addresses using any of the characters types listed above in passwords.

()The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

### One Type of Character

COMMENT: About this topic, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

#### One Type: Must Use

COMMENT: About this topic, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**One Type-Requirements**

COMMENT: About this topic, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.0.1.0

TITLE: Characters MUST come from 1 character type

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example 1:</dt><dd>**Passwords must include special characters.** (One rule about a single type of character, but it does not specify how many must be included.)</dd><br><dt>Rule example 2:</dt><dd>**Passwords must have at least 1 letter and 1 number.** (Two rules, each about a single type of character.)</dd></dl></font>

TEXT: Does the policy require that passwords have characters from a specific character type?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.0.1.1.1

TITLE:

DISPLAY\_WHEN: 2.0.1.0.C

INDENT: 2

TEXT: Passwords MUST have 1 of the following types of characters:

NOTE: Now selected: [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: “\”these special characters\”: [INSERT]{qref::q.2.0.1.1.1.F.a}”, q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"\”numbers\”", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()uppercase letters

()lowercase letters

()letters, but case is not specified

()numbers

()punctuation

()these special characters: [TEXTBOX]{pattern::(?=^[^A-Za-z0-9\\s]+$)^(?:(.)(?!.\*?\\1))\*$;;invalid\_text:: Enter the specified special characters} <font color=”gray”>(Enter the specified characters without spaces, delimiters or repeats)</font>

()special characters, not specified

()“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

()white space

()“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Select the appropriate character type}

ID: 2.0.1.1.2.1

## .1-A uppercase letters

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.A

DISPLAY\_WHERE: 2.0.1.1.1.A

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.1.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.2

## .2-B lowercase letters

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.B

DISPLAY\_WHERE: 2.0.1.1.1.B

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.3

## .3-C letters, unspec

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.C

DISPLAY\_WHERE: 2.0.1.1.1.C

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.3.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.4

## .4-D numbers

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.D

DISPLAY\_WHERE: 2.0.1.1.1.D

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.4.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.5

## .5-E punctuation

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.E

DISPLAY\_WHERE: 2.0.1.1.1.E

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.5.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.6

## .6-F specials, spec

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.F

DISPLAY\_WHERE: 2.0.1.1.1.F

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.6.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.7

## .7-G specials, unspec

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.G

DISPLAY\_WHERE: 2.0.1.1.1.G

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.7.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.8

## .8-H control chars

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.H

DISPLAY\_WHERE: 2.0.1.1.1.H

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.8.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.9

## .9-I whitespace

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.I

DISPLAY\_WHERE: 2.0.1.1.1.I

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.9.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.2.10

## .10-J all others

INDENT: 1

DISPLAY\_WHEN: 2.0.1.1.1.J

DISPLAY\_WHERE: 2.0.1.1.1.J

()for all characters.

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.10.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#################################

##ID: 2.0.1.1.2

##this question may go away if embedded display\_when subquestion and clone is successful

##INDENT: 2

##DISPLAY\_WHEN: 2.0.1.0.C

##TEXT: Passwords MUST have the selected character type:

##TEXT: Passwords MUST have [INSERT]{qref::q.2.0.1.1.1}

##NOTE: note test: MUST have [INSERT]{qref::q.2.0.1.1.1}

##()For all characters

##BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

##()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

##BNF: Users must create passwords with [INSERT]{qref::q.2.0.1.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

##()For 1 or more, but the policy doesn't say how many<p>

##BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.0.1.1.1}[MOD]{q.2.0.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.1.1.1.F.a}", q.2.0.1.1.1.A::"upper-case letters", q.2.0.1.1.1.B::"lower-case letters", q.2.0.1.1.1.C::"letters (unspec)", q.2.0.1.1.1.D::"numbers", q.2.0.1.1.1.G::"special characters (unspec)", q.2.0.1.1.1.H::"control or non-printable characters (unspec)", q.2.0.1.1.J::"all other characters (unspec)", q.2.0.1.1.1.E::"punctuation", q.2.0.1.1.1.I::”whitespace”}.

##RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.1.1.3

DISPLAY\_WHEN: 2.0.1.0.C

TEXT: Does the policy make another statement requiring that passwords have characters from a specific character type?

()I can't tell

()No

()Yes

CLONE: q.2.0.1.1.1, q.2.0.1.1.3, q.2.0.1.1.2.1, q.2.0.1.1.2.2, q.2.0.1.1.2.3, q.2.0.1.1.2.4, q.2.0.1.1.2.5, q.2.0.1.1.2.6, q.2.0.1.1.2.7, q.2.0.1.1.2.8, q.2.0.1.1.2.9, q.2.0.1.1.2.10

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#### One Type: Should Use

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords should have 1 type of character:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**One Type-Recommendations**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses the use of 1 particular character type for characters in a password.

[]There are 1 or more duplicative policy statements for this topic in the policy. describe all that apply. [MEMO]

[]The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

ID: 2.0.2.0

TITLE: Characters SHOULD come from 1 character type

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords should include special characters.** (One rule about a single type of character.)</dd><br><dt>Rule example 2: </dt><dd>**Passwords should include BOTH letters and numbers.** (Two rules, each about a single type of character.)</dd></dl></font> Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next\_questionnaire('/One%20Type:%20Must%20Not%20Use’)">General Comment</a> page. If a policy specifically mentions the very first character of a password, go to the <b> <a href=”#” onclick=”follow\_link\_with\_next\_questionnaire(’/First%20or%20Last%20Character’)”>Test Without Space</a></b> topic. </font><p style=”font-size: 250%;”> If a policy specifically mentions the very first character of a password, go to the <b> <a href=”#” onclick=”follow\_link\_with\_next\_questionnaire(’/ First%20or%20Last%20Character’)”>Test 1 with Space</a></b> topic. </font><p style=”font-size: 250%;”>

TEXT: Does the policy recommend that passwords have characters from a specific character type?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.0.2.1.1

INDENT: 2

TITLE:

TEXT: Passwords SHOULD have 1 of the following types of characters:

NOTE: Now selected: [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.2.1.1.I:: “whitespace”}

DISPLAY\_WHEN: 2.0.2.0.C

()uppercase letters

()lowercase letters

()letters, but case is not specified

()numbers

()punctuation

()these special characters: [TEXTBOX]{required::required;; invalid\_text:: Enter the specified special characters}<font color=”gray”>(Enter the specified characters without spaces, delimiters or repeats)</font>

()special characters, not specified

()“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”) </font>

()white space

()“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Select the appropriate character type}

ID: 2.0.2.1.2.1

## .1-A uppers

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.A

DISPLAY\_WHERE: 2.0.2.1.1.A

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.1.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.2

## .1B lowers

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.B

DISPLAY\_WHERE: 2.0.2.1.1.B

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.3

## .3-C letters

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.C

DISPLAY\_WHERE: 2.0.2.1.1.C

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.3.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.4

## .4-D numbers

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.D

DISPLAY\_WHERE: 2.0.2.1.1.D

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.4.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.5

## .5-E punctuation

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.E

DISPLAY\_WHERE: 2.0.2.1.1.E

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.5.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.6

## .6-F these specials

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.F

DISPLAY\_WHERE: 2.0.2.1.1.F

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.6.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.7

## .7-G specials

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.G

DISPLAY\_WHERE: 2.0.2.1.1.G

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.7.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.8

## .8-H control

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.H

DISPLAY\_WHERE: 2.0.2.1.1.H

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.8.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.9

## .9-I whitespace

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.I

DISPLAY\_WHERE: 2.0.2.1.1.I

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.9.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.2.10

## .10-J all other chars

INDENT: 1

DISPLAY\_WHEN: 2.0.2.1.1.J

DISPLAY\_WHERE: 2.0.2.1.1.J

#TEXT: Passwords SHOULD have the selected character type:

()for all characters.

BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.10.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

()for 1 or more, but the policy doesn't say how many. <p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation", q.2.0.2.1.1.I:: “whitespace”}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

##############

##ID: 2.0.2.1.2

##INDENT: 2

##DISPLAY\_WHEN: 2.0.2.0.C

##TEXT: Passwords SHOULD have the selected character type:

## ()For all characters

##BNF: Users should create passwords with all characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation"}.

## ()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

##BNF: Users should create passwords with [INSERT]{qref::q.2.0.2.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation"}.

## ()For 1 or more, but the policy doesn't say how many <p>

##BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.0.2.1.1}[MOD]{q.2.0.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.2.1.1.F.a}", q.2.0.2.1.1.A:: "upper-case letters", q.2.0.2.1.1.B:: "lower-case letters", q.2.0.2.1.1.C:: "letters (unspec)", q.2.0.2.1.1.D:: "numbers", q.2.0.2.1.1.G:: "special characters (unspec)", q.2.0.2.1.1.H:: "control or non-printable characters (unspec)", q.2.0.2.1.1.J:: "all other characters (unspec)", q.2.0.2.1.1.E:: "punctuation"}.

##RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.2.1.3

DISPLAY\_WHEN: 2.0.2.0.C

TEXT: Does the policy make another statement recommending that passwords have characters from a specific character type?

()I can't tell

()No

()Yes

CLONE: q.2.0.2.1.1,q.2.0.2.1.3,q.2.0.2.1.2.1,q.2.0.2.1.2.2,q.2.0.2.1.2.3,q.2.0.2.1.2.4,q.2.0.2.1.2.5,q.2.0.2.1.2.6,q.2.0.2.1.2.7,q.2.0.2.1.2.8,q.2.0.2.1.2.9,q.2.0.2.1.2.10

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#### One Type: Must Not Use

# Wording and logic check: does the wording of the second question work?

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords must not have 1 type of character:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**One Type-Prohibitions**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses the use of 1 particular character type for characters in a password.

[]There are 1 or more duplicative policy statements for this topic in the policy. describe all that apply. [MEMO]

[]The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

ID: 2.0.3.0

TITLE: Characters MUST NOT come from a specific character type

INSTRUCTIONS: <p> Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.<font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords must not include special characters.** (One rule about a single type of character.)</dd><br><dt>Rule example 2: </dt><dd>**Passwords must not include special characters OR numbers.** (Two rules, each about a single type of character.)</dd></dl></font>

TEXT: Does the policy prohibit passwords from having characters from a specific character type?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.0.3.1.1

INDENT: 2

TITLE:

TEXT: Passwords MUST NOT have 1 of the following types of characters:

NOTE: Now selected: [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}

DISPLAY\_WHEN: 2.0.3.0.C

()uppercase letters

()lowercase letters

()letters, but case is not specified

()numbers

()punctuation

()these special characters: [TEXTBOX]{required:: required;; invalid\_text:: Enter the specified special characters}<font color=”gray”>(Enter the specified characters without spaces, delimiters or repeats)</font>

()special characters, not specified

()“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

()white space

()“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Select the appropriate character type}

ID: 2.0.3.1.2.1

## .1-A uppers

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.A

DISPLAY\_WHERE: 2.0.3.1.1.A

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.1.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.2

## .2-B lowers

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.B

DISPLAY\_WHERE: 2.0.3.1.1.B

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.3

## .3-C letters

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.C

DISPLAY\_WHERE: 2.0.3.1.1.C

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.3.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.4

## .4-D numbers

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.D

DISPLAY\_WHERE: 2.0.3.1.1.D

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.4.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.5

## .5-E punctuation

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.E

DISPLAY\_WHERE: 2.0.3.1.1.E

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.5.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.6

## .6-F these specials

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.F

DISPLAY\_WHERE: 2.0.3.1.1.F

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.6.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.7

## .7-G specials

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.G

DISPLAY\_WHERE: 2.0.3.1.1.G

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.7.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.8

## .8-H controls

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.H

DISPLAY\_WHERE: 2.0.3.1.1.H

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.8.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.9

## .9-I whitespace

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.I

DISPLAY\_WHERE: 2.0.3.1.1.I

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.9.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.2.10

## .10-J whitespace

INDENT: 1

DISPLAY\_WHEN: 2.0.3.1.1.J

DISPLAY\_WHERE: 2.0.3.1.1.J

#TEXT: Passwords MUST NOT have the selected character type:

()for all characters.

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.10.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation", q.2.0.3.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

##ID: 2.0.3.1.2

##INDENT: 2

##DISPLAY\_WHEN: 2.0.3.0.C

##TEXT: Passwords MUST NOT have the selected character type:

## ()For all characters

##BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation"}.

## ()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

##BNF: Users must not create passwords with [INSERT]{qref::q.2.0.3.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation"}.

## ()For 1 or more, but the policy doesn't say how many <p>

##BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.0.3.1.1}[MOD]{q.2.0.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.3.1.1.F.a}", q.2.0.3.1.1.A:: "upper-case letters", q.2.0.3.1.1.B:: "lower-case letters", q.2.0.3.1.1.C:: "letters (unspec)", q.2.0.3.1.1.D:: "numbers", q.2.0.3.1.1.G:: "special characters (unspec)", q.2.0.3.1.1.H:: "control or non-printable characters (unspec)", q.2.0.3.1.1.J:: "all other characters (unspec)", q.2.0.3.1.1.E:: "punctuation"}.

##RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.3.1.3

DISPLAY\_WHEN: 2.0.3.0.C

TEXT: Does the policy make another statement prohibiting passwords from having characters from a specific character type?

