

# **Generated FortiManager Ansible Modules Test Report**

**Version 1.0**

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

## Revision History

Date	Version	Description	Author
Nov 19, 2019	1.0	Created	Link Zheng

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

## Table of Contents

<b>1. Introduction.....</b>	<b>5</b>
<b>2. Requirements for Test.....</b>	<b>5</b>
<b>3. Test Strategy .....</b>	<b>5</b>
<b>3.1 Topology Diagram .....</b>	<b>5</b>
<b>3.2 Function Testing .....</b>	<b>7</b>
3.2.1 Device Operations Test .....	8
3.2.2 Device Group Operation Test.....	12
3.2.3 Script Operation Test .....	16
3.2.4 Firewall IPv4 Address Object Test .....	21
3.2.5 Firewall IPv6 Address Object Test .....	25
3.2.6 Firewall IPv4 Ippool Object Test .....	29
3.2.7 Firewall IPv6 Ippool Object Test .....	33
3.2.8 Firewall IPv4 VIP Object Test .....	37
3.2.9 Firewall IPv6 VIP Object Test .....	41
3.2.10 Firewall Policy Package Test.....	45
3.2.11 Firewall IPv4 Policy Test.....	48
3.2.12 Firewall IPv6 Policy Test.....	54
3.2.13 Firewall Service Test.....	54
3.2.14 Security Profile DNS Filter Test .....	58
3.2.15 Security Profile Anti Virus Test .....	62
3.2.16 Security Profile IPS Sensor Test.....	67
3.2.17 Security Profile Web Filter Test .....	71
3.2.18 Security Profile Application Control Test .....	76
3.2.19 Security Profile Group Test.....	80
3.2.20 Security Profile Web Proxy Test.....	84
3.2.21 Security Profile Spam Filter Test .....	88
3.2.22 Security Profile ssl-ssh Test.....	92
3.2.23 Security Profile voip Test.....	97
3.2.24 Security Profile WAF Test.....	102
3.2.25 Security Profile Wanopt Test .....	106
3.2.26 Device Profile Test.....	111
3.2.27 Provisioning Template Test .....	115
3.2.28 [template].....	118
<b>3.3 User Interface Testing .....</b>	<b>119</b>
<b>3.4 Performance Profiling .....</b>	<b>119</b>
<b>3.5 Load Testing .....</b>	<b>119</b>
<b>3.6 Stress Testing .....</b>	<b>119</b>
<b>3.7 Security and Access Control Testing .....</b>	<b>119</b>

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

3.8 Failover and Recovery Testing ..... 119

4. Resources ..... 119

4.1 Workers..... 119

4.2 System Resources..... 119

5. Deliverables ..... 119

6. Appendix A: Sample Full Terraform Settings..... 119

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

## 1. Introduction

The document gives the functional tests result of the major FortiManager components using generated FortiManager ansible modules.

## 2. Requirements for Test

The test requires one Linux host for issuing Ansible playbook and one FortiManager host and one FortiGate host.

## 3. Test Strategy

### 3.1 Topology Diagram

The following diagram shows the network topology.

**Note** this is how my tested looks like, there is no need to follow the exact topology as long as the connectivity between any of them is good.

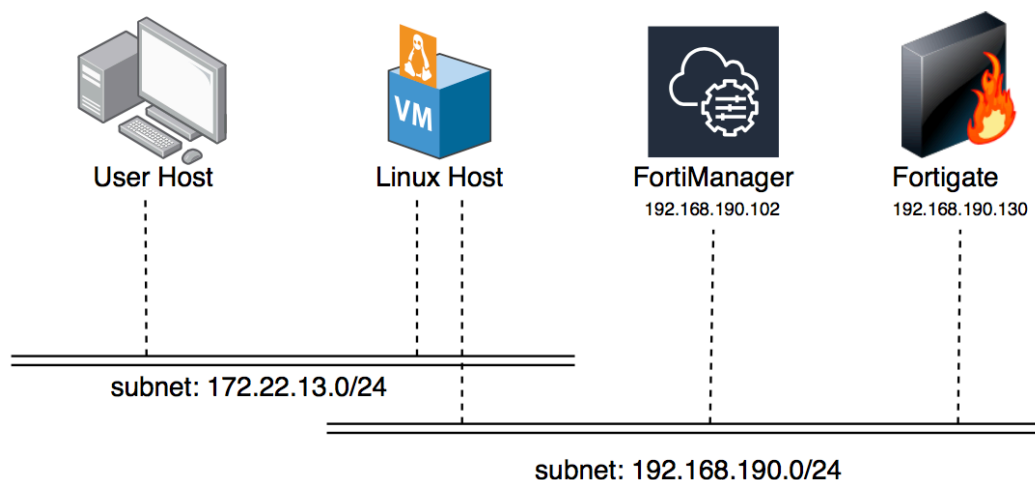


Figure 1 The topology of devices under test

user and password for the devices:

FortiManager: APIUser/Fortinet1!

Fortigate: admin/admin

The Ansible inventory has the FortiManager address and credentials:

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

*Table 1 The ansible inventory of fortimanager*

```
# cat hosts/hosts
[myfortimanagers]
fortimanager01 ansible_host=192.168.190.102
ansible_user=APIUser ansible_password=Fortinet1!

[myfortimanagers:vars]
ansible_network_os=fortimanager
```

