

QA Task

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1. Generate SPF with valid IPv4

Steps:

1. Enter domain: mycompany . test
2. Enter IPv4: 192.168.1.1
3. Click Generate

Expected Result:

SPF result: v=spf1 ip4:192.168.1.1 ~all

2. Generate SPF with valid IPv6

Steps:

1. Enter domain: mycompany . test
2. Enter IPv6: 2001 :db8 ::1
3. Click Generate

Expected Result:

SPF result: v=spf1 ip6:2001:db8::1 ~all

3. Generate SPF with valid Include

Steps:

1. Enter domain: mycompany . test
2. Enter Include: _spf.google.com
3. Click Generate

Expected Result:

SPF result: v=spf1 include:_spf.google.com ~all

4. Generate SPF with valid A record

Steps:

1. Enter domain: mycompany.test
2. Enter A: google.com
3. Click Generate

Expected Result:

SPF result: v=spf1 a:google.com ~all

5. Generate SPF with valid MX record

Steps:

1. Enter domain: mycompany.test
2. Enter MX: easydmarc.com
3. Click Generate

Expected Result:

SPF result: v=spf1 mx:easydmarc.com ~all

6. Generate SPF with valid Exists

Steps:

1. Enter domain: mycompany.test
2. Enter Exists: %{i}._spf.mta.salesforce.com
3. Click Generate

Expected Result:

SPF result: v=spf1 exists:%{i}._spf.mta.salesforce.com ~all

7. Redirect toggle ON

Steps:

1. Enter domain: mycompany.test
2. Toggle Use Redirect ON
3. Enter Redirect: _spf.google.com
4. Click Generate

Expected Result:

SPF result: v=spf1 redirect=_spf.google.com

8. Redirect toggle OFF after ON

Precondition: Redirect toggle: ON

Steps:

1. Enter domain: mycompany.test
2. Toggle Use Redirect OFF
3. Enter Include: _spf.google.com
4. Click Generate

Expected Result:

SPF result: v=spf1 include:_spf.google.com ~all

9. Invalid IPv4

Steps:

1. Enter domain: mycompany.test
2. Enter IPv4: 300.1.1.1
3. Click Generate

Expected Result:

Error message displayed: "The ip4 mechanism in your SPF record contains an invalid IP address. Make sure the provided value is a valid IP address and update your record accordingly."

10. Invalid IPv6

Steps:

1. Enter domain: mycompany . test
2. Enter IPv6: 12345 ::678
3. Click Generate

Expected Result:

Error message displayed: "The ip6 mechanism in your SPF record contains an invalid IP address. Make sure the provided value is a valid IP address and update your record accordingly."

11. Invalid Include domain

Steps:

1. Enter domain: mycompany . test
2. Enter Include: invalid-domain
3. Click Generate

Expected Result:

Error message displayed: "The ip6 mechanism in your SPF record contains an invalid IP address. Make sure the provided value is a valid IP address and update your record accordingly."

12. Invalid A record

Steps:

1. Enter domain: mycompany . test
2. Enter A: invalid.domain
3. Click Generate

Expected Result:

Error message displayed: "Invalid A domain: "invalid.domain". Make sure the domain has a valid "A" record."

13. Invalid MX record

Steps:

1. Enter domain: mycompany.test
2. Enter MX: invalid.mx.com
3. Click Generate

Expected Result:

Error message displayed: "Invalid MX domain: "invalid.mx.com". Make sure the domain has a valid "MX" record."

14. Empty domain

Steps:

1. Leave domain empty
2. Observe Generate button

Expected Result:

The Generate button is disabled.

15. Copy TXT Value functionality

Steps:

1. Enter domain: mycompany.test
2. Enter IPv4: 192.168.1.1
3. Click Generate
4. Click Copy TXT Value
5. Paste clipboard content somewhere

Expected Result:

Clipboard contains v=spf1 ip4:192.168.1.1 ~all

16. Verify default SPF qualifier is always “~all”

Steps:

1. Enter domain: mycompany.test
2. Add any valid mechanism (e.g., IPv4 192.168.1.1)
3. Click Generate

Expected Result:

SPF result ends with ~all. Example: v=spf1 ip4:192.168.1.1 ~all

17. Verify default “-all” remains even with multiple mechanisms

Steps:

1. Enter domain: mycompany.test
2. Enter:
 - IPv4: 192.168.1.1
 - Include: _spf.google.com
 - MX: easydmarc.com
3. Click Generate

Expected Result:

SPF result: v=spf1 ip4:192.168.1.1 include:_spf.google.com mx:easydmarc.com ~all

18. Combine multiple mechanisms

Steps:

1. Enter domain: mycompany.test
2. Enter IPv4: 192.168.1.1
3. Enter MX: easydmarc.com
4. Enter Include: _spf.google.com
5. Click Generate

Expected Result:

SPF result: v=spf1 ip4:192.168.1.1 mx:easydmarc.com include:_spf.google.com ~all

19. Multiple Includes

Steps:

1. Enter domain: mycompany . test
2. Enter multiple Includes: _spf.google.com, spf.protection.outlook.com, mail.zendesk.com, amazoneses.com (all separately)
3. Click Generate

Expected Result:

SPF result contains all includes. Lookup count: 6/10. Email Senders: 4

20. Empty mechanism fields

Steps:

1. Enter domain: mycompany . test
2. Leave all mechanism fields empty
3. Click Generate

Expected Result:

SPF result: v=spf1 ~all

21. Mix valid + invalid inputs

Steps:

1. Enter domain: mycompany . test
2. Enter IPv4: 192.168.1.1
3. Enter Include: invalid-domain
4. Click Generate

Expected Result:

Error message for Include: "The value in include element should be a valid domain name". IPv4 still included in SPF: v=spf1 ip4:192.168.1.1 include:invalid-domain ~all

22. Redirect toggle + existing includes

Steps:

1. Enter domain: mycompany . test
2. Enter Include: _spf . google . com
3. Toggle Use Redirect ON
4. Click Generate

Expected Result:

Previous includes removed. Error message: "Invalid "redirect" modifier. Make sure the modifier is not empty and contains a valid domain".