()I can't tell

()No

()Yes

CLONE: q.2.0.3.1.1,q.2.0.3.1.3,q.2.0.3.1.2.1,q.2.0.3.1.2.2,q.2.0.3.1.2.3,q.2.0.3.1.2.4,q.2.0.3.1.2.5,q.2.0.3.1.2.6,q.2.0.3.1.2.7,q.2.0.3.1.2.8,q.2.0.3.1.2.9,q.2.0.3.1.2.10

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#### One Type: Should Not Use

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords should not have 1 type of character:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**One Type-Recommendations Against**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.0.4.0

TITLE: Characters SHOULD NOT come from a specific character type

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords should not include special characters.** (One rule about a single type of character.)</dd><br><dt>Rule example 2: </dt><dd>**Passwords should not include punctuation OR numbers.** (Two rules, each about a single type of character.)</dd><dl></font>

TEXT: Does the policy recommend that passwords not have characters from a specific character type?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.0.4.1.1

INDENT: 2

TITLE:

TEXT: Passwords SHOULD NOT have 1 of the following types of characters:

NOTE: Now Selected: [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}

DISPLAY\_WHEN: 2.0.4.0.C

()uppercase letters

()lowercase letters

()letters, but case is not specified

()numbers

()punctuation

()these special characters: [TEXTBOX]{required::required;; invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

()special characters, not specified

()“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

()white space

()“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Select the appropriate character type}

ID: 2.0.4.1.2.1

## .1 A - Uppers

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.A

DISPLAY\_WHERE: 2.0.4.1.1.A

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.1.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.2

## .2 B - Lowers

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.B

DISPLAY\_WHERE: 2.0.4.1.1.B

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.3

## .3 C - Letters

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.C

DISPLAY\_WHERE: 2.0.4.1.1.C

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.3.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.4

## .4 D - Numbers

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.D

DISPLAY\_WHERE: 2.0.4.1.1.D

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.4.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.5

## .5 E - punctuation

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.E

DISPLAY\_WHERE: 2.0.4.1.1.E

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.5.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.6

## .6 F – these specials

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.F

DISPLAY\_WHERE: 2.0.4.1.1.F

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.6.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.7

## .7 G –specials

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.G

DISPLAY\_WHERE: 2.0.4.1.1.G

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.7.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.8

## .8 H –controls

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.H

DISPLAY\_WHERE: 2.0.4.1.1.H

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.8.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.9

## .9 I –whitespace

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.I

DISPLAY\_WHERE: 2.0.4.1.1.I

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.9.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.2.10

## .9 I –whitespace

INDENT: 1

DISPLAY\_WHEN: 2.0.4.1.1.J

DISPLAY\_WHERE: 2.0.4.1.1.J

#TEXT: Passwords SHOULD NOT have the selected character type:

()for all characters.

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}.

BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.10.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

()for 1 or more, but the policy doesn't say how many.<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#############

##ID: 2.0.4.1.2

##INDENT: 1

##DISPLAY\_WHEN: 2.0.4.0.C

##TEXT: Passwords SHOULD NOT have the selected character type:

## ()For all characters

##BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

## ()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

##BNF: Users should not create passwords with [INSERT]{qref::q.2.0.4.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

## ()For 1 or more, but the policy doesn't say how many <p>

##BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.0.4.1.1}[MOD]{q.2.0.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.0.4.1.1.F.a}”, q.2.0.4.1.1.A:: "upper-case letters", q.2.0.4.1.1.B:: "lower-case letters", q.2.0.4.1.1.C:: "letters (unspec)", q.2.0.4.1.1.D:: "numbers", q.2.0.4.1.1.G:: "special characters (unspec)", q.2.0.4.1.1.H:: "control or non-printable characters (unspec)", q.2.0.4.1.1.J:: "all other characters (unspec)", q.2.0.4.1.1.E:: "punctuation", q.2.0.4.1.1.I:: "whitespace"}.

##RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.0.4.1.3

DISPLAY\_WHEN: 2.0.4.0.C

TEXT: Does the policy make another statement recommending that passwords not have characters from a specific character type?

()I can't tell

()No

()Yes

CLONE: q.2.0.4.1.1,q.2.0.4.1.3,q.2.0.4.1.2.1,q.2.0.4.1.2.2,q.2.0.4.1.2.3,q.2.0.4.1.2.4,q.2.0.4.1.2.5,q.2.0.4.1.2.6,q.2.0.4.1.2.7,q.2.0.4.1.2.8,q.2.0.4.1.2.9,q.2.0.4.1.2.10

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Multiple Types of Characters

INSTRUCTIONS: The following questions address the **types of characters** and **number of those characters** that may or may not be used in passwords. More specifically, the policy may have rules relating character selection criteria that pertain to a **combination** of **2 or more** types of characters. <P> Example: *Passwords should be composed of letters and numbers.* <p> This type of rule focuses on a **combination** of character types and is handled in this section.

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

()I can’t tell if this policy addresses using a combination of character types listed above in the creation of passwords.

()The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

#### Multiple Types: Must Use

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords must have characters from a combination of specific types of characters:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Multiple Types - Requirements**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

()I can’t tell if this policy addresses using a combination of character types listed above in the creation of passwords.

()The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

ID: 2.1.0

TITLE: Characters MUSTcomefrom a combination of specific character types

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords must include at least 1 number or special character.** (One rule about choosing from the combination of 2 types of characters: numbers and special characters.)</dd><br><dt>Rule example 2: </dt><dd>**Passwords must consist of letters or numbers.** (One rule about choosing from the combination of 2 types of characters: letters and numbers.)</dd><br><dt>Rule example 3: </dt><dd>**Passwords must include alphanumeric characters.**  (One rule about choosing from the combination of letters and numbers.)</dd></dl></font>

#Training should show combined rules and what to do with them. Eg., Rule example: Passwords must contain alphanumeric and special characters. (Two rules: One rule about the combination of letters and numbers; a second rule about the single character type: special characters .)

TEXT: Does the policy require that passwords have characters from a combination of specific character types?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.1.1.1

TITLE:

INDENT: 2

TEXT: Passwords MUST have characters from a combination of the following types of characters:

NOTE: List of selected items: [INSERT]{qref::q.2.1.1.1}[MOD]{q.2.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.1.1.1.F.a}”, q.2.1.1.1.A:: "upper-case letters", q.2.1.1.1.B:: "lower-case letters", q.2.1.1.1.C:: "letters (unspec)", q.2.1.1.1.D:: "numbers", q.2.1.1.1.G:: "special characters (unspec)", q.2.1.1.1.H:: "control or non-printable characters (unspec)", q.2.1.1.1.J:: "all other characters (unspec)", q.2.1.1.1.E:: "punctuation"}

DISPLAY\_WHEN: 2.1.0.C

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{required::required;; invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]all other characters

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick at least 2;; minlength:: 2}

ID: 2.1.1.2

INDENT: 2

DISPLAY\_WHEN: 2.1.0.C

#consider insert of character types selected for this next question

TEXT: Passwords MUST have characters from a combination of specific character types:

()For all characters

BNF: Users must create passwords with all characters in the set of [INSERT]{qref::q.2.1.1.1}[MOD]{q.2.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.1.1.1.F.a}”, q.2.1.1.1.A:: "upper-case letters", q.2.1.1.1.B:: "lower-case letters", q.2.1.1.1.C:: "letters (unspec)", q.2.1.1.1.D:: "numbers", q.2.1.1.1.G:: "special characters (unspec)", q.2.1.1.1.H:: "control or non-printable characters (unspec)", q.2.1.1.1.J:: "all other characters (unspec)", q.2.1.1.1.E:: "punctuation"}.

()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

BNF: Users must create passwords with [INSERT]{qref::q.2.1.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.1.1.1}[MOD]{q.2.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.1.1.1.F.a}”, q.2.1.1.1.A:: "upper-case letters", q.2.1.1.1.B:: "lower-case letters", q.2.1.1.1.C:: "letters (unspec)", q.2.1.1.1.D:: "numbers", q.2.1.1.1.G:: "special characters (unspec)", q.2.1.1.1.H:: "control or non-printable characters (unspec)", q.2.1.1.1.J:: "all other characters (unspec)", q.2.1.1.1.E:: "punctuation"}.

()For 1 or more, not specified<p>

BNF: Users must create passwords with a character in the set of [INSERT]{qref::q.2.1.1.1}[MOD]{q.2.1.1.1.F:: "these special characters: [INSERT]{qref::q.2.1.1.1.F.a}”, q.2.1.1.1.A:: "upper-case letters", q.2.1.1.1.B:: "lower-case letters", q.2.1.1.1.C:: "letters (unspec)", q.2.1.1.1.D:: "numbers", q.2.1.1.1.G:: "special characters (unspec)", q.2.1.1.1.H:: "control or non-printable characters (unspec)", q.2.1.1.1.J:: "all other characters (unspec)", q.2.1.1.1.E:: "punctuation"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.1.1.3

DISPLAY\_WHEN: 2.1.0.C

TEXT: Does the policy make another statement requiring that passwords have characters from a combination of specific character types?

()I can't tell

()No

()Yes

CLONE: q.2.1.1.1,q.2.1.1.2,q.2.1.1.3

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#### Multiple Types: Should Use

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords should have characters from a combination of specific types of characters:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Multiple types – recommendations**

COMMENT: If you have observations about this topic, let us know.

#INSTRUCTIONS: Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy says to use multiple kinds of characters.

[]The policy repeats information about recommendations for using multiple kinds of characters. (Tell us what information is repeated.) [MEMO]

[]The policy has more information about recommendations on using multiple types of characters than you ask here. (Tell us what we didn't ask about.) [MEMO]

ID: 2.2.0

TITLE: Characters SHOULD come from a combination of specific character types

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords should include at least 1 number or special character.** (One rule about choosing from the combination of 2 types of characters: numbers and special characters.)</dd><br><dt>Rule example 2: </dt><dd>**Passwords should consist of letters or numbers.** (One rule about choosing from the combination of 2 types of characters: letters and numbers.)</dd><br><dt>Rule example 3: </dt><dd>**Passwords should include alphanumeric characters.**  (One rule about choosing from the combination of letters and numbers.)</dd><dl></font>

TEXT: Does the policy recommend that passwords have characters from a combination of specific character types?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.2.1.1

INDENT: 2

TITLE:

TEXT: Passwords SHOULD have characters from a combination of the following types of characters:

NOTE: Now Selected: [INSERT]{qref::q.2.2.1.1}[MOD]{q.2.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.2.1.1.F.a}”, q.2.2.1.1.A:: "upper-case letters", q.2.2.1.1.B:: "lower-case letters", q.2.2.1.1.C:: "letters (unspec)", q.2.2.1.1.D:: "numbers", q.2.2.1.1.G:: "special characters (unspec)", q.2.2.1.1.H:: "control or non-printable characters (unspec)", q.2.2.1.1.J:: "all other characters (unspec)", q.2.2.1.1.E:: "punctuation"}

DISPLAY\_WHEN: 2.2.0.C

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{required::required; invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick at least 2;; minlength:: 2}

ID: 2.2.1.2

INDENT: 2

DISPLAY\_WHEN: 2.2.0.C

TEXT: Passwords SHOULD have characters from a combination of specific character types:

()For all characters

BNF: Users should create passwords with all characters in the set [INSERT]{qref::q.2.2.1.1}[MOD]{q.2.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.2.1.1.F.a}”, q.2.2.1.1.A:: "upper-case letters", q.2.2.1.1.B:: "lower-case letters", q.2.2.1.1.C:: "letters (unspec)", q.2.2.1.1.D:: "numbers", q.2.2.1.1.G:: "special characters (unspec)", q.2.2.1.1.H:: "control or non-printable characters (unspec)", q.2.2.1.1.J:: "all other characters (unspec)", q.2.2.1.1.E:: "punctuation"}.

()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

BNF: Users should create passwords with [INSERT]{qref::q.2.2.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.2.1.1}[MOD]{q.2.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.2.1.1.F.a}”, q.2.2.1.1.A:: "upper-case letters", q.2.2.1.1.B:: "lower-case letters", q.2.2.1.1.C:: "letters (unspec)", q.2.2.1.1.D:: "numbers", q.2.2.1.1.G:: "special characters (unspec)", q.2.2.1.1.H:: "control or non-printable characters (unspec)", q.2.2.1.1.J:: "all other characters (unspec)", q.2.2.1.1.E:: "punctuation"}.

()For 1 or more, not specified<p>

BNF: Users should create passwords with a character in the set of [INSERT]{qref::q.2.2.1.1}[MOD]{q.2.2.1.1.F:: "these special characters: [INSERT]{qref::q.2.2.1.1.F.a}”, q.2.2.1.1.A:: "upper-case letters", q.2.2.1.1.B:: "lower-case letters", q.2.2.1.1.C:: "letters (unspec)", q.2.2.1.1.D:: "numbers", q.2.2.1.1.G:: "special characters (unspec)", q.2.2.1.1.H:: "control or non-printable characters (unspec)", q.2.2.1.1.J:: "all other characters (unspec)", q.2.2.1.1.E:: "punctuation"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.2.1.3

DISPLAY\_WHEN: 2.2.0.C

TEXT: Does the policy make another statement recommending that passwords have characters from a combination of specific character types?

()I can't tell

()No

()Yes

CLONE: q.2.2.1.1,q.2.2.1.2,q.2.2.1.3

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#### Multiple Types: Must Not Use

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords must not have characters from a combination of specific types of characters:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Prohibitions – Multi**

COMMENT: If you have observations about this topic, let us know.

#INSTRUCTIONS: Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy says to use multiple kinds of characters.

[]The policy repeats information about prohibitions for using multiple kinds of characters. (Tell us what information is repeated.) [MEMO]

[]The policy has more information about prohibitions on using multiple types of characters than you ask here. (Tell us what we didn't ask about.) [MEMO]

ID: 2.3.0

TITLE: Characters MUST NOT come from a combination of specific character types

INSTRUCTIONS: <p><dl><font color=”gray”><dt>Rule example: </dt><dd>**Passwords cannot contain special characters AND white space.** (One rule about excluding characters from the combination of 2 types: special characters and white space.)</dd></dl></font>

TEXT: Does the policy prohibit passwords from having characters from a combination of specific character types?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.3.1.1

INDENT: 2

TEXT: Passwords MUST NOT have characters from a combination of the following types of characters:

NOTE: Now selected: [INSERT]{qref::q.2.3.1.1}[MOD]{q.2.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.3.1.1.F.a}”, q.2.3.1.1.A::"upper-case letters", q.2.3.1.1.B:: "lower-case letters", q.2.3.1.1.C:: "letters (unspec)", q.2.3.1.1.D:: "numbers", q.2.3.1.1.G:: "special characters (unspec)", q.2.3.1.1.H:: "control or non-printable characters (unspec)", q.2.3.1.1.J:: "all other characters (unspec)", q.2.3.1.1.E:: "punctuation"}

DISPLAY\_WHEN: 2.3.0.C

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick at least 2;; minlength:: 2}

ID: 2.3.1.2

INDENT: 2

DISPLAY\_WHEN: 2.3.0.C

TEXT: Passwords MUST NOT have characters from a combination of specific character types:

()For all characters

BNF: Users must not create passwords with all characters in the set of [INSERT]{qref::q.2.3.1.1}[MOD]{q.2.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.3.1.1.F.a}”, q.2.3.1.1.A::"upper-case letters", q.2.3.1.1.B:: "lower-case letters", q.2.3.1.1.C:: "letters (unspec)", q.2.3.1.1.D:: "numbers", q.2.3.1.1.G:: "special characters (unspec)", q.2.3.1.1.H:: "control or non-printable characters (unspec)", q.2.3.1.1.J:: "all other characters (unspec)", q.2.3.1.1.E:: "punctuation"}.