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

### 3.2 Function Testing

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

### 3.2.1 Device Operations Test

Test Objective:	<p>Test The Basic operations with FortiManager device</p> <p>Operations include: <b>Add</b>, <b>Install</b> , <b>Get</b> and <b>Delete</b></p>
-----------------	------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li><b>Add a Fortigate Device</b></li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a device'       fmgr_dvm_cmd_add_device:         method: "exec"         params:           - data:               adom: 'root'               device:                 adm_usr: 'admin'                 adm_pass:                   - 'admin'                 desc: 'The Fortigate with IP 192.168.190.130'                 ip: '192.168.190.130'                 os_type: 'fos'                 name: 'FGVM04TM19006963'                 sn: 'FGVM04TM19006963' </pre> <ul style="list-style-type: none"> <li><b>Install a Fortigate device</b></li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'install a device'       fmgr_securityconsole_install_device:         method: "exec"         params:           - data:               adom: 'root'               dev_rev_comments: 'This is to install the FGT device'               scope:                 - name: 'FGVM04TM19006963'                   vdom: 'root' </pre> <ul style="list-style-type: none"> <li><b>Get a Fortigate device</b></li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars: </pre>
------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         adom: "root"         ansible_httpapi_use_ssl: True         ansible_httpapi_validate_certs: False         ansible_httpapi_port: 443       tasks:         - name: 'add a device'           fmgr_dvmdb_device:             method: "get"       </pre> <ul style="list-style-type: none"> <li>• Delete a fortigate device</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a device'       fmgr_dvm_cmd_del_device:         method: "exec"         params:           - data:               adom: 'root'               device: 'FGVM04TM19006963'       </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• device_add.yml</li> <li>• device_delete.yml</li> <li>• device_get.yml</li> <li>• device_install.yml</li> </ul>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ device_add.yml -vvv</code> text in response:  <pre>"device": {   "adm_usr": "admin",   "beta": -1,   "conn_mode": 1,   "desc": "The Fortigate with IP 192.168.190.130",   "dev_status": 1,   "flags": 2097152,   "ip": "192.168.190.130",   "maxvdom": 10,   "mr": -1,   "name": "FGVM04TM19006963",   "os_type": 0,   "os_ver": -1,   "patch": -1,   "platform_id": 111,   "platform_str": "FortiGate-VM",   "sn": "FGVM04TM19006963",   "source": 1,   "tab_status": "&lt;unknown&gt;",   "vm.lic_type": 4,   "vm_lic_expire": 0 }</pre> </li> <li>• <code>ansible-playbook -i hosts/ device_install.yml -vvv</code>  <pre>"response": [   0,   {     "task": 43   } ]</pre> </li> <li>• <code>ansible-playbook -i hosts/ device_get.yml -vvv</code> the full configuration for all devices could be seen in response.</li> <li>• <code>ansible-playbook -i hosts/ device_delete.yml -vvv</code>  <pre>"response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/dvm/cmd/del/device"   } ]</pre> </li> <li>• run <code>device_delete.yml</code> one more time:  <pre>ansible-playbook -i hosts/ device_delete.yml -vvv "response": [   -20002,   {     "status": {       "code": -20002,       "message": "Invalid argument"     },     "url": "/dvm/cmd/del/device"   } ]</pre> </li> </ul>
-------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>     }   ] </pre>
Completion Criteria:	Success
Special Considerations:	

### 3.2.2 Device Group Operation Test

Test Objective:	<p>Test The Basic operations with FortiManager device Group</p> <p>Operations include: <b>Add</b>, <b>Get</b>, <b>Delete</b> and <b>add/delete</b> device member</p>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>• Add a Device Group</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'add a device group'     fmgr_dvmdb_adom_adom_group:       method: 'add'       params:         - data:             - name: 'demo_group'               desc: 'The demo group added'               os_type: 'fos'               type: 'normal'       url_params:         adom: 'root'</pre> <ul style="list-style-type: none"> <li>• Get all device groups</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get the device group'     fmgr_dvmdb_adom_adom_group:       method: 'get'       url_params:         adom: 'root'       params:         - sortings:             - name: 1</pre> <ul style="list-style-type: none"> <li>• Add a device as the member of a device group</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'add a device as a member'     fmgr_dvmdb_adom_adom_group_group:       method: 'add'</pre>
------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> url_params:   adom: 'root'   group: 'demo_group' params:   - data:     - name: 'FGVM04TM19006963'       vdom: 'root' </pre> <ul style="list-style-type: none"> <li>• Delete a device group's device member</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a device member from a device group'       fmgr_dvmdb_adom_adom_group_group:         method: 'delete'         url_params:           adom: 'root'           group: 'demo_group'         params:           - data:             - name: 'FGVM04TM19006963'               vdom: 'root' </pre> <ul style="list-style-type: none"> <li>• Delete a device group</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a device group'       fmgr_dvmdb_adom_adom_group_group:         method: 'delete'         url_params:           adom: 'root'           group: 'demo_group' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• device_group_add_device_member.yml</li> <li>• device_group_add.yml</li> <li>• device_group_delete_device_member.yml</li> <li>• device_group_delete.yml</li> <li>• device_group_get.yml</li> </ul> <p><b>requirements:</b> the device was added to the manager to the FortiManager.</p>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ device_group_add.yml -vvv</code>  <pre>"response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/dvmdb/adom/root/group"   } ]</pre> </li> <li>• <code>ansible-playbook -i hosts/ device_group_get.yml -vvv</code>  <pre>"response": [   0,   [     {       "desc": "",       "name": "All_FortiGate",       "oid": 101,       "os_type": "fos",       "type": "default"     },     {       "desc": "The demo group added",       "name": "demo_group",       "oid": 136,       "os_type": "fos",       "type": "normal"     }   ] ]</pre> </li> <li>• <code>ansible-playbook -i hosts/ device_group_add_device_member.yml -vvv</code></li> <li>• <code>ansible-playbook -i hosts/ device_group_delete_device_member.yml -vvv</code></li> <li>• <code>ansible-playbook -i hosts/ device_group_delete.yml -vvv</code>  <pre>"response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/dvmdb/adom/root/group/demo_group"   } ]</pre> </li> </ul>
Completion Criteria:	Partial success, the group member operations not successful.
Special Considerations:	

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

### 3.2.3 Script Operation Test

Test Objective:	<p>Test The Basic operations with FortiManager scripts</p> <p>Operations include: <b>Add</b>, <b>Set</b>, <b>Get</b>, <b>Eexecute</b> and <b>Delete</b></p> <p>* The difference between <b>Add</b> and <b>Set</b>:</p> <p>Operation Set is an incremental update for the script object and it can be invoked more than once with warnings or errors. Operation Add will report “Object already exists” if the script object indeed exists.</p>
-----------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a script</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a script'       fmgr_dvmdb_script:         method: "add"         params:           - data:               - name: 'add_firewall_policy0'                 desc: 'the demo script to add'                 type: 'cli'                 filter_ostype: 'unknown'                 content:                       config firewall policy                     edit 1                     set name foopolicy                     next                     end </pre> <ul style="list-style-type: none"> <li>Update a script</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a script'       fmgr_dvmdb_script:         method: "set"         params:           - data:               - name: 'add_firewall_policy0'                 desc: 'the demo script to set'                 type: 'cli'                 filter_ostype: 'unknown'                 content:                       config firewall policy                     edit 1                     set name foopolicy                     next                     end </pre> <ul style="list-style-type: none"> <li>Get all the scripts</li> </ul>
------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

```
- hosts: fortimanager01
connection: httpapi
vars:
  adom: "root"
  ansible_httpapi_use_ssl: True
  ansible_httpapi_validate_certs: False
  ansible_httpapi_port: 443
tasks:
  - name: 'fetch all scripts'
    fmgr_dvmdb_script:
      method: 'get'
      params:
        - fields:
            - 'name'
            - 'type'
            - 'desc'
          sortings:
            - name: -1
            - type: 1
            - content: 1
```

- Execute a script

```
- hosts: fortimanager01
connection: httpapi
vars:
  adom: "root"
  ansible_httpapi_use_ssl: True
  ansible_httpapi_validate_certs: False
  ansible_httpapi_port: 443
tasks:
  - name: 'exec a script'
    #Not Able To work: invalid data content
    fmgr_dvmdb_script_execute:
      method: "exec"
      params:
        - workflow:
            adom: 'root'
            package: 'labpolicy'
            script: 'add_firewall_policy0'
            scope:
              - name: 'FGVM04TM19006963'
                vdom: 'root'
```