()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

BNF: Users must not create passwords with [INSERT]{qref::q.2.3.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.3.1.1}[MOD]{q.2.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.3.1.1.F.a}”, q.2.3.1.1.A::"upper-case letters", q.2.3.1.1.B:: "lower-case letters", q.2.3.1.1.C:: "letters (unspec)", q.2.3.1.1.D:: "numbers", q.2.3.1.1.G:: "special characters (unspec)", q.2.3.1.1.H:: "control or non-printable characters (unspec)", q.2.3.1.1.J:: "all other characters (unspec)", q.2.3.1.1.E:: "punctuation"}.

()For 1 or more, not specified<p>

BNF: Users must not create passwords with a character in the set of [INSERT]{qref::q.2.3.1.1}[MOD]{q.2.3.1.1.F:: "these special characters: [INSERT]{qref::q.2.3.1.1.F.a}”, q.2.3.1.1.A::"upper-case letters", q.2.3.1.1.B:: "lower-case letters", q.2.3.1.1.C:: "letters (unspec)", q.2.3.1.1.D:: "numbers", q.2.3.1.1.G:: "special characters (unspec)", q.2.3.1.1.H:: "control or non-printable characters (unspec)", q.2.3.1.1.J:: "all other characters (unspec)", q.2.3.1.1.E:: "punctuation"}.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.3.1.3

DISPLAY\_WHEN: 2.3.0.C

TEXT: Does the policy make another statement prohibiting passwords from having characters from a combination of specific character types?

()I can't tell

()No

()Yes

CLONE: q.2.3.1.1,q.2.3.1.2,q.2.3.1.3

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#### Multiple Types: Should Not Use

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions that passwords should not have characters from a combination of types of characters:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Recommendations Against – Multi**

COMMENT: If you have observations about this topic, let us know.

#INSTRUCTIONS: Comments for topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy says to use multiple kinds of characters.

[]The policy repeats information about recommendations against using multiple kinds of characters. (Tell us what information is repeated.) [MEMO]

[]The policy has more information about recommendations against using multiple types of characters than you ask here. (Tell us what we didn't ask about.) [MEMO]

ID: 2.4.0

TITLE: Characters SHOULD NOT come from a combination of specific character types

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords should not contain punctuation AND numbers.** (One rule about excluding characters from the combination of 2 types: punctuation and numbers.)</dd></dl></font>

TEXT: Does the policy recommend that passwords not have characters from a combination of specific character types?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.4.1.1

INDENT: 2

TITLE:

TEXT: Passwords SHOULD NOT have characters from a combination of the following types of characters:

NOTE: Now selected: [INSERT]{qref::q.2.4.1.1}[MOD]{q.2.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.4.1.1.F.a}”, q.2.4.1.1.A:: "upper-case letters", q.2.4.1.1.B:: "lower-case letters", q.2.4.1.1.C:: "letters (unspec)", q.2.4.1.1.D:: "numbers", q.2.4.1.1.G:: "special characters (unspec)", q.2.4.1.1.H:: "control or non-printable characters (unspec)", q.2.4.1.1.J:: "all other characters (unspec)", q.2.4.1.1.E:: "punctuation"}

DISPLAY\_WHEN: 2.4.0.C

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick at least 2;; minlength:: 2}

ID: 2.4.1.2

INDENT: 2

DISPLAY\_WHEN: 2.4.0.C

TEXT: Passwords SHOULD NOT have characters from a combination of specific character types:

()For all characters

BNF: Users should not create passwords with all characters in the set of [INSERT]{qref::q.2.4.1.1}[MOD]{q.2.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.4.1.1.F.a}”, q.2.4.1.1.A:: "upper-case letters", q.2.4.1.1.B:: "lower-case letters", q.2.4.1.1.C:: "letters (unspec)", q.2.4.1.1.D:: "numbers", q.2.4.1.1.G:: "special characters (unspec)", q.2.4.1.1.H:: "control or non-printable characters (unspec)", q.2.4.1.1.J:: "all other characters (unspec)", q.2.4.1.1.E:: "punctuation"}.

()For at least this specific number: [NUMERICAL]{min::1;; invalid\_text:: How many?}

BNF: Users should not create passwords with [INSERT]{qref::q.2.4.1.2.B.a} or more characters in the set of [INSERT]{qref::q.2.4.1.1}[MOD]{q.2.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.4.1.1.F.a}”, q.2.4.1.1.A:: "upper-case letters", q.2.4.1.1.B:: "lower-case letters", q.2.4.1.1.C:: "letters (unspec)", q.2.4.1.1.D:: "numbers", q.2.4.1.1.G:: "special characters (unspec)", q.2.4.1.1.H:: "control or non-printable characters (unspec)", q.2.4.1.1.J:: "all other characters (unspec)", q.2.4.1.1.E:: "punctuation"}.

()For 1 or more, not specified<p>

BNF: Users should not create passwords with a character in the set of [INSERT]{qref::q.2.4.1.1}[MOD]{q.2.4.1.1.F:: "these special characters: [INSERT]{qref::q.2.4.1.1.F.a}”, q.2.4.1.1.A:: "upper-case letters", q.2.4.1.1.B:: "lower-case letters", q.2.4.1.1.C:: "letters (unspec)", q.2.4.1.1.D:: "numbers", q.2.4.1.1.G:: "special characters (unspec)", q.2.4.1.1.H:: "control or non-printable characters (unspec)", q.2.4.1.1.J:: "all other characters (unspec)", q.2.4.1.1.E:: "punctuation"}.

ID: 2.4.1.3

DISPLAY\_WHEN: 2.4.0.C

TEXT: Does the policy make another statement recommending that passwords not have a combination of specific character types?

()I can't tell

()No

()Yes

CLONE: q.2.4.1.1,q.2.4.1.2,q.2.4.1.3

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### “At least X” Character Types

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions passwords having a minimum number of character types:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Minimum Number**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses using characters from at least a certain group of character types.

[]There are 1 or more duplicative policy statements for this topic in the policy. describe all that apply. [MEMO]

[]There are 1 or more different statements relevant to this topic in the policy. describe all that apply. [MEMO]

[]The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

ID: 2.13

TITLE:

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must include characters from at least 3 of the following: uppercase, lowercase, numbers and special characters.**</dd></dl></font>

TEXT: Does the policy mention passwords having “at least” some number of different character types?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.13.1

# logic: is this the right set of character types?, consider removing illogical ones

INDENT: 1

DISPLAY\_WHEN: 2.13.C

()Passwords MUST include characters from at least [NUMERICAL]{lt::q.2.13.1.1;; min::1;; invalid\_text:: Must be at least “1” but less than the number of character types selected} of the following character types:

()Passwords SHOULD include characters from at least [NUMERICAL]{lt::q.2.13.1.2;; min::1;; invalid\_text:: Must be at least “1” but less than the number of character types selected} of the following character types:

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.13.1.1

INDENT: 1

DISPLAY\_WHEN: 2.13.1.A

DISPLAY\_WHERE: 2.13.1.A

NOTE: Mod check: with characters from [INSERT]{qref::q.2.13.1.A.a} of these [INSERT]{qref::q.2.13.1.1;; count::true} sets: [INSERT]{qref::q.2.13.1.1}[MOD]{q.2.13.1.1.F:: "these special characters: [INSERT]{qref::q.2.13.1.1.F.a}", q.2.13.1.1.A::"upper-case letters", q.2.13.1.1.B:: "lower-case letters", q.2.13.1.1.C:: "letters (unspec)", q.2.13.1.1.D:: "numbers", q.2.13.1.1.G:: "special characters (unspec)", q.2.13.1.1.H:: "control or non-printable characters (unspec)", q.2.13.1.1.J:: "all other characters (unspec)", q.2.13.1.1.E:: "punctuation"}.

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password

RESPONSE\_VALIDATION: {gt:: q.2.13.1.A.a;;required::required;; invalid\_text:: Select the appropriate character types; must be larger than the specified minimum number}

RESPONSE\_BNF: Users must create passwords in the set of strings with characters from [INSERT]{qref::q.2.13.1.A.a} of these [INSERT]{qref::q.2.13.1.1;; count::true} sets: [INSERT]{qref::q.2.13.1.1}[MOD]{q.2.13.1.1.F:: "these special characters: [INSERT]{qref::q.2.13.1.1.F.a}", q.2.13.1.1.A::"upper-case letters", q.2.13.1.1.B:: "lower-case letters", q.2.13.1.1.C:: "letters (unspec)", q.2.13.1.1.D:: "numbers", q.2.13.1.1.G:: "special characters (unspec)", q.2.13.1.1.H:: "control or non-printable characters (unspec)", q.2.13.1.1.J:: "all other characters (unspec)", q.2.13.1.1.E:: "punctuation"}.

ID: 2.13.1.2

INDENT: 1

DISPLAY\_WHEN: 2.13.1.B

DISPLAY\_WHERE: 2.13.1.B

NOTE: Does this have the right stuff displayed? <br>Mod check: with characters from [INSERT]{qref::q.2.13.1.B.a} of these [INSERT]{qref::q.2.13.1.2;; count::true} sets: [INSERT]{qref::q.2.13.1.2}[MOD]{ q.2.13.1.2.F:: "these special characters: [INSERT]{qref::q.2.13.1.2.F.a}",q.2.13.1.2.A::"upper-case letters", q.2.13.1.2.B::"lower-case letters", q.2.13.1.2.C::"letters (unspec)", q.2.13.1.2.D::"numbers", q.2.13.1.2.G:: "special characters (unspec)", q.2.13.1.2.H::"control or non-printable characters (unspec)", q.2.13.1.2.J::"all other characters (unspec)", q.2.13.1.2.E:: "punctuation"}.

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Select the appropriate character types}

RESPONSE\_BNF: Users should create passwords in the set of strings with characters from [INSERT]{qref::q.2.13.1.B.a} of these [INSERT]{qref::q.2.13.1.2;; count::true} sets: [INSERT]{qref::q.2.13.1.2}[MOD]{ q.2.13.1.2.F:: "these special characters: [INSERT]{qref::q.2.13.1.2.F.a}",q.2.13.1.2.A::"upper-case letters", q.2.13.1.2.B::"lower-case letters", q.2.13.1.2.C::"letters (unspec)", q.2.13.1.2.D::"numbers", q.2.13.1.2.G:: "special characters (unspec)", q.2.13.1.2.H::"control or non-printable characters (unspec)", q.2.13.1.2.J::"all other characters (unspec)", q.2.13.1.2.E:: "punctuation"}.

#fix string insert – jive with previous-remove illogical sets

### From the Previous Password

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions characters used in the previous password:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**In the Previous Password**

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions characters used in the previous password:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.14

#TITLE: Characters from the previous password

TEXT: Does the policy mention limiting or including characters from the previous password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.14.1

TITLE: Limit

INDENT: 1

#INSTRUCTIONS: <p>*Pick the option that most closely mirrors the wording in the policy:*<p>

TEXT: Does the policy mention limiting the use of characters from the previous password?

DISPLAY\_WHEN: 2.14.C

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.14.1.1

DISPLAY\_WHEN: 2.14.1.C

INDENT: 2

()Passwords MUST NOT include ANYcharacters used in the previous password.

BNF: Users must not create passwords with a character in the set of those used in the previous password.

()Passwords SHOULD NOT include ANYcharacters used in the previous password.<p>

BNF: Users should not create passwords with a character in the set of those used in the previous password.

()Passwords MUST NOT include [NUMERICAL]{min::1;; invalid\_text:: Minimum number must be at least “1”} or more characters used in the previous password.

BNF: Users must not create passwords with [INSERT]{qref::q.2.14.1.1.C.a} or more characters in the set of those used in the previous password.

()Passwords SHOULD NOTinclude [NUMERICAL]{min::1;; invalid\_text:: Minimum number must be at least “1”} or more characters used in the previous password. <p>

BNF: Users should not create passwords with [INSERT]{qref::q.2.14.1.1.D.a} or more characters in the set of those used in the previous password.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.14.2

INDENT: 1

TITLE: Include

TEXT: Does the policy mention including characters *not used* in the previous password?

DISPLAY\_WHEN: 2.14.C

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.14.2.1

INDENT: 2

DISPLAY\_WHEN: 2.14.2.C

()Passwords MUSTinclude ONLYcharacters not usedin the previous password.

BNF: Users must create passwords with all characters in the set of those not used in the previous password.

()Passwords SHOULDinclude ONLYcharacters not used in the previous password.<p>

BNF: Users should create passwords with all characters in the set of those not used in the previous password.

()Passwords MUSTinclude [NUMERICAL]{min::1;; invalid\_text:: Minimum number must be at least “1”} or more characters not used in the previous password.

BNF: Users must create passwords with [INSERT]{qref::q.2.14.2.1.C.a} or more characters in the set of those not used in the previous password.

()Passwords SHOULDinclude [NUMERICAL]{min::1;; invalid\_text:: Minimum number must be at least “1”} or more characters not used in the previous password.

BNF: Users should create passwords with [INSERT]{qref::q.2.14.2.1.D.a} or more characters in the set of those not used in the previous password.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Character Positions: First, Last, etc.

INSTRUCTIONS: <![CDATA[ The policy may address the use of specific characters</p><ul><li>as the **first or last character** of a password;</li><li>in the **middle** of a password (any position between the first and last characters); or</li><li>**near the beginning** of a password (i.e., within the first N characters).</li></ul><p>The following questions will ask about each of these. ]]>

COMMENT: About this topic, tell us if:

[:You can't tell if this policy mentions using characters from the previous password:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

#### First or Last Character

INSTRUCTIONS: <dl><font color=”gray”><dt>Rule example: </dt>**Passwords cannot begin or end with punctuation.**</dd></dl><p></font>

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using characters as the first or last character:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**First or Last**

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using characters as the first or last character:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.16

#TITLE: First or last character

TEXT: Does the policy mention using character types as the first or last character?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes<p>

ID: 2.16.3

TITLE: Must

INDENT: 1

TEXT: Must passwords use specific character types as the first or last character?