- Delete a script

```
- hosts: fortimanager01
connection: httpapi
vars:
  adom: "root"
  ansible_httpapi_use_ssl: True
  ansible_httpapi_validate_certs: False
  ansible_httpapi_port: 443
tasks:
  - name: 'delete a script'
```

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>fmgr_dvmdb_script_script:   method: "delete"   url_params:     script: 'add_firewall_policy0'</pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"><li>• script_add.yml</li><li>• script_delete.yml</li><li>• script_execute.yml</li><li>• script_get.yml</li><li>• script_set.yml</li></ul> <p><b>requirements:</b> the device was added to the manager to the FortiManager</p>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ script_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/dvmdb/script"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ script_set.yml -vvv response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/dvmdb/script"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ script_get.yml -vvv "response": [   0,   [     {       "content": "config firewall policy\n  edit 1\n    set name foopolicy\n  next\nend\n",       "desc": "the demo script to set",       "filter_build": -1,       "filter_device": 0,       "filter_hostname": null,       "filter_ostype": "unknown",       "filter_osver": "unknown",       "filter_platform": "",       "filter_serial": null,       "modification_time": "2019-11-19 08:57:48",       "name": "add_firewall_policy0",       "oid": 136,       "script_schedule": null,       "target": "device_database",       "type": "cli"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ script_execute.yml -vvv "response": [   -10,   {     "status": {       "code": -10,       "message": "The data is invalid for selected url"     },   }, ] </pre> </li> </ul>
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         "url": "/dvmdb/script/execute"       }     ]   • ansible-playbook -i hosts/ script_delete.yml -vvv     "response": [       0,       {         "status": {           "code": 0,           "message": "OK"         },         "url": "/dvmdb/script/add_firewall_policy0"       }     ]   • run it one more time:     ansible-playbook -i hosts/ script_delete.yml -vvv     {       "status": {         "code": -3,         "message": "Object does not exist"       },       "url": "/dvmdb/script/add_firewall_policy0"     } </pre>
Completion Criteria:	Partial success, the operation to execute a script not successful.
Special Considerations:	

### 3.2.4 Firewall IPv4 Address Object Test

Test Objective:	Test The Basic operations with FortiManager Address Objects Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	----------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall ipv4 address object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add an ipv4 address'       fmgr_pm_config_adom_adom_obj_firewall_address:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv4_address_object0'                 comment: 'An ipv4 address object created by Ansible'                 type: 'ipmask'                 subnet: '11.22.33.44/24' </pre> <ul style="list-style-type: none"> <li>Update a firewall ipv4 address object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update an ipv4 address object'       fmgr_pm_config_adom_adom_obj_firewall_address:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv4_address_object0'                 comment: 'An ipv4 address object updated by Ansible'                 type: 'ipmask'                 subnet: '11.22.33.45/24' </pre> <ul style="list-style-type: none"> <li>Get the address object using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False </pre>
------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_port: 443 tasks:   - name: 'get an ipv4 address'     fmgr_pm_config_adom_adom_obj_firewall_address:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'firewall_ipv4_address_object0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall ipv4 address object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete an ipv4 address'       fmgr_pm_config_adom_adom_obj_firewall_address_address:         method: 'delete'         url_params:           adom: 'root'           address: 'firewall_ipv4_address_object0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_address_add.yml</li> <li>• firewall_address_delete.yml</li> <li>• firewall_address_get.yml</li> <li>• firewall_address_update.yml</li> </ul>
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ firewall_address_add.yml -vvv</code>  <pre>"response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/address"   } ]</pre> </li> <li>• <code>ansible-playbook -i hosts/ firewall_address_update.yml -vvv</code>  <pre>"ansible_module_results": {   "status": {     "code": 0,     "message": "OK"   },   "url": "/pm/config/adom/root/obj/firewall/address" }</pre> </li> <li>• <code>ansible-playbook -i hosts/ firewall_address_get.yml -vvv</code>  <pre>"results": [   {     "allow-routing": "disable",     "associated-interface": [       "any"     ],     "color": 0,     "comment": "An ipv4 address object updated by Ansible",     "dynamic_mapping": null,     "list": null,     "name": "firewall_ipv4_address_object0",     "subnet": [       "11.22.33.0",       "255.255.255.0"     ],     "tagging": null,     "type": "ipmask",     "uuid": "3b305a2c-0af9-51ea-810d-6d563981915b",     "visibility": "enable"   } ]</pre> </li> <li>• <code>ansible-playbook -i hosts/ firewall_address_delete.yml -vvv</code>  <pre>"response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/address/firewall_ipv4_address_obj ect0"   } ]</pre> </li> </ul>
-------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Completion Criteria:	success.
Special Considerations:	

### 3.2.5 Firewall IPv6 Address Object Test

Test Objective:	Test The Basic operations with FortiManager IPv6 Address Objects Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall ipv6 address object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add an ipv6 address object'       fmgr_pm_config_adom_adom_obj_firewall_address6:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv6_address_object0'                 comment: 'An ipv6 address object created by Ansible'                 type: 'ipprefix'                 ip6: '2001:0db8:85a3:0000:0000:8a2e:0370:7334' </pre> <ul style="list-style-type: none"> <li>Update a firewall ipv6 address object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add an ipv6 address object'       fmgr_pm_config_adom_adom_obj_firewall_address6:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv6_address_object0'                 comment: 'An ipv6 address object updated by Ansible'                 type: 'ipprefix'                 ip6: '2001:0db8:85a3:0000:0000:8a2e:0370:7335' </pre> <ul style="list-style-type: none"> <li>Get the ipv6 address object using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars: </pre>
------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         adom: "root"         ansible_httpapi_use_ssl: True         ansible_httpapi_validate_certs: False         ansible_httpapi_port: 443       tasks:         - name: 'get an ipv6 address object'           fmgr_pm_config_adom_adom_obj_firewall_address6:             method: 'get'             url_params:               adom: 'root'             params:               - filter:                   - 'name'                   - '=='                   - 'firewall_ipv6_address_object0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall ipv6 address object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete an ipv6 address object'       fmgr_pm_config_adom_adom_obj_firewall_address6_address6:         method: 'delete'         url_params:           adom: 'root'           address6: 'firewall_ipv6_address_object0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_address_ipv6_add.yml</li> <li>• firewall_address_ipv6_delete.yml</li> <li>• firewall_address_ipv6_get.yml</li> <li>• firewall_address_ipv6_update.yml</li> </ul>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_address_ipv6_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/address6"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_address_ipv6_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/address6"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_address_ipv6_get.yml -vvv "response": [   0,   [     {       "cache-ttl": 0,       "color": 0,       "comment": "An ipv6 address object updated by Ansible",       "dynamic_mapping": null,       "end-ip": "::",       "host": "::",       "host-type": "any",       "ip6": "2001:db8:85a3::8a2e:370:7335/128",       "list": null,       "name": "firewall_ipv6_address_object0",       "start-ip": "::",       "subnet-segment": null,       "tagging": null,       "template": [],       "type": "ipprefix",       "uuid": "061e0e0a-0ba4-51ea-7e63-16a3ecef090e",       "visibility": "enable"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_address_ipv6_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     }   } ] </pre> </li> </ul>
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         },         "url":         "/pm/config/adom/root/obj/firewall/address6/firewall_ipv6_address_o         bject0"       }     ]   • run it one more time to make sure it indeed is deleted.   ansible-playbook -i hosts/ firewall_address_ipv6_delete.yml -vvv   "status": {     "code": -3,     "message": "Object does not exist"   } </pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.6 Firewall IPv4 Ippool Object Test