DISPLAY\_WHEN: 2.16.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.16.3.1

INDENT: 2

DISPLAY\_WHEN: 2.16.3.C

NOTE: Check all that apply: <br> Mods: with a first or last character in the set of [INSERT]{qref::q.2.16.3.1}[MOD]{q.2.16.3.1.F::"these special characters: [INSERT]{qref::q.2.16.3.1.F.a}", q.2.16.3.1.A::"upper-case letters", q.2.16.3.1.B::"lower-case letters", q.2.16.3.1.C::"letters (unspec)", q.2.16.3.1.D::"numbers", q.2.16.3.1.G:: "special characters (unspec)", q.2.16.3.1.H::"control or non-printable characters (unspec)", q.2.16.3.1.J::"all other characters (unspec)", q.2.16.3.1.E:: "punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users must create passwords with a first or last character in the set of [INSERT]{qref::q.2.16.3.1}[MOD]{q.2.16.3.1.F::"these special characters: [INSERT]{qref::q.2.16.3.1.F.a}", q.2.16.3.1.A::"upper-case letters", q.2.16.3.1.B::"lower-case letters", q.2.16.3.1.C::"letters (unspec)", q.2.16.3.1.D::"numbers", q.2.16.3.1.G:: "special characters (unspec)", q.2.16.3.1.H::"control or non-printable characters (unspec)", q.2.16.3.1.J::"all other characters (unspec)", q.2.16.3.1.E:: "punctuation"}.

ID: 2.16.4

TITLE: Should

INDENT: 1

TEXT: Should passwords use specific character types as the first or last character?

DISPLAY\_WHEN: 2.16.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.16.4.1

INDENT: 2

DISPLAY\_WHEN: 2.16.4.C

#[MOD][test validation]

NOTE: Check all that apply: <br>Mods: with a first or last character in the set of [INSERT]{qref::q.2.16.4.1}[MOD]{q.2.16.4.1.F:: "these special characters: [INSERT]{qref::q.2.16.4.1.F.a}", q.2.16.4.1.A::"upper-case letters", q.2.16.4.1.B::"lower-case letters", q.2.16.4.1.C::"letters (unspec)", q.2.16.4.1.D::"numbers", q.2.16.4.1.E:: "punctuation", q.2.16.4.1.G:: "special characters (unspec)", q.2.16.4.1.H::"control or non-printable characters (unspec)", q.2.16.4.1.J::"all other characters (unspec)", q.2.16.4.1.E:: "punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter specified characters only, no spaces}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

#[]these special characters: [TEXTBOX]{pattern:: (?:([^A-Za-z0-9/s])(?!.\*\1))\*$;; invalid\_text:: Enter the specified special characters (only), no spaces}

#example: ^(?:([A-Za-z])(?!.\*\1))\*$ was: ([^A-Za-z0-9]\*)[\\1](file:///\\1) (not catching repeating) \*\*\*\*\*\*\*\*\*\* (?:([^A-Za-z0-9])(?!.\*\1))\*$ (simple: [^A-Za-z0-9]\*

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users should create passwords with a first or last character in the set of [INSERT]{qref::q.2.16.4.1}[MOD]{q.2.16.4.1.F::"these special characters: [INSERT]{qref::q.2.16.4.1.F.a}", q.2.16.4.1.A::"upper-case letters", q.2.16.4.1.B::"lower-case letters", q.2.16.4.1.C::"letters (unspec)", q.2.16.4.1.D::"numbers", q.2.16.4.1.E:: "punctuation", q.2.16.4.1.G:: "special characters (unspec)", q.2.16.4.1.H::"control or non-printable characters (unspec)", q.2.16.4.1.J::"all other characters (unspec)", q.2.16.4.1.E:: "punctuation"}.

ID: 2.16.1

TITLE: Must not

INDENT: 1

TEXT: Must passwords not use specific character types as the first or last character?

DISPLAY\_WHEN: 2.16.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.16.1.1

INDENT: 2

DISPLAY\_WHEN: 2.16.1.C

NOTE: Check all that apply: <br> Mods: with a first or last character in the set of [INSERT]{qref::q.2.16.1.1}[MOD]{q.2.16.1.1.F::"these special characters: [INSERT]{qref::q.2.16.1.1.F.a}", q.2.16.1.1.A:: "upper-case letters", q.2.16.1.1.B::"lower-case letters", q.2.16.1.1.C::"letters (unspec)", q.2.16.1.1.D::"numbers", q.2.16.1.1.G:: "special characters (unspec)", q.2.16.1.1.H::"control or non-printable characters (unspec)", q.2.16.1.1.J::"all other characters (unspec)", q.2.16.1.1.E:: "punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users must not create passwords with a first or last character in the set of [INSERT]{qref::q.2.16.1.1}[MOD]{q.2.16.1.1.F::"these special characters: [INSERT]{qref::q.2.16.1.1.F.a}", q.2.16.1.1.A:: "upper-case letters", q.2.16.1.1.B::"lower-case letters", q.2.16.1.1.C::"letters (unspec)", q.2.16.1.1.D::"numbers", q.2.16.1.1.G:: "special characters (unspec)", q.2.16.1.1.H::"control or non-printable characters (unspec)", q.2.16.1.1.J::"all other characters (unspec)", q.2.16.1.1.E:: "punctuation"}.

ID: 2.16.2

TITLE: Should not

INDENT: 1

TEXT: Should passwords not use specific character types as the first or last character?

DISPLAY\_WHEN: 2.16.C

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

()Yes

ID: 2.16.2.1

INDENT: 2

DISPLAY\_WHEN: 2.16.2.C

NOTE: Check all that apply: <br> Mods: with a first or last character in the set of [INSERT]{qref::q.2.16.2.1}[MOD]{ q.2.16.2.1.F::"special characters: [INSERT]{qref::q.2.16.2.1.F.a}", q.2.16.2.1.A::"upper-case letters", q.2.16.2.1.B::"lower-case letters", q.2.16.2.1.C::"letters (unspec)", q.2.16.2.1.D::"numbers", q.2.16.2.1.G:: "special characters (unspec)", q.2.16.2.1.H::"control or non-printable characters (unspec)", q.2.16.2.1.J::"all other characters (unspec)", q.2.16.2.1.E:: "punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those used in the previous password

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users should not create passwords with a first or last character in the set of [INSERT]{qref::q.2.16.2.1}[MOD]{ q.2.16.2.1.F::"special characters: [INSERT]{qref::q.2.16.2.1.F.a}", q.2.16.2.1.A::"upper-case letters", q.2.16.2.1.B::"lower-case letters", q.2.16.2.1.C::"letters (unspec)", q.2.16.2.1.D::"numbers", q.2.16.2.1.G:: "special characters (unspec)", q.2.16.2.1.H::"control or non-printable characters (unspec)", q.2.16.2.1.J::"all other characters (unspec)", q.2.16.2.1.E:: "punctuation"}.

#### Internal Characters

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords must include uppercase letters between the first and last characters.** </dd><br><dt>Rule example 2: </dt><dd>**Embed numbers somewhere in the password.**</dd></dl> </font><p>

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using characters between the first and last characters:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Internal**

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example 1: </dt><dd>**Passwords must include uppercase letters between the first and last characters.**</dd> <br><dt>Rule example 2: </dt><dd>**Embed numbers somewhere in the password.** </dd></dl></font><p>

COMMENT: About this topic, tell us if:

[:You can't tell if this policy mentions using characters between the first and last characters:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.17

TITLE: Internal characters

TEXT: Does the policy mention using character types between the first and last characters?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes<p>

ID: 2.17.3

TITLE: Must

INDENT: 1

TEXT: Must passwords use specific character types between the first and last characters?

DISPLAY\_WHEN: 2.17.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.17.3.1

DISPLAY\_WHEN: 2.17.3.C

INDENT: 2

NOTE: Check all that apply: <br> Mods: with an internal character in the set of [INSERT]{qref::q.2.17.3.1}[MOD]{ q.2.17.3.1.F::"these special characters: [INSERT]{qref::q.2.17.3.1.F.a}", q.2.17.3.1.A::"upper-case letters", q.2.17.3.1.B::"lower-case letters", q.2.17.3.1.C::"letters (unspec)", q.2.17.3.1.D::"numbers", q.2.17.3.1.G:: "special characters (unspec)", q.2.17.3.1.H::"control or non-printable characters (unspec)", q.2.17.3.1.J::"all other characters (unspec)", q.2.17.3.1.E:: "punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users must create passwords with an internal character in the set of [INSERT]{qref::q.2.17.3.1}[MOD]{ q.2.17.3.1.F::"these special characters: [INSERT]{qref::q.2.17.3.1.F.a}", q.2.17.3.1.A::"upper-case letters", q.2.17.3.1.B::"lower-case letters", q.2.17.3.1.C::"letters (unspec)", q.2.17.3.1.D::"numbers", q.2.17.3.1.G:: "special characters (unspec)", q.2.17.3.1.H::"control or non-printable characters (unspec)", q.2.17.3.1.J::"all other characters (unspec)", q.2.17.3.1.E:: "punctuation"}.

ID: 2.17.4

TITLE: Should

INDENT: 1

TEXT: Should passwords use specific character types between the first and last characters?

DISPLAY\_WHEN: 2.17.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.17.4.1

DISPLAY\_WHEN: 2.17.4.C

INDENT: 2

NOTE: Check all that apply: <br> Mods: with an internal character in the set of [INSERT]{qref::q.2.17.4.1}[MOD]{ q.2.17.4.1.F:: "these special characters: [INSERT]{qref::q.2.17.4.1.F.a}", q.2.17.4.1.A::"upper-case letters", q.2.17.4.1.B::"lower-case letters", q.2.17.4.1.C::"letters (unspec)", q.2.17.4.1.D::"numbers", q.2.17.4.1.G::"special characters (unspec)", q.2.17.4.1.H::"control or non-printable characters (unspec)", q.2.17.4.1.J::"all other characters (unspec)", q.2.17.4.1.E::"punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users should create passwords with an internal character in the set of [INSERT]{qref::q.2.17.4.1}[MOD]{ q.2.17.4.1.F:: "these special characters: [INSERT]{qref::q.2.17.4.1.F.a}", q.2.17.4.1.A::"upper-case letters", q.2.17.4.1.B::"lower-case letters", q.2.17.4.1.C::"letters (unspec)", q.2.17.4.1.D::"numbers", q.2.17.4.1.G::"special characters (unspec)", q.2.17.4.1.H::"control or non-printable characters (unspec)", q.2.17.4.1.J::"all other characters (unspec)", q.2.17.4.1.E::"punctuation"}.

ID: 2.17.1

TITLE: Must not

INDENT: 1

TEXT: Must passwords not use specific character types between the first and last characters?

DISPLAY\_WHEN: 2.17.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.17.1.1

DISPLAY\_WHEN: 2.17.1.C

INDENT: 2

NOTE: Check all that apply: <br> Mods: with an internal character in the set of [INSERT]{qref::q.2.17.1.1}[MOD]{ q.2.17.1.1.F::"these special characters: [INSERT]{qref::q.2.17.1.1.F.a}", q.2.17.1.1.A::"upper-case letters", q.2.17.1.1.B::"lower-case letters", q.2.17.1.1.C::"letters (unspec)", q.2.17.1.1.D::"numbers", q.2.17.1.1.G::"special characters (unspec)", q.2.17.1.1.H::"control or non-printable characters (unspec)", q.2.17.1.1.J::"all other characters (unspec)", q.2.17.1.1.E::"punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users must not create passwords with an internal character in the set of [INSERT]{qref::q.2.17.1.1}[MOD]{ q.2.17.1.1.F::"these special characters: [INSERT]{qref::q.2.17.1.1.F.a}", q.2.17.1.1.A::"upper-case letters", q.2.17.1.1.B::"lower-case letters", q.2.17.1.1.C::"letters (unspec)", q.2.17.1.1.D::"numbers", q.2.17.1.1.G::"special characters (unspec)", q.2.17.1.1.H::"control or non-printable characters (unspec)", q.2.17.1.1.J::"all other characters (unspec)", q.2.17.1.1.E::"punctuation"}.

ID: 2.17.2

TITLE: Should not

INDENT: 1

TEXT: Should passwords not use specific character types between the first and last characters?

DISPLAY\_WHEN: 2.17.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.17.2.1

DISPLAY\_WHEN: 2.17.2.C

INDENT: 2

NOTE: Check all that apply: <br>Mods: with an internal character in the set of [INSERT]{qref::q.2.17.2.1}[MOD]{ q.2.17.2.1.F::"these special characters: [INSERT]{qref::1.2.17.2.1.F.a}", q.2.17.2.1.A::"upper-case letters", q.2.17.2.1.B::"lower-case letters", q.2.17.2.1.C::"letters (unspec)", q.2.17.2.1.D::"numbers", q.2.17.2.1.G::"special characters (unspec)", q.2.17.2.1.H::"control or non-printable characters (unspec)", q.2.17.2.1.J::"all other characters (unspec)", q.2.17.2.1.E::"punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users should not create passwords with an internal character in the set of [INSERT]{qref::q.2.17.2.1}[MOD]{ q.2.17.2.1.F::"these special characters: [INSERT]{qref::1.2.17.2.1.F.a}", q.2.17.2.1.A::"upper-case letters", q.2.17.2.1.B::"lower-case letters", q.2.17.2.1.C::"letters (unspec)", q.2.17.2.1.D::"numbers", q.2.17.2.1.G::"special characters (unspec)", q.2.17.2.1.H::"control or non-printable characters (unspec)", q.2.17.2.1.J::"all other characters (unspec)", q.2.17.2.1.E::"punctuation"}.

#### Near the Beginning

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example: </dt><dd>**Passwords must include a number within the first 5 characters.** </dd></dl></font><font color=”gray”><p>Hint: If a policy specifically mentions the very first character of a password, go to the “First or Last Character” topic. </font><p> If a policy specifically mentions the very first character of a password, go to the <b> <a href=”#” onclick=”follow\_link\_with\_next\_questionnaire(’/First%20or%20Last%20Character’)”>No Space</a></b> topic. </font><p style=”font-size: 250%;”> If a policy specifically mentions the very first character of a password, go to the <b> <a href=”#” onclick=”follow\_link\_with\_next\_questionnaire(’/ First%20or%20Last%20Character’)”>With Space</a></b> topic. </font><p style=”font-size: 250%;”>

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using characters near the beginning:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**At the Beginning**

INSTRUCTIONS: Example: “Passwords must include a number within the first 5 characters.” <br> If a statement specifically refers to the very first character of a password, respond using the **“First or Last Character”** topic. <p>

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses using particular types of characters near the beginning of a password.

[]There are 1 or more duplicative policy statements for this topic in the policy. describe all that apply. [MEMO]

[]There are 1 or more different statements relevant to this topic in the policy. describe all that apply. [MEMO]

[]The choices above don’t let me identify what’s in the policy. (explain): [MEMO]

ID: 2.18

TEXT: Does the policy mention using character types near the beginning?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes<p>

ID: 2.18.3

TITLE: Must

INDENT: 1

TEXT: Must passwords use specific character types near the beginning?