Test Objective:	Test The Basic operations with FortiManager IPv4 Ippool Objects Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall ipv4 ippool object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add an ipv4 ippool'       fmgr_pm_config_adom_adom_obj_firewall_ippool:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv4_ippool_object0'                 comments: 'An ipv4 ippool object created by Ansible'                  type: 'one-to-one'                 startip: '192.168.190.100'                 endip: '192.168.190.250'                 arp-reply: 'enable' </pre> <ul style="list-style-type: none"> <li>Update a firewall ipv4 ippool object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update an ipv4 ippool'       fmgr_pm_config_adom_adom_obj_firewall_ippool:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv4_ippool_object0'                 comments: 'An ipv4 ippool object updated by Ansible'                  type: 'one-to-one'                 startip: '192.168.190.110'                 endip: '192.168.190.150'                 arp-reply: 'disable' </pre> <ul style="list-style-type: none"> <li>Get the ipv4 ippool object using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi </pre>
------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get an ipv4 ippool'     fmgr_pm_config_adom_adom_obj_firewall_ippool:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'firewall_ipv4_ippool_object0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall ipv4 ippool object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete an ipv4 ippool'       fmgr_pm_config_adom_adom_obj_firewall_ippool_ippool:         method: 'delete'         url_params:           adom: 'root'           ippool: 'firewall_ipv4_ippool_object0' </pre> <p>bject0'</p> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_ippool_add.yml</li> <li>• firewall_ippool_delete.yml</li> <li>• firewall_ippool_get.yml</li> <li>• firewall_ippool_update.yml</li> </ul>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ippool"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ippool"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_get.yml -vvv "response": [   0,   [     {       "arp-intf": [],       "arp-reply": "disable",       "associated-interface": [],       "comments": "An ipv4 ippool object updated by Ansible",       "dynamic_mapping": null,       "endip": "192.168.190.150",       "name": "firewall_ipv4_ippool_object0",       "startip": "192.168.190.110",       "type": "one-to-one"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ippool/firewall_ipv4_ippool_objec t0"   } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ firewall_ippool_delete.yml -vvv </pre> </li> </ul>
-------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>"status": {   "code": -3,   "message": "Object does not exist" }</pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.7 Firewall IPv6 Ippool Object Test

Test Objective:	Test The Basic operations with FortiManager IPv6 Ippool Objects Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall ipv6 ippool object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add an ipv6 ippool'       fmgr_pm_config_adom_adom_obj_firewall_ippool6:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv6_ippool_object0'                 comments: 'An ipv6 ippool object created by Ansible'                 startip: '2001:0db8:85a3:0000:0000:8a2e:0370:1000'                 endip: '2001:0db8:85a3:0000:0000:8a2e:0370:3333' </pre> <ul style="list-style-type: none"> <li>Update a firewall ipv6 ippool object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update an ipv6 ippool'       fmgr_pm_config_adom_adom_obj_firewall_ippool6:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_ipv6_ippool_object0'                 comments: 'An ipv6 ippool object updated by Ansible'                 startip: '2001:0db8:85a3:0000:0000:8a2e:0370:2222'                 endip: '2001:0db8:85a3:0000:0000:8a2e:0370:3333' </pre> <ul style="list-style-type: none"> <li>Get the ipv6 ippool object using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi </pre>
------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get an ipv6 ippool'     fmgr_pm_config_adom_adom_obj_firewall_ippool6:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'firewall_ipv6_ippool_object0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall ipv6 ippool object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete an ipv6 ippool'       fmgr_pm_config_adom_adom_obj_firewall_ippool6_ippool6:         method: 'delete'         url_params:           adom: 'root'           ippool6: 'firewall_ipv6_ippool_object0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_ippool_ipv6_add.yml</li> <li>• firewall_ippool_ipv6_delete.yml</li> <li>• firewall_ippool_ipv6_get.yml</li> <li>• firewall_ippool_ipv6_update.yml</li> </ul>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_ipv6_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ippool6"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_ipv6_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ippool6"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_ipv6_get.yml -vvv "response": [   0,   [     {       "comments": "An ipv6 ippool object updated by Ansible",       "dynamic_mapping": null,       "endip": "2001:db8:85a3::8a2e:370:3333",       "name": "firewall_ipv6_ippool_object0",       "startip": "2001:db8:85a3::8a2e:370:2222"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_ippool_ipv6_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ippool6/firewall_ipv6_ippool_obj ect0"   } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ firewall_ippool_ipv6_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Completion Criteria:	success.
Special Considerations:	

### 3.2.8 Firewall IPv4 VIP Object Test

Test Objective:	Test The Basic operations with FortiManager Firewall VIP Objects Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall vip object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add firewall vip object'       fmgr_pm_config_adom_adom_obj_firewall_vip:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_vip_object0'                 comment: 'A firewall vip object created by Ansible'                 arp-reply: 'enable' </pre> <ul style="list-style-type: none"> <li>Update a firewall vip object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update firewall vip object'       fmgr_pm_config_adom_adom_obj_firewall_vip:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_vip_object0'                 comment: 'A firewall vip object updated by Ansible'                 arp-reply: 'disable'                 type: 'static-nat'                 color: 2                 weblogic-server: 'disable'                 extintf: 'port1' </pre> <ul style="list-style-type: none"> <li>Get the firewall vip object using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root" </pre>
------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_use_ssl: True ansible_httpapi_validate_certs: False ansible_httpapi_port: 443 tasks:   - name: 'get firewall vip object'     fmgr_pm_config_adom_adom_obj_firewall_vip:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'firewall_vip_object0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall vip object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a firewall vip object'       fmgr_pm_config_adom_adom_obj_firewall_vip_vip:         method: 'delete'         url_params:           adom: 'root'           vip: 'firewall_vip_object0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_vip_add.yml</li> <li>• firewall_vip_delete.yml</li> <li>• firewall_vip_get.yml</li> <li>• firewall_vip_update.yml</li> </ul>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_vip_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/vip"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_vip_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/vip"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_vip_get.yml -vvv "response": [   0,   [     {       "_if_no_default": 0,       "arp-reply": "disable",       "color": 2,       "comment": "A firewall vip object updated by Ansible",       "dns-mapping-ttl": 0,       "dynamic_mapping": null,       "extaddr": [],       "extintf": [         "port1"       ],       "extip": [         "0.0.0.0"       ],       "gratuitous-arp-interval": 0,       "id": 0,       "mappedip": [],       "name": "firewall_vip_object0",       "nat-source-vip": "disable",       "obj seq": 1,       "portforward": "disable",       "realserver": null,       "service": [],       "src-filter": [],       "srcintf-filter": [],       "ssl-cipher-suites": null,       "ssl-client-fallback": "enable",       "ssl-server-algorithm": "client", </pre> </li> </ul>
-------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "ssl-server-cipher-suites": null, "ssl-server-max-version": "client", "ssl-server-min-version": "client", "type": "static-nat", "uuid": "8580930c-0c49-51ea-3a21-376c9eff5f05"     }   ] ] </pre> <ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ firewall_vip_delete.yml -vvv</code>  <pre> "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url":       "/pm/config/adom/root/obj/firewall/vip/firewall_vip_object0"   } ] </pre> </li> <li>• run it one more time to make sure it indeed is deleted.  <pre> ansible-playbook -i hosts/ firewall_vip_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.9 Firewall IPv6 VIP Object Test

Test Objective:	Test The Basic operations with FortiManager Firewall IPv6 VIP Objects Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall IPv6 vip object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add firewall IPv6 vip object'       fmgr_pm_config_adom_adom_obj_firewall_vip6:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_vip_ipv6_object0'                 comment: 'A firewall IPv6 vip object created by Ansible'               arp-reply: 'enable' </pre> <ul style="list-style-type: none"> <li>Update a firewall IPv6 vip object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update firewall IPv6 vip object'       fmgr_pm_config_adom_adom_obj_firewall_vip6:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'firewall_vip_ipv6_object0'                 comment: 'A firewall IPv6 vip object updated by Ansible' </pre> <ul style="list-style-type: none"> <li>Get the firewall IPv6 vip object using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'get firewall IPv6 vip object' </pre>
------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> fmgr_pm_config_adom_adom_obj_firewall_vip6:   method: 'get'   url_params:     adom: 'root'   params:     - filter:       - 'name'       - '=='       - 'firewall_vip_ipv6_object0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall vip object</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete firewall IPv6 vip object'       fmgr_pm_config_adom_adom_obj_firewall_vip6_vip6:         method: 'delete'         url_params:           adom: 'root'           vip6: 'firewall_vip_ipv6_object0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_vip_ipv6_add.yml</li> <li>• firewall_vip_ipv6_delete.yml</li> <li>• firewall_vip_ipv6_get.yml</li> <li>• firewall_vip_ipv6_update.yml</li> </ul>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_vip_ipv6_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/vip6"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_vip_ipv6_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/vip6"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_vip_ipv6_get.yml -vvv "response": [   0,   [     {       "if_no_default": 0,       "arp-reply": "enable",       "color": 0,       "comment": "A firewall IPv6 vip object updated by Ansible",       "dynamic_mapping": null,       "extip": [         "::"       ],       "extport": "0",       "http-cookie-age": 60,       "http-cookie-domain-from-host": "disable",       "http-cookie-generation": 0,       "http-cookie-share": "same-ip",       "http-ip-header": "disable",       "http-multiplex": "disable",       "https-cookie-secure": "disable",       "id": 0,       "ldb-method": "static",       "mappedip": [         "::"       ],       "mappedport": "0",       "max-embryonic-connections": 1000,       "name": "firewall_vip_ipv6_object0",       "outlook-web-access": "disable",       "persistence": "none", </pre> </li> </ul>
-------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "portforward": "disable", "protocol": "tcp", "realservers": null, "src-filter": [], "ssl-cipher-suites": null, "ssl-client-fallback": "enable", "ssl-hsts": "disable", "ssl-hsts-age": 5184000, "ssl-hsts-include-subdomains": "disable", "ssl-http-location-conversion": "disable", "ssl-server-algorithm": "client", "ssl-server-cipher-suites": null, "ssl-server-max-version": "client", "ssl-server-min-version": "client", "ssl-server-session-state-type": "both", "type": "static-nat", "uuid": "3fc2aeb0-0c51-51ea-5207-b67a3d8e7274", "weblogic-server": "disable", "websphere-server": "disable" } ] ] </pre> <ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_vip_ipv6_delete.yml -vvv "response": [ 0, { "status": { "code": 0, "message": "OK" }, "url": "/pm/config/adom/root/obj/firewall/vip6/firewall_vip_ipv6_object0" } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ firewall_vip_ipv6_delete.yml -vvv "status": { "code": -3, "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.10 Firewall Policy Package Test

Test Objective:	Test The Basic operations with FortiManager Policy Packages Operations include: <b>Add</b> , <b>Get</b> and <b>Delete</b>
-----------------	------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>• Add a firewall package</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'add a firewall package'     fmgr_pm_pkg_adom_adom:       method: 'add'       url_params:         adom: 'root'       params:         - data:             - name: 'testpackage0'               'obj ver': 1               type: 'pkg'</pre> <ul style="list-style-type: none"> <li>• Get all the firewall packages (no filters can be applied)</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get a firewall package'     fmgr_pm_pkg_adom_adom:       method: 'get'       url_params:         adom: 'root'</pre> <ul style="list-style-type: none"> <li>• Delete a firewall package</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'delete a firewall package'     fmgr_pm_pkg_adom_adom_pkg_path:       method: 'delete'       url_params:         adom: 'root'       pkg_path: 'testpackage0'</pre>
------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<b>the playbooks list:</b> <ul style="list-style-type: none"> <li>firewall_package_add.yml</li> <li>firewall_package_delete.yml</li> <li>firewall_package_get.yml</li> </ul>
Validation:	<ul style="list-style-type: none"> <li>ansible-playbook -i hosts/ firewall_package_add.yml -vvv  "response": [ 0, { "status": { "code": 0, "message": "OK" } }, "url": "/pm/pkg/adom/root" ] ] </li> <li>ansible-playbook -i hosts/ firewall_package_get.yml -vvv  One item in response: { "name": "testpackage0", "obj ver": 4, "oid": 1342, "package settings": { "central-nat": "disable", "fwpolicy-implicit-log": "disable", "fwpolicy6-implicit-log": "disable", "inspection-mode": "enable", "ngfw-mode": "disable" }, "type": "pkg" } </li> <li>ansible-playbook -i hosts/ firewall_package_delete.yml -vvv  "response": [ 0, { "status": { "code": 0, "message": "OK" } }, "url": "/pm/pkg/adom/root/testpackage0" ] ] </li> <li>run it one more time to make sure it indeed is deleted.  ansible-playbook -i hosts/ firewall_package_delete.yml -vvv  "status": { "code": -3, "message": "Object does not exist" } </li> </ul>
Completion Criteria:	success.