DISPLAY\_WHEN: 2.18.C

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

()Yes

ID: 2.18.3.2

INDENT: 2

DISPLAY\_WHEN: 2.18.3.C

This applies to [NUMERICAL]{min::2;; invalid\_text:: How many?} characters near the beginning of a password.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.18.3.1

INDENT: 1

DISPLAY\_WHEN: 2.18.3.C

NOTE: Check all that apply: <br>Mods: with a character in the first [INSERT]{qref::q.2.18.3.2.a} characters in the set of [INSERT]{qref::q.2.18.3.1}[MOD]{ q.2.18.3.1.F::"these special charactes: [INSERT]{qref::q.2.18.3.1.F.a}", q.2.18.3.1.A::"upper-case letters", q.2.18.3.1.B::"lower-case letters", q.2.18.3.1.C::"letters (unspec)", q.2.18.3.1.D::"numbers", q.2.18.3.1.G::"special characters (unspec)", q.2.18.3.1.H::"control or non-printable characters (unspec)", q.2.18.3.1.J::"all other characters (unspec)", q.2.18.3.1.E::"punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users must create passwords with a character in the first [INSERT]{qref::q.2.18.3.2.a} characters in the set of [INSERT]{qref::q.2.18.3.1}[MOD]{ q.2.18.3.1.F::"these special charactes: [INSERT]{qref::q.2.18.3.1.F.a}", q.2.18.3.1.A::"upper-case letters", q.2.18.3.1.B::"lower-case letters", q.2.18.3.1.C::"letters (unspec)", q.2.18.3.1.D::"numbers", q.2.18.3.1.G::"special characters (unspec)", q.2.18.3.1.H::"control or non-printable characters (unspec)", q.2.18.3.1.J::"all other characters (unspec)", q.2.18.3.1.E::"punctuation"}.

ID: 2.18.4

TITLE: Should

INDENT: 1

TEXT: Should passwords use specific character types near the beginning?

DISPLAY\_WHEN: 2.18.C

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

()Yes

ID: 2.18.4.2

INDENT: 2

DISPLAY\_WHEN: 2.18.4.C

This applies to [NUMERICAL]{min::2;; invalid\_text:: How many?} characters near the beginning of a password.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.18.4.1

DISPLAY\_WHEN: 2.18.4.C

INDENT: 1

NOTE: Check all that apply: <br>Mods: with a character in the first [INSERT]{qref::q.2.18.4.2.a} characters in the set of [INSERT]{qref::q.2.18.4.1}[MOD]{q.2.18.4.1.F::"these special characters: [INSERT]{qref::q.2.18.4.1.F.a}", q.2.18.4.1.A::"upper-case letters", q.2.18.4.1.B::"lower-case letters", q.2.18.4.1.C::"letters (unspec)", q.2.18.4.1.D::"numbers", q.2.18.4.1.G:: "special characters (unspec)", q.2.18.4.1.H::"control or non-printable characters (unspec)", q.2.18.4.1.J::"all other characters (unspec)", q.2.18.4.1.E:: "punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those not used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users should create passwords with a character in the first [INSERT]{qref::q.2.18.4.2.a} characters in the set of [INSERT]{qref::q.2.18.4.1}[MOD]{q.2.18.4.1.F::"these special characters: [INSERT]{qref::q.2.18.4.1.F.a}", q.2.18.4.1.A::"upper-case letters", q.2.18.4.1.B::"lower-case letters", q.2.18.4.1.C::"letters (unspec)", q.2.18.4.1.D::"numbers", q.2.18.4.1.G:: "special characters (unspec)", q.2.18.4.1.H::"control or non-printable characters (unspec)", q.2.18.4.1.J::"all other characters (unspec)", q.2.18.4.1.E:: "punctuation"}.

ID: 2.18.1

TITLE: Must not

INDENT: 1

TEXT: Must passwords not use specific character types near the beginning?

DISPLAY\_WHEN: 2.18.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.18.1.2

INDENT: 2

DISPLAY\_WHEN: 2.18.1.C

This applies to [NUMERICAL]{min::2;; invalid\_text:: How many?} characters near the beginning of a password.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.18.1.1

INDENT: 1

DISPLAY\_WHEN: 2.18.1.C

NOTE: Check all that apply: <br>Mods: with a character in the first [INSERT]{qref::q.2.18.1.2.a} characters in the set of [INSERT]{qref::q.2.18.1.1}[MOD]{q.2.18.1.1.F::"these special characters: [INSERT]{qref::q.2.18.1.1.F.a}", q.2.18.1.1.A::"upper-case letters", q.2.18.1.1.B::"lower-case letters", q.2.18.1.1.C::"letters (unspec)", q.2.18.1.1.D::"numbers", q.2.18.1.1.G::"special characters (unspec)", q.2.18.1.1.H::"control or non-printable characters (unspec)", q.2.18.1.1.J::"all other characters (unspec)", q.2.18.1.1.E::"punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters} <font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users must not create passwords with a character in the first [INSERT]{qref::q.2.18.1.2.a} characters in the set of [INSERT]{qref::q.2.18.1.1}[MOD]{q.2.18.1.1.F::"these special characters: [INSERT]{qref::q.2.18.1.1.F.a}", q.2.18.1.1.A::"upper-case letters", q.2.18.1.1.B::"lower-case letters", q.2.18.1.1.C::"letters (unspec)", q.2.18.1.1.D::"numbers", q.2.18.1.1.G::"special characters (unspec)", q.2.18.1.1.H::"control or non-printable characters (unspec)", q.2.18.1.1.J::"all other characters (unspec)", q.2.18.1.1.E::"punctuation"}.

ID: 2.18.2

TITLE: Should not

INDENT: 1

TEXT: Should passwords not use specific character types near the beginning?

DISPLAY\_WHEN: 2.18.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.18.2.2

INDENT: 2

DISPLAY\_WHEN: 2.18.2.C

This applies to [NUMERICAL]{min::2;; invalid\_text:: How many?} characters near the beginning of a password.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.18.2.1

INDENT: 1

DISPLAY\_WHEN: 2.18.2.C

NOTE: Check all that apply: <br>Mods: with a character in the first [INSERT]{qref::q.2.18.2.2.a} characters in the set of [INSERT]{qref::q.2.18.2.1}[MOD]{q.2.18.2.1.F::"these special characters: [INSERT]{qref::q.2.18.2.1.F.a}", q.2.18.2.1.A::"upper-case letters", q.2.18.2.1.B::"lower-case letters", q.2.18.2.1.C::"letters (unspec)", q.2.18.2.1.D::"numbers", q.2.18.2.1.G::"special characters (unspec)", q.2.18.2.1.H::"control or non-printable characters (unspec)", q.2.18.2.1.J::"all other characters (unspec)", q.2.18.2.1.E::"punctuation"}

[]uppercase letters

[]lowercase letters

[]letters, but case is not specified

[]numbers

[]punctuation

[]these special characters: [TEXTBOX]{invalid\_text:: Enter the specified special characters}<font color=”gray”> (Enter the specified characters without spaces, delimiters or repeats)</font>

[]special characters, not specified

[]“non-printable characters” or “control characters” <font color=”gray”> (for example, “Ctrl+C”)</font>

[]white space

[]“all other characters”

[]those used in the previous password<p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick all that apply}

RESPONSE\_BNF: Users should not create passwords with a character in the first [INSERT]{qref::q.2.18.2.2.a} characters in the set of[INSERT]{qref::q.2.18.2.1}[MOD]{q.2.18.2.1.F::"these special characters: [INSERT]{qref::q.2.18.2.1.F.a}", q.2.18.2.1.A::"upper-case letters", q.2.18.2.1.B::"lower-case letters", q.2.18.2.1.C::"letters (unspec)", q.2.18.2.1.D::"numbers", q.2.18.2.1.G::"special characters (unspec)", q.2.18.2.1.H::"control or non-printable characters (unspec)", q.2.18.2.1.J::"all other characters (unspec)", q.2.18.2.1.E::"punctuation"}.

## Character Occurrence, Sequences and Patterns

COMMENT: I am having problems with this topic:

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

()I can’t tell if this policy addresses the use of character combinations, sequences and patterns.

()The choices above don’t let me identify what’s in the policy. (Explain): [MEMO]

### Using the Same Character

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using the same character once, more than once, or more than once in a row:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Consecutive, Recurring, Sequential and Unique Characters**

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using the same character once, more than once, or more than once in a row:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.20

TEXT: Does the policy mention how often a character appears in a password?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.20.1

TITLE:More than once

DISPLAY\_WHEN: 2.20.C

INDENT: 1

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Do not include any character more than 5 times.**</dd></dl></font>

TEXT: Does the policy limit how many times a character appears?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.20.1.1

DISPLAY\_WHEN: 2.20.1.C

INDENT: 2

()Passwords MUST NOThave the same character [NUMERICAL]{min::1;; invalid\_text:: How many?} times or more.

BNF: Users must not create passwords in the set of strings with a character repeated [INSERT]{qref::q.2.20.1.1.A.a} or more times.

()Passwords SHOULD NOT have the same character [NUMERICAL]{min::1;; invalid\_text:: How many?} times or more.<p>

BNF: Users should not create passwords in the set of strings with a character repeated [INSERT]{qref::q.2.20.1.1.B.a} or more times.

()The policy limits how many times a character appears, but does not specify a number.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.19

TITLE:More than once in a row

DISPLAY\_WHEN: 2.20.C

INDENT: 1

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example: </dt><dd>**Do not repeat any character 3 times in a row. For instance, do not use AAA.**</dd></dl></font>

TEXT: Does the policy limit how many times a character appears in a row?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.19.1

DISPLAY\_WHEN: 2.19.C

INDENT: 2

()Passwords MUST NOThave the same character [NUMERICAL]{min::1;; invalid\_text:: How many?} times or more in a row.

BNF: Users must not create passwords in the set of strings with a character repeated [INSERT]{qref::q.2.19.1.A.a} or more times consecutively.

()Passwords SHOULD NOT have the same character [NUMERICAL]{min::1;; invalid\_text:: How many?} times or more in a row.<p>

BNF: Users should not create passwords in the set of strings with a character repeated [INSERT]{qref::q.2.19.1.B.a} or more times consecutively.

()The policy limits how many times a character appears, but does not specify a number.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Using Different Characters

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using different characters in a sequence or pattern:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Letter and Number Patterns**

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using different characters in a sequence or pattern:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.22

TEXT: Does the policy mention using different characters or using them in a sequence or pattern?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.22.0

TITLE:Different characters

DISPLAY\_WHEN: 2.22.C

INDENT: 1

INSTRUCTIONS: <font color=”gray”> <dl><dt>Rule example 1: </dt><dd>**Passwords must have at least 5 different characters.**</dd><p><dt>Rule example 2:</dt><dd>**Passwords must not contain all of the same character.**<dd> (Passwords must have 2 or more different characters.)</dd></dl></font>

#<dt>Hint: Unique characters only appear once.</dt>

TEXT: Does the policy mention using different characters in a password?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.22.1

DISPLAY\_WHEN: 2.22.0.C

INDENT: 2

()Passwords MUSThave [NUMERICAL]{min::1;; invalid\_text:: How many unique characters?} or more different characters.

BNF: Users must create passwords in the set of strings with at least [INSERT]{qref::q.2.22.1.A.a} unique characters.

()Passwords SHOULDhave [NUMERICAL]{min::1;; invalid\_text:: How many unique characters?} or more different characters.<p>

BNF: Users should create passwords in the set of strings with at least [INSERT]{qref::q.2.22.1.B.a} unique characters.

()The policy mentions using different characters, but does not specify a number.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.21

DISPLAY\_WHEN: 2.22.C

INDENT: 1

TITLE: In a sequence

INSTRUCTIONS: <p><font color=”gray”>Examples: 12345, abcde, 2468, mnopq</font><p>

TEXT: Does the policy mention using characters in a sequence?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.21.1

DISPLAY\_WHEN: 2.21.C

INDENT: 2

()Passwords MUST NOThave a sequence of [NUMERICAL]{min::1;; invalid\_text:: How many?} or more characters.

BNF: Users must not create passwords in the set of strings with a run of [INSERT]{qref::q.2.21.1.A.a} or more consecutive characters in sequence.

()Password SHOULD NOThave a sequenceof [NUMERICAL]{min::1;; invalid\_text:: How many?} or more characters.<p>

BNF: Users should not create passwords in the set of strings with a run of [INSERT]{qref::q.2.21.1.B.a} or more consecutive characters in sequence.

()The policy mentions using character sequences, but does not specify length.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.23

TITLE:In a pattern

DISPLAY\_WHEN: 2.22.C

INDENT: 1

INSTRUCTIONS: <p><font color=”gray”>Examples: QWERTY, 44332211</font><p>

TEXT: Does the policy mention using characters in a pattern?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

ID: 2.23.1

DISPLAY\_WHEN: 2.23.C

INDENT: 2

()Passwords MUST NOTinclude a letter or number pattern

()Passwords SHOULD NOTinclude a letter or number pattern

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.23.1.1

INDENT: 1

DISPLAY\_WHEN: 2.23.1.A

DISPLAY\_WHERE: 2.23.1.A

()as an *entire* password.

BNF{2.23.1.A}: Users must not create passwords in the set of strings with word or number patterns (unspec).

()as *any part* of a password.<p>

BNF{2.23.1.A}: Users must not create passwords with a substring in the set of strings with word or number patterns (unspec).

()but the policy does not mention whether the pattern can be used as the password or part of the password.

()but these choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.23.2

INDENT: 1

DISPLAY\_WHEN: 2.23.1.B

DISPLAY\_WHERE: 2.23.1.B

()as an *entire* password.

BNF{2.23.1.B}: Users should not create passwords in the set of strings with word or number patterns (unspec).

()as *any* *part* of a password.<p>

BNF{2.23.1.B}: Users should not create passwords with a substring in the set of strings with word or number patterns (unspec).

()but the policy does not mention whether the pattern can be used as the password or part of the password.

()but these choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Identifying Information and Dates

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using names, places or dates:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Person, Place, Date**

COMMENT: If you have observations about this topic, let us know.

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.24

TEXT: Does the policy mention using identifying information or dates in a new password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.24.1

DISPLAY\_WHEN: 2.24.C

INDENT: 1

TITLE:Account ID

INSTRUCTIONS: <font color=”gray”>Account ID associated with the password</font><p>

TEXT:Does the policy mention using the user’s account ID in a new password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.24.1.1

INDENT: 2

DISPLAY\_WHEN: 2.24.1.C

()The user’s account ID MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords equal to the user ID.