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Special Considerations:	
-------------------------	--

### 3.2.11 Firewall IPv4 Policy Test

Test Objective:	Test The Basic operations with FortiManager IPv4 Policy Operations include: <b>Add,Update(Set), Get and Delete</b>
-----------------	-----------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall IPv4 policy</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     package: 'testpackage0'     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'prerequisite: add a firewall package'       fmgr_pm_pkg_adom_adom:         method: 'add'         url_params:           adom: "{{ adom }}"         params:           - data:               - name: "{{ package }}"                 'obj ver': 1                 type: 'pkg'     - name: 'Add an IPv4 firewall policy'       fmgr_pm_config_adom_adom_pkg_pkg_firewall_policy:         method: 'add'         url_params:           adom: "{{ adom }}"           pkg: "{{ package }}"         params:           - data:               - name: 'firewall_ipv4_policy0'                 srcintf: 'port1'                 srcaddr: 'all'                 dstintf: 'port1'                 dstaddr: 'all'                 action: 'accept'                 service: 'ALL'                 schedule: 'always'                 comments: 'An IPv4 policy created by ansible' </pre> <ul style="list-style-type: none"> <li>Update a firewall IPv4 policy</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     package: 'testpackage0'     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Update an IPv4 firewall policy' </pre>
------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> fmgr_pm_config_adom_adom_pkg_pkg_firewall_policy:   method: 'update'   url_params:     adom: "{{ adom }}"     pkg: "{{ package }}"   params:     - data:         # Identifying a policy is via policy_id, not name         # To get the policy of the policy we just created just now,         # invoke firewall_policy_get.yml     - policyid: &lt; PolicyID &gt;       name: 'firewall_ipv4_policy0'       srcintf: 'port1'       srcaddr: 'all'       dstintf: 'port1'       dstaddr: 'all'       action: 'accept'       service: 'ALL'       schedule: 'always'       comments: 'An IPv4 policy updated by ansible' </pre>
	<ul style="list-style-type: none"> <li>• Get a firewall IPv4 policy using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     package: 'testpackage0'     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Get an IPv4 firewall policy'       fmgr_pm_config_adom_adom_pkg_pkg_firewall_policy:         method: 'get'         url_params:           adom: "{{ adom }}"           pkg: "{{ package }}"         params:           - filter:               - 'name'               - '=='               - 'firewall_ipv4_policy0' </pre>
	<ul style="list-style-type: none"> <li>• Delete a firewall package</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     package: 'testpackage0'     ansible_httpapi use ssl: True </pre>

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_validate_certs: False ansible_httpapi_port: 443 tasks:   - name: 'Delete an IPv4 firewall policy'     fmgr_pm_config_adom_adom_pkg_pkg_firewall_policy_policy:       method: 'delete'       url_params:         adom: "{{ adom }}"         pkg: "{{ package }}"         # looks like the policy is actually the policy ID.         policy: &lt;PolicyID&gt;   - name: 'purge the package container'     fmgr_pm_pkg_adom_adom_pkg_path:       method: 'delete'       url_params:         adom: '{{ adom }}'         pkg_path: '{{ package }}' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_policy_add.yml</li> <li>• firewall_policy_delete.yml</li> <li>• firewall_policy_get.yml</li> <li>• firewall_policy_update.yml</li> </ul> <p><b>Prerequisites:</b>  * for all the policy API, a package name is required as a parameter in url.</p>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ firewall_policy_add.yml -vvv</code> the response returns the policyID which we created. "response": [ <ul style="list-style-type: none"> <li>0,</li> <li>{ <ul style="list-style-type: none"> <li>"policyid": 5</li> </ul> </li> </ul> ]</li> <li>• <code>ansible-playbook -i hosts/ firewall_policy_update.yml -vvv</code> "response": [ <ul style="list-style-type: none"> <li>0,</li> <li>{ <ul style="list-style-type: none"> <li>"policyid": 5</li> </ul> </li> </ul> ]</li> <li>• <code>ansible-playbook -i hosts/ firewall_policy_get.yml -vvv</code> "response": [ <ul style="list-style-type: none"> <li>0,</li> <li>[ <ul style="list-style-type: none"> <li>{ <ul style="list-style-type: none"> <li>"_byte": 0,</li> <li>"_first_hit": 0,</li> <li>"_first_session": 0,</li> <li>"_global-vpn": [],</li> <li>"_hitcount": 0,</li> <li>"_last_hit": 0,</li> <li>"_last_session": 0,</li> <li>"_pkts": 0,</li> <li>"_sesscount": 0,</li> <li>"action": "accept",</li> <li>"app-group": [],</li> <li>"auto-asic-offload": "enable",</li> <li>"block-notification": "disable",</li> <li>"captive-portal-exempt": "disable",</li> <li>"capture-packet": "disable",</li> <li>"comments": "An IPv4 policy updated by ansible",</li> <li>"custom-log-fields": [],</li> <li>"delay-tcp-npu-session": "disable",</li> <li>"devices": [],</li> <li>"diffserv-forward": "disable",</li> <li>"diffserv-reverse": "disable",</li> <li>"disclaimer": "disable",</li> <li>"dnsfilter-profile": [],</li> <li>"dscp-match": "disable",</li> <li>"dscp-negate": "disable",</li> <li>"dscp-value": "000000",</li> <li>"dsri": "disable",</li> <li>"dstaddr": [ <ul style="list-style-type: none"> <li>"all"</li> </ul> </li> </ul> </li> </ul> ],</li> <li>"dstaddr-negate": "disable",</li> <li>"dstintf": [ <ul style="list-style-type: none"> <li>"port1"</li> </ul> </li> </ul> ]</li> </ul>
-------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "fsso-agent-for-ntlm": [], "groups": [], "internet-service": "disable", "internet-service-src": "disable", "internet-service-src-custom": [], "internet-service-src-id": [], "internet-service-src-negate": "disable", "learning-mode": "disable", "logtraffic": "utm", "logtraffic-start": "disable", "match-vip": "disable", "name": "firewall_ipv4_policy0", "nat": "disable", "natip": [     "0.0.0.0",     "0.0.0.0" ], "np-acceleration": "enable", "obj seq": 1, "per-ip-shaper": [], "permit-any-host": "disable", "policyid": 5, "profile-protocol-options": [     "default" ], "profile-type": "single", "radius-mac-auth-bypass": "disable", "replacemsg-override-group": [], "rtp-nat": "disable", "scan-botnet-connections": "disable", "schedule": [     "always" ], "schedule-timeout": "disable", "service": [     "ALL" ], "service-negate": "disable", "session-ttl": 0, "srcaddr": [     "all" ], "srcaddr-negate": "disable", "srcintf": [     "port1" ], "ssl-mirror": "disable", "ssl-mirror-intf": [], "status": "enable", "tcp-mss-receiver": 0, "tcp-mss-sender": 0, "tcp-session-without-syn": "disable", "timeout-send-rst": "disable", "traffic-shaper": [], </pre>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "traffic-shaper-reverse": [], "users": [], "utm-status": "disable", "uuid": "4178e834-0c81-51ea-2b58-bc217e0a3aab", "vlan-cos-fwd": 255, "vlan-cos-rev": 255, "vpn_dst_node": null, "vpn_src_node": null, "waf-profile": [], "wanopt": "disable", "wccp": "disable", "webcache": "disable", "webcache-https": "disable" } ] ] </pre> <ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ firewall_policy_delete.yml -vvv</code></li> </ul> <pre> "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url":       "/pm/config/adom/root/pkg/testpackage0/firewall/policy/7"   } ] </pre>
Completion Criteria:	success. The <b>Update</b> and <b>Get</b> operations require the <b>policy ID</b> which is generated as an integer when the policy is created.
Special Considerations:	

### 3.2.12 Firewall IPv6 Policy Test

The IPv6 Ansible module: `fmgr_pm_config_adom_adom_pkg_pkg_firewall_policy6` and `fmgr_pm_config_adom_adom_pkg_pkg_firewall_policy6_policy6`.

The IPv6 policies don't display on the UI.

### 3.2.13 Firewall Service Test

Test Objective:	Test The Basic operations with FortiManager Firewall Service Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall service</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Add a firewall service'       fmgr_pm_config_adom_adom_obj_firewall_service_custom:         method: 'add'         url_params:           adom: "{{ adom }}"         params:           - data:               - name: 'firewall_demo_service0'                 comment: 'An Firewall Service created by Ansible'                  protocol: 'TCP/UDP/SCTP'                 tcp-portrange: '55-87' </pre> <ul style="list-style-type: none"> <li>Update a firewall service</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Update a firewall service'       fmgr_pm_config_adom_adom_obj_firewall_service_custom:         method: 'update'         url_params:           adom: "{{ adom }}"         params:           - data:               - name: 'firewall_demo_service0'                 comment: 'An Firewall Service updated by Ansible'                  protocol: 'TCP/UDP/SCTP'                 tcp-portrange: '66-88' </pre> <ul style="list-style-type: none"> <li>Get a firewall service using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False </pre>
------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_port: 443 tasks:   - name: 'get a firewall service'     fmgr_pm_config_adom_adom_obj_firewall_service_custom:       method: 'get'       url_params:         adom: "{{ adom }}"       params:         - filter:             - 'name'             - '=='             - 'firewall_demo_service0' </pre> <ul style="list-style-type: none"> <li>• Delete a firewall service</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a firewall service'  fmgr_pm_config_adom_adom_obj_firewall_service_custom_custom:   method: 'delete'   url_params:     adom: "{{ adom }}"     custom: 'firewall_demo_service0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• firewall_service_add.yml</li> <li>• firewall_service_delete.yml</li> <li>• firewall_service_get.yml</li> <li>• firewall_service_update.yml</li> </ul>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li>           ansible-playbook -i hosts/ firewall_service_add.yml -vvv            "response": [             0,             {               "status": {                 "code": 0,                 "message": "OK"               },               "url": "/pm/config/adom/root/obj/firewall/service/custom"             }           ]         </li> <li>           ansible-playbook -i hosts/ firewall_service_update.yml -vvv            "response": [             0,             {               "status": {                 "code": 0,                 "message": "OK"               },               "url": "/pm/config/adom/root/obj/firewall/service/custom"             }           ]         </li> <li>           ansible-playbook -i hosts/ firewall_service_get.yml -vvv            "response": [             0,             [               {                 "app-category": [],                 "app-service-type": "disable",                 "application": [],                 "category": [],                 "check-reset-range": "default",                 "color": 0,                 "comment": "An Firewall Service updated by Ansible",                 "helper": "auto",                 "iprange": "0.0.0.0",                 "name": "firewall_demo_service0",                 "obj seq": 89,                 "protocol": "TCP/UDP/SCTP",                 "proxy": "disable",                 "sctp-portrange": [],                 "session-ttl": 0,                 "tcp-halfclose-timer": 0,                 "tcp-halfopen-timer": 0,                 "tcp-portrange": [                   "66-88"                 ],                 "tcp-timewait-timer": 0,                 "udp-idle-timer": 0,                 "udp-portrange": [],                 "visibility": "enable"               }             ]           ]         </li> </ul>
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ firewall_service_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/service/custom/firewall_demo_ser vice0"   } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ firewall_service_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.14 Security Profile DNS Filter Test

Test Objective:	Test The Basic operations with FortiManager Security Profile DNS Filter Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>• Add a security profile DNS Filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile dns filter entry'       fmgr_pm_config_adom_adom_obj_dnsfilter_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_dns_filter0'                 comment: 'A security profile dns filter created by Ansible'               block-action: 'block'               safe-search: 'enable' </pre> <ul style="list-style-type: none"> <li>• Update a security profile DNS Filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a security profile dns filter entry'       fmgr_pm_config_adom_adom_obj_dnsfilter_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_dns_filter0'                 comment: 'A security profile dns filter updated by Ansible'               block-action: 'block'               safe-search: 'disable' </pre> <ul style="list-style-type: none"> <li>• Get a security profile DNS Filter using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False </pre>
------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_port: 443 tasks:   - name: 'get a security profile dns filter entry'     fmgr_pm_config_adom_adom_obj_dnsfilter_profile:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'secprof_dns_filter0' </pre> <ul style="list-style-type: none"> <li>• Delete a security profile DNS Filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile dns filter entry'       fmgr_pm_config_adom_adom_obj_dnsfilter_profile_profile:         method: 'delete'         url_params:           adom: 'root'           profile: 'secprof_dns_filter0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_dnsfilter_add.yml</li> <li>• secprof_dnsfilter_delete.yml</li> <li>• secprof_dnsfilter_get.yml</li> <li>• secprof_dnsfilter_update.yml</li> </ul>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_dnsfilter_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/dnsfilter/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_dnsfilter_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/dnsfilter/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_dnsfilter_get.yml -vvv "response": [   0,   [     {       "block-action": "block",       "block-botnet": "disable",       "comment": "A security profile dns filter updated by Ansible",       "domain-filter": {         "domain-filter-table": 0       },       "external-ip-blocklist": [],       "ftgd-dns": {         "filters": null,         "options": null       },       "log-all-domain": "disable",       "name": "secprof_dns_filter0",       "redirect-portal": "0.0.0.0",       "safe-search": "disable",       "sdns-domain-log": "enable",       "sdns-ftgd-err-log": "enable",       "youtube-restrict": "strict"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_dnsfilter_delete.yml -vvv "response": [   0,   {     "status": { </pre> </li> </ul>
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         "code": 0,         "message": "OK"       },       "url":         "/pm/config/adom/root/obj/dnsfilter/profile/secprof_dns_filter0"       }     ]   • run it one more time to make sure it indeed is deleted.     ansible-playbook -i hosts/ secprof_dnsfilter_delete.yml -vvv     "status": {       "code": -3,       "message": "Object does not exist"     } </pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.15 Security Profile Anti Virus Test