()The user’s account ID SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords equal to the user ID.

()The user’s account ID MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring equal to the user ID.

()The user’s account ID SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring equal to the user ID.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.25

DISPLAY\_WHEN: 2.24.C

INDENT: 1

TITLE: The user’s name

INSTRUCTIONS: <font color=”gray”>Example: Charlie</font><p>

TEXT: Does the policy mention using the user’s own name?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.25.1

INDENT: 2

DISPLAY\_WHEN: 2.25.C

()The user’s name MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords equal to their name.

()The user’s name SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords equal to their name.

()The user’s name MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring equal to their name.

()The user’s name SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring equal to their name.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.26

DISPLAY\_WHEN: 2.24.C

INDENT: 1

TITLE: Personally Identifying Information (PII)

INSTRUCTIONS: <font color=”gray”>Example: Employee number, Social Security Number</font><p>

TEXT: Does the policy mention using PII?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

()Yes

ID: 2.26.1

INDENT: 2

DISPLAY\_WHEN: 2.26.C

()PII MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of personally identifying information.

()PII SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords in the set of personally identifying information.

()PII MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of personally identifying information.

()PII SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of personally identifying information.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.28

DISPLAY\_WHEN: 2.24.C

INDENT: 1

TITLE:Dates

INSTRUCTIONS: <font color=”gray”>Example: July4th1776</font><p>

TEXT: Does the policy mention using birthdays or other dates?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.28.1

INDENT: 2

DISPLAY\_WHEN: 2.28.C

()A date MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of birthdays or other dates.

()A date SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords in the set of birthdays or other dates.

()A date MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of birthdays or other dates.

()A date SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of birthdays or other dates.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Addresses and Proper Nouns

COMMENT: About this topic, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Places and Nouns**

COMMENT: If you have observations about this topic, let us know.

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.27

TEXT: Does the policy mention using addresses or proper nouns in a new password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.27.1

TITLE:Addresses

INDENT: 1

DISPLAY\_WHEN: 2.27.C

INSTRUCTIONS: <font color=”gray”>Example: 123MainStreet</font><p>

TEXT: Does the policy mention using addresses in a new password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.27.1.1

INDENT: 2

DISPLAY\_WHEN: 2.27.1.C

()An address MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of addresses or other locations.

()An address SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords in the set of addresses or other locations.

()An address MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of addresses or other locations.

()An address SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of addresses or other locations.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.29

TITLE:Proper nouns

INDENT: 1

DISPLAY\_WHEN: 2.27.C

INSTRUCTIONS: <font color=”gray”>Examples: Zimbabwe, Congress, JohnDoe</font><p>

TEXT: Does the policy mention using proper nouns?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.29.1

INDENT: 2

DISPLAY\_WHEN: 2.29.C

()A proper noun MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of proper nouns.

()A proper noun SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords in the set of proper nouns.

()A proper noun MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of proper nouns.

()A proper noun SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of proper nouns.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Words and Their Variants

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using dictionary words and variants:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Dictionary Words and Variations**

The policy may make statements about using words likely to be found in a dictionary (i.e., “dictionary words”). The following questions ask about those statements, including whether the conditions apply to *an entire password* or *a part of the password*.

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses using dictionary words or any variants of dictionary words.

[]There are 1 or more duplicative policy statements for this topic in the policy. Describe all that apply. [MEMO]

[]There are 1 or more different statements relevant to this topic in the policy. Describe all that apply. [MEMO]

[]The choices above don’t let me identify what’s in the policy. (Explain): [MEMO]

ID: 2.30

TEXT: Does the policy mention using words and their variants in a new password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.30.1

TITLE: Words

INSTRUCTIONS: <font color=”gray”>Words likely to be found in a dictionary, for example: giraffe</font><p>

INDENT: 1

DISPLAY\_WHEN: 2.30.C

TEXT: Does the policy mention using a word in a password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.30.1.1

INDENT: 2

DISPLAY\_WHEN: 2.30.1.C

()A word MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of dictionary words.

()A word SHOULD NOTbe used as an *entire* password. <p>

BNF: Users should not create passwords in the set of dictionary words.

()A word MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of dictionary words.

()A word SHOULD NOT be *any part* of a password. <p>

BNF: Users should not create passwords with a substring in the set of dictionary words.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.31

INDENT: 1

DISPLAY\_WHEN: 2.30.C

TITLE:Followed by a number

INSTRUCTIONS: <font color=”gray”>Example: giraffe8</font><p>

TEXT: Does the policy mention using a word followed by a number?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.31.1

INDENT: 2

DISPLAY\_WHEN: 2.31.C

()A word followed by a number MUST NOT be used as an *entire* password.

BNF: Users must not create passwords in the set of dictionary words followed by a number.

()A word followed by a number SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of dictionary words followed by a number.

()A word followed by a number MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of dictionary words followed by a number.

()A word followed by a number SHOULD NOT be *any part* of a password. <p>

BNF: Users should not create passwords with a substring in the set of dictionary words followed by a number.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.32

INDENT: 1

DISPLAY\_WHEN: 2.30.C

TITLE:Spelled backward

INSTRUCTIONS: <font color=”gray”>Example: effarig</font><p>

TEXT: Does the policy mention spelling a word backward?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.32.1

INDENT: 2

DISPLAY\_WHEN: 2.32.C

()A word spelled backward MUST NOT be used as an *entire* password.

BNF: Users must not create passwords in the set of dictionary words in reverse.

()A word spelled backward SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of dictionary words in reverse.

()A word spelled backward MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of dictionary words in reverse.

()A word spelled backward SHOULD NOT be *any part* of a password. <p>

BNF: Users should not create passwords with a substring in the set of dictionary words in reverse.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.33

INDENT: 1

DISPLAY\_WHEN: 2.30.C

TITLE: A word with numbers replacing some letters

INSTRUCTIONS: <font color=”gray”>Example: g1raff3</font><p>

TEXT: Does the policy mention replacing letters in a word with numbers?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.33.1

INDENT: 2

DISPLAY\_WHEN: 2.33.C

()A word where numbers replace some letters MUST NOT be used as an *entire* password.

BNF: Users must not create passwords in the set of dictionary words with numbers substituted for letters.

()A word where numbers replace some letters SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of dictionary words with numbers substituted for letters.

()A word where numbers replace some letters MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of dictionary words with numbers substituted for letters.

()A word where numbers replace some letters SHOULD NOT be *any part* of a password. <p>

BNF: Users should not create passwords with a substring in the set of dictionary words with numbers substituted for letters.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.34

INDENT: 1

DISPLAY\_WHEN: 2.30.C

TITLE:A word preceded or followed by a number or special character

INSTRUCTIONS: <font color=”gray”>Example: #giraffe3</font><p>

TEXT: Does the policy mention using a word preceded or followed by a number or special character?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.34.1

INDENT: 2

DISPLAY\_WHEN: 2.34.C

()A word preceded or followed by a number or special character MUST NOT be used as an *entire* password.

BNF: Users must not create passwords in the set of dictionary words preceded or followed by a number or special character (unspec).

()A word preceded or followed by a number or special character SHOULD NOTbe used as an *entire* password. <p>

BNF: Users should not create passwords in the set of dictionary words preceded or followed by a number or special character (unspec).

()A word preceded or followed by a number or special character MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of dictionary words preceded or followed by a number or special character (unspec).

()A word preceded or followed by a number or special character SHOULD NOT be *any part* of a password. <p>

BNF: Users should not create passwords with a substring in the set of dictionary words preceded or followed by a number or special character (unspec).

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Password Re-Use and Modification

The policy may make statements about re-using or modifying existing passwords. The following questions ask about those statements, including whether the conditions apply to an *entire password* or *a part of the password*.

COMMENT: If you have observations about this topic, let us know.

#INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

()I can’t tell if this policy addresses re-using or modifying existing passwords.

()The choices above don’t let me identify what’s in the policy. (Explain): [MEMO]

### Passwords from Other Systems

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using passwords from other systems:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**From other systems**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses using passwords from other systems.

[]The policy repeats information about using passwords from other systems. (Tell us what information is repeated.) [MEMO]

[]The policy has more information about using passwords from other systems than you ask here. (Tell us what we didn't ask about.) [MEMO]

ID: 2.36.0

TEXT: Does the policy mention using passwords from other systems?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.36.1

DISPLAY\_WHEN: 2.36.0.C

INDENT: 1

TITLE: From an outside system

TEXT: Does the policy mention using passwords used on *an outside system*?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.36.1.1

DISPLAY\_WHEN: 2.36.1.C

INDENT: 2

()A password used on an outside system MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of passwords to an outside system.

()A password used on an outside system SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of passwords to an outside system.

()A password used on an outside system MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of passwords to an outside system.

()A password used on an outside system SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of passwords to an outside system.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.37

TITLE:From any other system

DISPLAY\_WHEN: 2.36.0.C

INDENT: 1

TEXT: Does the policy mention using passwords used on *any other system*:

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.37.1

DISPLAY\_WHEN: 2.37.C

INDENT: 2

()A password used on any other system MUST NOT be used as an *entire* password.

BNF: Users must not create passwords in the set of passwords to any other system.

()A password used on any other system SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of passwords to any other system.

()A password used on any other system MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of passwords to any other system.

()A password used on any other system SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of passwords to any other system.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Existing or Default Passwords

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions using existing or default passwords:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Existing - Default**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[]I can’t tell if this policy addresses the use of incrementally-modified, default, or recently/frequently-used passwords.

[]There are 1 or more duplicative policy statements for this topic in the policy. Describe all that apply. [MEMO]

[]There are 1 or more different statements relevant to this topic in the policy. Describe all that apply. [MEMO]

[]The choices above don’t let me identify what’s in the policy. (Explain): [MEMO]

ID: 2.38.0

TEXT: Does the policy mention changing existing passwords or using default passwords?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.38

TITLE:Incremental changes to existing passwords

INSTRUCTIONS: <font color=”gray”>Example: C@ddy1 --> C@ddy2</font><p>

DISPLAY\_WHEN: 2.38.0.C

INDENT: 1

TEXT: Does the policy mention existing passwords that are modified by incremental changes?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.38.1

INDENT: 2

DISPLAY\_WHEN: 2.38.C

()A incremental change of an existing password MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of incremental changes to existing passwords (unspec).

()A incremental change of an existing password SHOULD NOTbe used as an *entire* password. <p>

BNF: Users should not create passwords in the set of incremental changes to existing passwords (unspec).

()A incremental change of an existing password MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of incremental changes to existing passwords (unspec).

()A incremental change of an existing password SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of incremental changes to existing passwords (unspec).

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.39

TITLE:Default passwords

INSTRUCTIONS: <font color=”gray”>A default password is a pre-set password that comes with a new account or system. </font><p>

DISPLAY\_WHEN: 2.38.0.C

INDENT: 1

TEXT: Does the policy mention using default passwords?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.39.1

DISPLAY\_WHEN: 2.39.C

INDENT: 2

()A default password MUST NOT be used as an *entire* password.

BNF: Users must not create passwords in the set of vendor default passwords.

()A default password SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of vendor default passwords.

()A default password MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of vendor default passwords.

()A default password SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of vendor default passwords.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Previously Used Passwords

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions previously used passwords:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Previously-Used**

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.40

TEXT: Does the policy mention using previous passwords in a new password?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.40.1

TITLE:Number of previous passwords

INDENT: 1

DISPLAY\_WHEN: 2.40.C

INSTRUCTIONS: <font color=”gray”>Example: Any of the last 10 passwords</font><p>

TEXT: Does the policy limit using a specific number of previous passwords?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.40.1.1

DISPLAY\_WHEN: 2.40.1.C

INDENT: 2

()The last [NUMERICAL]{min::1;; invalid\_text:: How many passwords?} passwords MUST NOT be re-used as the *entire* new password.

BNF: Users must not create passwords in the set of their last [INSERT]{qref::q.2.40.1.1.A.a} passwords.

()The last [NUMERICAL]{min::1;; invalid\_text:: How many passwords?} passwords SHOULD NOT be re-used as the *entire* new password.<p>

BNF: Users should not create passwords in the set of their last [INSERT]{qref::q.2.40.1.1.B.a} passwords.

()The last [NUMERICAL]{min::1;; invalid\_text:: How many passwords?} passwords MUST NOTbe re-used as *any part* of the new password.

BNF: Users must not create passwords with a substring in the set of their last [INSERT]{qref::q.2.40.1.1.C.a} passwords.

()The last [NUMERICAL]{min::1;; invalid\_text:: How many passwords?} passwords SHOULD NOT be re-used as *any part* ofthe new password<p>

BNF: Users should not create passwords with a substring in the set of their last [INSERT]{qref::q.2.40.1.1.D.a} passwords.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.41.1

INDENT: 1

DISPLAY\_WHEN: 2.40.C

TITLE:Number of previous years

INSTRUCTIONS: <font color=”gray”>Example: Passwords used during the last 2 years</font><p>

TEXT: Does the policy limit using passwords from a specific number of previous years?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.41.1.1

DISPLAY\_WHEN: 2.41.1.C

INDENT: 2

()Passwords used in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years MUST NOTbe re-used as the *entire* new password.

BNF: Users must not create passwords in the set of their last [INSERT]{qref::q.2.41.1.1.A.a} years of passwords.

()Passwords used in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years SHOULD NOTbe re-used as the *entire* new password.<p>

BNF: Users should not create passwords in the set of their last [INSERT]{qref::q.2.41.1.1.B.a} years of passwords.

()Passwords used in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years MUST NOTbe re-usedas *any part* ofthe new password.

BNF: Users must not create passwords with a substring in the set of their last [INSERT]{qref::q.2.41.1.1.C.a} years of passwords.

()Passwords used in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years SHOULD NOTbe re-used as *any part* ofthe new password. <p>

BNF: Users should not create passwords with a substring in the set of their last [INSERT]{qref::q.2.41.1.1.D.a} years of passwords.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.42.1

INDENT: 1

DISPLAY\_WHEN: 2.40.C

TITLE:Repeated use over a number of previous years

INSTRUCTIONS: <font color=”gray”>Example: Passwords used 2 times in the last 3 years</font><p>

TEXT: Does the policy limit the number times a previous password can be repeated over a specific number of years?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.42.1.1

DISPLAY\_WHEN: 2.42.1.C

INDENT: 2

()Passwords used [NUMERICAL]{min::1;; invalid\_text:: Provide the number of times} times in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years MUST NOTbe re-used as the *entire* new password.

BNF: Users must not create passwords in the set of those passwords used [INSERT]{qref::q.2.42.1.1.A.a} times in the last [INSERT]{qref::q.2.42.1.1.A.b} years.

()Passwords used [NUMERICAL]{min::1;; invalid\_text:: Provide the number of times } times in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years SHOULD NOTbe re-used as the *entire* new password.<p>

BNF: Users should not create passwords in the set of those passwords used [INSERT]{qref::q.2.42.1.1.B.a} times in the last [INSERT]{qref::q.2.42.1.1.B.b} years.

()Passwords used [NUMERICAL]{min::1;; invalid\_text:: Provide the number of times} times in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years MUST NOTbe re-usedas *any part* ofthe new password.

BNF: Users must not create passwords with a substring in the set of those passwords used [INSERT]{qref::q.2.42.1.1.C.a} times in the last [INSERT]{qref::q.2.42.1.1.C.b} years.

()Passwords used [NUMERICAL]{min::1;; invalid\_text:: Provide the number of times } times in the last [NUMERICAL]{min::1;; invalid\_text:: How many years?} years SHOULD NOTbe re-used as *any part*ofthe new password. <p>

BNF: Users should not create passwords with a substring in the set of those passwords used [INSERT]{qref::q.2.42.1.1.D.a} times in the last [INSERT]{qref::q.2.42.1.1.D.b} years.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

### Variations of Prohibited Passwords

COMMENT: About this topic, tell us if:

# You can't tell if this policy mentions variations of prohibited passwords:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Variations on Prohibited Passwords**

If the policy prohibits using certain passwords, it might also address using *variants* of those prohibited passwords. The following questions ask about those statements, including whether the conditions apply to an *entire password* or *a part of the password*.

COMMENT: About this topic, tell us if:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 2.43.0

INSTRUCTIONS: <p><font color=”gray”><dl><dt>Rule example 1:</dt><dd>**Don’t use passwords with proper nouns or dates combined or spelled backward.** <br>(Two rules: one about concatenated passwords and one about reversing prohibited passwords.)</dd><br><dt>Rule example 2:</dt><dd>**Don’t follow a prohibited password with a number.** </dd></dl></font>

TEXT: Does the policy mention using variations of prohibited passwords?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.43

DISPLAY\_WHEN: 2.43.0.C

INDENT: 1

TITLE:Concatenating prohibited passwords

INSTRUCTIONS: <font color=”gray”>Example: ZebraGiraffe</font><p>

TEXT: Does the policy mention concatenating prohibited passwords?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.43.1

DISPLAY\_WHEN: 2.43.C

INDENT: 2

()Prohibited passwords that are concatenated MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of otherwise forbidden content concatenated.

()Prohibited passwords that are concatenated SHOULD NOTbe used as an *entire* password.<p>

BNF: Users should not create passwords in the set of otherwise forbidden content concatenated.

()Prohibited passwords that are concatenated MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of otherwise forbidden content concatenated.

()Prohibited passwords that are concatenated SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of otherwise forbidden content concatenated.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><P>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.44

TITLE:Reversing prohibited passwords

DISPLAY\_WHEN: 2.43.0.C

INDENT: 1

INSTRUCTIONS: <font color=”gray”>Example: teertSniaM321</font><p>

TEXT: Does the policy mention reversing prohibited passwords?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.44.1

DISPLAY\_WHEN: 2.44.C

INDENT: 2

()Prohibited passwords that are reversed MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of otherwise forbidden content in reverse.

()Prohibited passwords that are reversed SHOULD NOT be used as an *entire* password. <p>

BNF: Users should not create passwords in the set of otherwise forbidden content in reverse.

()Prohibited passwords that are reversed MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of otherwise forbidden content in reverse.

()Prohibited passwords that are reversed SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of otherwise forbidden content in reverse.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 2.45

TITLE:Prohibited passwords preceded or followed by a number

DISPLAY\_WHEN: 2.43.0.C

INDENT: 1

INSTRUCTIONS: <font color=”gray”>Example: 4Zimbabwe</font><p>

TEXT: Does the policy mention using prohibited passwords that are preceded or followed by a number?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 2.45.1

DISPLAY\_WHEN: 2.45.C

INDENT: 2

()Prohibited passwords that are preceded or followed by a number MUST NOTbe used as an *entire* password.

BNF: Users must not create passwords in the set of otherwise forbidden content preceded or followed by a number.

()Prohibited passwords that are preceded or followed by a number SHOULD NOT be used as an *entire* password.<p>

BNF: Users should not create passwords in the set of otherwise forbidden content preceded or followed by a number.

()Prohibited passwords that are preceded or followed by a number MUST NOT be *any part* of a password.

BNF: Users must not create passwords with a substring in the set of otherwise forbidden content preceded or followed by a number.

()Prohibited passwords that are preceded or followed by a number SHOULD NOT be *any part* of a password.<p>

BNF: Users should not create passwords with a substring in the set of otherwise forbidden content preceded or followed by a number.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

# Storing Passwords

#INSTRUCTIONS: A policy may state where users can or cannot store or record passwords in written or printed form (i.e., hardcopy) or in electronic form (for example, in a computer file, browser assistance, database, online, etc.).

COMMENT: About storing passwords, tell us if:

[:You can't tell if this policy mentions storing passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

## As Hardcopy

#INSTRUCTIONS: A policy may state where and how users can or cannot store or record passwords in hardcopy.

COMMENT: About storing passwords as hardcopy, tell us if:

# You can't tell if this policy mentions storing passwords as hardcopy:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**In Writing or Print**

A policy may state where and how users can or cannot store or record passwords in written or printed form (i.e., hardcopy).

COMMENT: About storing passwords in written or printed form, tell us if:

[:You can't tell if this policy mentions storing passwords in written or printed form:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 3.1

#TITLE: Storing passwords in hardcopy form

INSTRUCTIONS: <font color=”gray”>Examples: In writing, on paper </font><p>

TEXT: Does the policy mention storing passwords as hardcopy?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes<p>

ID: 3.2

TITLE: Anywhere

INDENT: 1

TEXT: Does the policy mention storing passwords as hardcopy in any location?

DISPLAY\_WHEN: 3.1.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.2.1

INDENT: 2

DISPLAY\_WHEN: 3.2.C

()Passwords MUST NOT be stored as hardcopy *anywhere*.

BNF: Users must not store passwords in writing anywhere.

()Passwords SHOULD NOT be stored as hardcopy *anywhere*.<p>

BNF: Users should not store passwords in writing anywhere.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.6

TITLE: In a Secure Location

INDENT: 1

TEXT: Does the policy mention storing passwords as hardcopy in a secure location?

DISPLAY\_WHEN: 3.1.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.6.1

INDENT: 2

DISPLAY\_WHEN: 3.6.C

()Passwords MUSTbe stored as hardcopy *in a secure location*.

BNF: Users must store passwords in writing in a secure location.

()Passwords SHOULD be stored as hardcopy *in a secure location*. <p>

BNF: Users should store passwords in writing in a secure location.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.3

TITLE: In an Unsecure Location

INDENT: 1

TEXT: Does the policy mention storing passwords as hardcopy in a location that is not secure?

DISPLAY\_WHEN: 3.1.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.3.1

INDENT: 2

DISPLAY\_WHEN: 3.3.C

()Passwords MUST NOT be stored as hardcopy *in a location that is not secure*.

BNF: Users must not store passwords in writing in an unsecure location.

()Passwords SHOULD NOT be stored as hardcopy *in a location that is not secure*. <p>

BNF: Users should not store passwords in writing in an unsecure location.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.4

TITLE: In Plain Text

INDENT: 1

INSTRUCTIONS: <font color=gray>Hint: not disguised or masked</font>

TEXT: Does the policy mention storing passwords as hardcopy in plain text?

DISPLAY\_WHEN: 3.1.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.4.1

INDENT: 2

DISPLAY\_WHEN: 3.4.C

()Passwords MUST NOT be stored as hardcopy *in plain text*.

BNF: Users must not store passwords in writing in clear text or weakly encrypted.

()Passwords SHOULD NOT be stored as hardcopy *in plain text*. <p>

BNF: Users should not store passwords in writing in clear text or weakly encrypted.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.5

TITLE: In Plain Text in an Unsecure Location

INDENT: 1

TEXT: Does the policy mention storing passwords as hardcopy in plain textin a location that is not secure?

DISPLAY\_WHEN: 3.1.C

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.5.1

INDENT: 2

DISPLAY\_WHEN: 3.5.C

()Passwords MUST NOT be stored as hardcopy *in plain text**in a location that is not secure*.

BNF: Users must not store passwords in writing in clear text in an unsecure location.

()Passwords SHOULD NOT be stored as hardcopy *in plain text**in a location that is not secure*. <p>

BNF: Users should not store passwords in writing in clear text in an unsecure location.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Digitally

#Policies may address the storage of passwords in electronic form (for example, on computers, on flash drives, in applications, on networks, etc.) for the following locations.

COMMENT: About storing passwords digitally, tell us if:

# You can't tell if this policy mentions storing passwords digitally:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Digital and Online**

Policies may address the storage of passwords in electronic form (for example, on computers, on flash drives, in applications, on networks, etc.) for the following locations.

COMMENT: About storing passwords in electronic form, tell us if:

[:You can't tell if this policy mentions storing passwords in electronic form:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 3.8

#TITLE: Storing Passwords in Digital Form

INSTRUCTIONS: <font color=”gray”>Examples: On a flash drive, in a computer program </font><p>

TEXT: Does the policy mention storing passwords digitally or online?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes<p>

ID: 3.9

INDENT: 1

TITLE: Anywhere

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mention digitally storing passwords in any location?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.9.1

INDENT: 2

DISPLAY\_WHEN: 3.9.C

()Passwords MUST NOT be digitally stored *anywhere*.

BNF: Users must not store passwords online anywhere.

()Passwords SHOULD NOT be digitally stored *anywhere*. <p>

BNF: Users should not store passwords online anywhere.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.11

TITLE: In a Secure Location

INDENT: 1

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mention digitally storing passwords in a secure location?

()I can't tell

()No

()Yes

ID: 3.11.1

INDENT: 2

DISPLAY\_WHEN: 3.11.C

()Passwords stored digitally MUSTbe *in a secure location*.

BNF: Users must store passwords online in a secure location.

()Passwords stored digitally SHOULD be *in a secure location*. <p>

BNF: Users should store passwords online in a secure location.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.10

TITLE: In an Unsecure Location

INDENT: 1

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mention digitally storing passwords in a location that is not secure?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.10.1

INDENT: 2

DISPLAY\_WHEN: 3.10.C

()Passwords stored digitally MUST NOT be *in a location that is not secure*.

BNF: Users must not store passwords online in an unsecure location.

()Passwords stored digitally SHOULD NOT be *in a location that is not secure*. <p>

BNF: Users should not store passwords online in an unsecure location.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.12

INDENT: 1

TITLE: In Automated Scripts

INSTRUCTIONS: <font color=”gray”> Example: Browser password caching is considered a type of automated script</font><p>

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mention digitally storing passwords in automated scripts?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.12.1

INDENT: 2

DISPLAY\_WHEN: 3.12.C

()Passwords MUST NOT be stored *in automated scripts*.

BNF: Users must not store passwords online in automated scripts.

()Passwords SHOULD NOT be stored *in automated scripts*. <p>

BNF: Users should not store passwords online in automated scripts.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.13

TITLE: Unencrypted or weakly encrypted

INDENT: 1

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mention digitally storing unencrypted or weakly encrypted passwords?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.13.1

INDENT: 2

DISPLAY\_WHEN: 3.13.C

()Passwords MUST NOT be digitally stored *unencrypted or weakly encrypted***.**

BNF: Users must not store passwords online in clear text or weakly encrypted.

()Passwords SHOULD NOT be digitally stored *unencrypted or weakly encrypted*. <p>

BNF: Users should not store passwords online in clear text or weakly encrypted.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.14

TITLE: Unencrypted in an Unsecure Location

INDENT: 1

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mentions digitally storing unencrypted passwords in a location that is not secure?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.14.1

INDENT: 2

DISPLAY\_WHEN: 3.14.C

()Passwords MUST NOT be digitally stored *unencrypted in a location that is not secure***.**

BNF: Users must not store passwords online in clear text in an unsecure location.

()Passwords SHOULD NOT be digitally stored *unencrypted in a location that is not secure*. <p>

BNF: Users should not store passwords online in clear text in an unsecure location.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.15

TITLE: On an Outside System

INDENT: 1

DISPLAY\_WHEN: 3.8.C

TEXT: Does the policy mention digitally storing passwords on an outside system?

()I can't tell

()No

()Yes

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 3.15.1

INDENT: 2

DISPLAY\_WHEN: 3.15.C

()Passwords MUST NOT be stored *on an outside system*.

BNF: Users must not store passwords online on outside systems.

()Passwords SHOULD NOT be stored *on an outside system*. <p>

BNF: Users should not store passwords online on outside systems.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

# Changing Passwords

The password policy may tell users *when* and *under what conditions* (for example, time period or an event) they must change their passwords.

COMMENT: If you have observations about this topic, let us know.

INSTRUCTIONS: Comments regarding topics on this page should be provided below. Provide other feedback or ask questions through the <a href="#" onclick="follow\_link\_with\_next('/general\_comments')">General Comment</a> page.

()I can’t tell if this policy addresses changing passwords.

()The choices above don’t let me identify what’s in the policy. (Explain): [MEMO]

## Timeline for changing passwords

COMMENT: About changing passwords, tell us if:

# You can't tell if this policy mentions how often to change passwords:

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Timeline**

COMMENT: About changing passwords, tell us if:

[:You can't tell if this policy mentions how often to change passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 4.1

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example 1:</dt><dd>Passwords must be changed within 90 days.</dd><br><dt>Rule example 2:</dt><dd> Please note that passwords can only be changed once in a 24 hour period.</dd></dl></font><p>

TEXT: Does the policy mention a set timeframe for changing passwords?

()I can't tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 4.1.1

INDENT: 1

#TITLE: Changing Passwords *Within # Days*

#TEXT: Within a specified number of days

DISPLAY\_WHEN: 4.1.C

()Passwords MUST be changed within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users must change passwords before [INSERT]{qref::q.4.1.1.E.a} days.

()Passwords SHOULD be changed within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.<p>

BNF: Users should change passwords before [INSERT]{qref::q.4.1.1.F.a} days.

# New question

()Passwords MUST NOT be changed within 1 day.

BNF: Users must not change passwords before 1 day.

()Passwords SHOULD NOT be changed within 1 day. <p>

BNF: Users should not change passwords before 1 day.

()Passwords MUST NOT be changed within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users must not change passwords before [INSERT]{qref::q.4.1.1.I.a} days.

()Passwords SHOULD NOT be changed within [NUMERICAL]{min::2;; invalid\_text:: How many?} days. <p>

BNF: Users should not change passwords before [INSERT]{qref::q.4.1.1.J.a} days.

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.1.1.1

#INDENT: 1

TEXT: Does the policy mention another rule about a set timeframe?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

CLONE: q.4.1.1,q.4.1.1.1

#ID: 4.1.2

#INDENT: 1

#TEXT: Immediately

#DISPLAY\_WHEN: 4.1.C

# ()I can't tell if the policy mentions changing passwords immediately.

# ()The policy doesn't mention this topic.<p>

# ()Passwords MUST be changed *immediately*.

#BNF: Users must change passwords immediately.

# ()Passwords SHOULD be changed *immediately*. <p>

#BNF: Users should change passwords immediately.

# ()Passwords MUST NOT be changed *immediately*.

#BNF: Users must not change passwords immediately.

# ()Passwords SHOULD NOT be changed *immediately*.

#BNF: Users should not change passwords immediately.

#RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

## Conditions for changing passwords

COMMENT: About changing passwords, tell us if:

[:You can't tell if this policy mentions triggers for changing passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Conditions**

COMMENT: About changing passwords, tell us if:

[:You can't tell if this policy mentions when to change passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 4.2.0

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example 1:</dt><dd>**Passwords must be changed if compromise is suspected.**</dd><br><dt>Rule example 2:</dt><dd> I**f you give a co-worker your password, you must change it.**</dd></dl></font><p>

TEXT: Does the policy mention conditions that trigger a password change?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes<p>

ID: 4.2.1

TITLE: When a Password Is Compromised

DISPLAY\_WHEN: 4.2.0.C

INDENT: 1

TEXT: Does the policy mention changing a password when it is compromised?

#TEXT: If a password is *compromised*,

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 4.2.1.1

INDENT: 2

DISPLAY\_WHEN: 4.2.1.C

()The user MUST change it

()The user SHOULD change it

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.2.1.1.1

#INDENT: 1

#TEXT: This password change must happen:

DISPLAY\_WHEN: 4.2.1.1.A

DISPLAY\_WHERE: 4.2.1.1.A

()immediately.

BNF: Users must change passwords immediately if compromised.

()within 1 day.

BNF: Users must change passwords before 1 day if compromised.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users must change passwords before [INSERT]{qref::q.4.2..1.1.1.C.a} days if compromised.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.2.2

#INDENT: 1

#TEXT: This password change should happen:

DISPLAY\_WHEN: 4.2.1.1.B

DISPLAY\_WHERE: 4.2.1.1.B

()immediately.

BNF: Users should change passwords immediately if compromised.

()within 1 day.

BNF: Users should change passwords before 1 day if compromised.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users should change passwords before [INSERT]{qref::q.4.2.2.C.a} days if compromised.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.3

TITLE: When a Password Is Found to be Non-Compliant with the Policy

DISPLAY\_WHEN: 4.2.0.C

INDENT: 1

TEXT: Does the policy mention changing a password if itdoes not comply with the policy?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 4.3.1

DISPLAY\_WHEN: 4.3.C

INDENT: 2

()The user MUST change it

()The user SHOULD change it

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.3.1.1

#INDENT: 1

#TEXT: This password change must happen:

DISPLAY\_WHEN: 4.3.1.A

DISPLAY\_WHERE: 4.3.1.A

()immediately.

BNF: Users must change passwords immediately if found non-compliant.

()within 1 day.

BNF: Users must change passwords before 1 day if found non-compliant.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users must change passwords before [INSERT]{qref::q.4.3.1.1.C.a} days if found non-compliant.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.3.2

#INDENT: 1

#TEXT: This password change should happen:

DISPLAY\_WHEN: 4.3.1.B

DISPLAY\_WHERE: 4.3.1.B

()immediately.

BNF: Users should change passwords immediately if found non-compliant.

()within 1 day.

BNF: Users should change passwords before 1 day if found non-compliant.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users should change passwords before [INSERT]{qref::q.4.3.2.C.a} days if found non-compliant.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.4

TITLE: When a Password Is Sent Unencrypted

INDENT: 1

TEXT: Does the policy mention changing a password if it is sent unencrypted?

DISPLAY\_WHEN: 4.2.0.C

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 4.4.1

INDENT: 2

DISPLAY\_WHEN: 4.4.C

()The user MUST change it

()The user SHOULD change it

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.4.1.1

#INDENT: 1

#TEXT: This password change must happen:

DISPLAY\_WHEN: 4.4.1.A

DISPLAY\_WHERE: 4.4.1.A

()immediately.

BNF: Users must change passwords immediately if sent unencrypted.

()within 1 day.

BNF: Users must change passwords before 1 day if sent unencrypted.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users must change passwords before [INSERT]{qref::q.4.4.1.1.C.a} days if sent unencrypted.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.4.2

INDENT: 1

#TEXT: This password change should happen:

DISPLAY\_WHEN: 4.4.1.B

DISPLAY\_WHERE: 4.4.1.B

()immediately.

BNF: Users should change passwords immediately if sent unencrypted.

()within 1 day.

BNF: Users should change passwords before 1 day if sent unencrypted.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users should change passwords before [INSERT]{qref::q.4.4.2.C.a} days if sent unencrypted.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.5

INDENT: 1

TITLE: When a Password Is Shared

TEXT: Does the policy mention changing a password if it has been shared?

DISPLAY\_WHEN: 4.2.0.C

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 4.5.1

INDENT: 2

DISPLAY\_WHEN: 4.5.C

()The user MUST change it

()The user SHOULD change it

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.5.1.1

#INDENT: 2

#TEXT: This password change must/should happen:

DISPLAY\_WHEN: 4.5.1.A

DISPLAY\_WHERE: 4.5.1.A

()immediately.

BNF: Users must change passwords immediately if shared.

()within 1 day.

BNF: Users must change passwords before 1 day if shared.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users must change passwords before [INSERT]{qref::q.4.5.1.1.C.a} days if shared.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.5.2

#INDENT: 1

#TEXT: This password change must/should happen:

DISPLAY\_WHEN: 4.5.1.B

DISPLAY\_WHERE: 4.5.1.B

()immediately.

BNF: Users should change passwords immediately if shared.

()within 1 day.

BNF: Users should change passwords before 1 day if shared.

()within [NUMERICAL]{min::2;; invalid\_text:: How many?} days.

BNF: Users should change passwords before [INSERT]{qref::q.4.5.2.C.a} days if shared.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.6

INDENT: 1

TITLE: When Directed by Management

TEXT: Does the policy mention changing a password if directed by management?

DISPLAY\_WHEN: 4.2.0.C

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 4.6.1

INDENT: 2

DISPLAY\_WHEN: 4.6.C

()The user MUST change the password

()The user SHOULD change the password

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font><p>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.6.1.1

#TEXT: This password change must/should happen:

#INDENT: 1

DISPLAY\_WHEN: 4.6.1.A

DISPLAY\_WHERE: 4.6.1.A

()immediately.

BNF: Users must change passwords immediately if directed by management.

()within 1 day.

BNF: Users must change passwords before 1 day if directed by management.

()within [NUMERICAL]{min::1;; invalid\_text:: How many?} days.

BNF: Users must change passwords before [INSERT]{qref::q.4.6.1.1.C.a} days if directed by management.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 4.6.2

#TEXT: This password change must/should happen:

#INDENT: 1

DISPLAY\_WHEN: 4.6.1.B

DISPLAY\_WHERE: 4.6.1.B

()immediately.

BNF: Users should change passwords immediately if directed by management.

()within 1 day.

BNF: Users should change passwords before 1 day if directed by management.

()within [NUMERICAL]{min::1;; invalid\_text:: How many?} days.

BNF: Users should change passwords before [INSERT]{qref::q.4.6.2.C.a} days if directed by management.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

# Entering Passwords Incorrectly

#The policy may describe consequences for entering incorrect passwords during login attempts.

COMMENT: About entering passwords incorrectly, tell us if:

#You can't tell if this policy mentions incorrect password entry and its consequences

[:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

#Incorrect Password Entry – LVL 2 heading when incorporated

#TEXT: The policy may describe consequences for entering incorrect passwords during login attempts.

#COMMENT: About login failures, tell us if:

#[:You can't tell if this policy mentions the consequences of entering incorrect passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**Incorrect Entry**

TEXT: The policy may describe consequences for entering incorrect passwords during login attempts.

COMMENT: About failing to authenticate, tell us if:

[:You can't tell if this policy mentions incorrect password entry and its consequences:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 5.1

#TITLE: Incorrect Password Entry

INSTRUCTIONS: <font color=”gray”><dl><dt>Rule example 1:</dt><dd>**An account will be locked if 5 failed login attempts occur within 3 minutes.**</dd></font> <p>

TEXT: Does the policy mention what happens if a password is incorrectly entered?

()I can’t tell

()No

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1. Select ‘Yes’ for more on this topic.}

()Yes

ID: 5.1.1

INDENT: 1

DISPLAY\_WHEN: 5.1.C

()The policy does not mention the number of incorrect passwords that triggers a lockout.<p>

()A user will be locked out after entering [NUMERICAL]{min::1;; invalid\_text:: How many?} incorrect passwords in a row.<p>

()A user will be locked out after entering [NUMERICAL]{min::1;; invalid\_text:: How many?} incorrect passwords in [NUMERICAL]{min::1;; invalid\_text:: Provide the lockout duration} [| seconds | minutes | hours |]{default::(time);; invalid\_text:: Pick a unit of time}.<p>

()These choices don’t let me identify what’s in the policy. <font color=gray>(Tell us below)</font>

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

#Lockout Duration and Recovery – lvl 2 heading when incorporated

#it is likely 5.1 and 5.2 should go on the same page, need to see how it renders

#TEXT: The policy may describe additional consequences for entering incorrect passwords during login attempts.

#COMMENT: About consequences of failing to authenticate, tell us if:

#[:You can't tell if this policy mentions the consequences for incorrectly entering passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

**#Lockout and Recovery**

#it is likely 5.1 and 5.2 should go on the same page, need to see how it renders

#TEXT: The policy may describe additional consequences for entering incorrect passwords during login attempts.

#COMMENT: About consequences of failing to authenticate, tell us if:

#[:You can't tell if this policy mentions the consequences for incorrectly entering passwords:The policy wording was unclear:The policy repeats information:The policy mentions information we don't ask about:You didn't understand what we were asking:Other:]Tell us more. We love the details.[MEMO]

ID: 5.2

#INDENT: 1

#TITLE: Lockout Duration and Recovery

#TEXT: When a user is locked out after entering incorrect passwords:

DISPLAY\_WHEN: 5.1.1.B

DISPLAY\_WHERE: 5.1.1.B

()The lockout lasts for an unspecified period of time.

BNF {5.1.1.B}: Users must not fail to authenticate [INSERT]{qref::q.5.1.1.B.a} times to avoid a lockout of unspecified duration.

()The lockout lasts for [NUMERICAL]{min::1;; invalid\_text:: How long?} [|seconds | minutes | hours|]{default::(time);; invalid\_text:: Pick a unit of time }.<p>

BNF {5.1.1.B}: Users must not fail to authenticate [INSERT]{qref::q.5.1.1.B.a} times to avoid a [INSERT]{qref::q.5.2.B.a} [INSERT]{qref::q.5.2.B.b} lockout.

()An administrator must unlock the account.

BNF {5.1.1.B}: Users must not fail to authenticate [INSERT]{qref::q.5.1.1.B.a} times to avoid administrative unlock.

()Eitheran administrator must unlock the account OR the lockout lasts for [NUMERICAL]{min::1;; invalid\_text:: How long?} [|seconds | minutes | hours|]{default::(time);; invalid\_text:: Pick a unit of time }.<p>

#check the logic here, second data option may not be required – has the entire option been consolidated correctly?

BNF {5.1.1.B}: Users must not fail to authenticate [INSERT]{qref::q.5.1.1.B.a} times to avoid administrative unlock or a [INSERT]{qref::q.5.2.D.a} [INSERT]{qref::q.5.2.D.b} lockout.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}

ID: 5.3

#INDENT: 1

#Title: Lockout duration and recovery

#TEXT: When a user is locked out after entering incorrect passwords:

DISPLAY\_WHEN: 5.1.1.C

DISPLAY\_WHERE: 5.1.1.C

()The lockout lasts for an unspecified period of time.

BNF: Users must not fail to authenticate [INSERT]{qref::q.5.1.1.C.a} times in a [INSERT]{qref::q.5.1.1.C.b} [INSERT]{qref::q.5.1.1.C.c} interval to avoid a lockout of unspecified duration.

()The lockout lasts for [NUMERICAL]{min::1;; invalid\_text:: How long?} [|seconds | minutes | hours|]{default::(time);; invalid\_text:: Pick a unit of time }.<p>

BNF: Users must not fail to authenticate [INSERT]{qref::q.5.1.C.a} times in a [INSERT]{qref::q.5.1.1.C.b} [INSERT]{qref::q.5.1.1.C.c} interval to avoid a [INSERT]{qref::q.5.3.B.a} [INSERT]{qref::q.5.3.B.b} lockout.

()An administrator must unlock the account.

BNF: Users must not fail to authenticate [INSERT]{qref::q.5.1.C.a} times in a [INSERT]{qref::q.5.1.C.b} [INSERT]{qref::q.5.1.C.c} interval to avoid administrative unlock.

()Eitheran administrator must unlock the account OR the lockout lasts for [NUMERICAL]{min::1;; invalid\_text:: How long?} [|seconds | minutes | hours|]{default::(time);; invalid\_text:: Pick a unit of time }.<p>

#check the logic here, second data option may not be required – has the entire option been consolidated correctly?

BNF: Users must not fail to authenticate [INSERT]{qref::q.5.1.C.a} times in a [INSERT]{qref::q.5.1.C.b} [INSERT]{qref::q.5.1.C.c} interval to avoid administrative unlock or a [INSERT]{qref::q.5.3.D.a} [INSERT]{qref::q.5.3.D.b} lockout.

RESPONSE\_VALIDATION: {required::required;; invalid\_text:: Pick 1}