Test Objective:	Test The Basic operations with FortiManager Security Profile Anti-Virus Operations include: <b>Add,Update(Set), Get and Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add an antivirus security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile anti-virus entry'       fmgr_pm_config_adom_adom_obj_antivirus_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_anti_virus0'                 comment: 'A security profile anti virus entry created by Ansible'             inspection-mode: 'proxy' </pre> <ul style="list-style-type: none"> <li>Update an antivirus security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Update a security profile anti-virus entry'       fmgr_pm_config_adom_adom_obj_antivirus_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_anti_virus0'                 comment: 'A security profile anti virus entry updated by Ansible'             inspection-mode: 'flow-based' </pre> <ul style="list-style-type: none"> <li>Get an antivirus security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks: </pre>
------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> -   name: 'get a security profile anti-virus entry'     fmgr_pm_config_adom_adom_obj_antivirus_profile:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'secprof_anti_virus0' </pre> <ul style="list-style-type: none"> <li>• Delete an antivirus security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile anti-virus entry'       fmgr_pm_config_adom_adom_obj_antivirus_profile_profile:         method: 'delete'         url_params:           adom: 'root'           profile: 'secprof_anti_virus0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_antivirus_add.yml</li> <li>• secprof_antivirus_delete.yml</li> <li>• secprof_antivirus_get.yml</li> <li>• secprof_antivirus_update.yml</li> </ul>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_antivirus_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/antivirus/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_antivirus_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/antivirus/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_antivirus_get.yml -vvv "response": [   0,   [     {       "analytics-db": "disable",       "av-block-log": "enable",       "av-virus-log": "enable",       "comment": "A security profile anti virus entry updated by Ansible",       "content-disarm": {         "cover-page": "enable",         "detect-only": "disable",         "office-embed": "enable",         "office-hylink": "enable",         "office-linked": "enable",         "office-macro": "enable",         "original-file-destination": "discard",         "pdf-act-form": "enable",         "pdf-act-gotor": "enable",         "pdf-act-java": "enable",         "pdf-act-launch": "enable",         "pdf-act-movie": "enable",         "pdf-act-sound": "enable",         "pdf-embedfile": "enable",         "pdf-hyperlink": "enable",         "pdf-javacode": "enable"       },       "extended-log": "disable",       "ftgd-analytics": "disable",       "ftp": {         "archive-block": null, </pre> </li> </ul>
-------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "archive-log": null, "emulator": "enable", "options": null, "outbreak-prevention": "disabled" }, "http": { "archive-block": null, "archive-log": null, "content-disarm": "disable", "emulator": "enable", "options": null, "outbreak-prevention": "disabled" }, "imap": { "archive-block": null, "archive-log": null, "content-disarm": "disable", "emulator": "enable", "executables": "default", "options": null, "outbreak-prevention": "disabled" }, "inspection-mode": "flow-based", "map": null, "mobile-malware-db": "enable", "nac-quar": { "expiry": "5m", "infected": "none", "log": "disable" }, "name": "secprof_anti_virus0", "ntp": null, "pop3": { "archive-block": null, "archive-log": null, "content-disarm": "disable", "emulator": "enable", "executables": "default", "options": null, "outbreak-prevention": "disabled" }, "replacemsg-group": [], "scan-mode": "full", "smb": { "archive-block": null, "archive-log": null, "emulator": "enable", "options": null, "outbreak-prevention": "disabled" }, "smtp": { "archive-block": null, "archive-log": null, "content-disarm": "disable", </pre>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "emulator": "enable", "executables": "default", "options": null, "outbreak-prevention": "disabled"     }   } ] ] </pre> <ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ secprof_antivirus_delete.yml -vvv</code>  <pre> "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url":       "/pm/config/adom/root/obj/antivirus/profile/secprof_anti_virus0"   } ] </pre> </li> <li>• run it one more time to make sure it indeed is deleted.  <pre> ansible-playbook -i hosts/ secprof_antivirus_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.16 Security Profile IPS Sensor Test

Test Objective:	Test The Basic operations with FortiManager Policy Packages Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add an IPS sensor security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile IPS sensor entry'       fmgr_pm_config_adom_adom_obj_ips_sensor:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_ips_sensor0'                 comment: 'A security profile ips sensor entry' created by Ansible' </pre> <ul style="list-style-type: none"> <li>Update an IPS sensor security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a security profile IPS sensor entry'       fmgr_pm_config_adom_adom_obj_ips_sensor:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_ips_sensor0'                 comment: 'A security profile ips sensor entry' updated by Ansible' </pre> <ul style="list-style-type: none"> <li>Get an IPS sensor security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'get a security profile IPS sensor entry'       fmgr_pm_config_adom_adom_obj_ips_sensor: </pre>
------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> method: 'get' url_params:   adom: 'root' params:   - filter:     - 'name'     - '=='     - 'secprof_ips_sensor0' </pre> <ul style="list-style-type: none"> <li>• Delete an IPS sensor security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile IPS sensor entry'       fmgr_pm_config_adom_adom_obj_ips_sensor_sensor:         method: 'delete'         url_params:           adom: 'root'           sensor: 'secprof_ips_sensor0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_ips_sensor_add.yml</li> <li>• secprof_ips_sensor_delete.yml</li> <li>• secprof_ips_sensor_get.yml</li> <li>• secprof_ips_sensor_update.yml</li> </ul>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_ips_sensor_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/ips/sensor"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_ips_sensor_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/ips/sensor"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_ips_sensor_get.yml -vvv "response": [   0,   [     {       "block-malicious-url": "disable",       "comment": "A security profile ips sensor entry updated by Ansible",       "entries": null,       "extended-log": "disable",       "name": "secprof_ips_sensor0",       "replacemsg-group": []     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ firewall_package_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/ips/sensor/secprof_ips_sensor0"   } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ firewall_package_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
-------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	}
Completion Criteria:	success.
Special Considerations:	

### 3.2.17 Security Profile Web Filter Test

Test Objective:	Test The Basic operations with FortiManager Security Profile Web Filter Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a web filter security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile webfilter entry'       fmgr_pm_config_adom_adom_obj_webfilter_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_web_filter0'                 comment: 'A security profile web filter entry created by Ansible'                options:                 - 'jscript'                 - 'cookiefilter' </pre> <ul style="list-style-type: none"> <li>Update a web filter security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a security profile webfilter entry'       fmgr_pm_config_adom_adom_obj_webfilter_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_web_filter0'                 comment: 'A security profile web filter entry updated by Ansible'                options:                 - 'jscript'                 - 'cookiefilter'               inspection-mode: 'flow-based' </pre> <ul style="list-style-type: none"> <li>Get a web filter security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars: </pre>
------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         adom: "root"         ansible_httpapi_use_ssl: True         ansible_httpapi_validate_certs: False         ansible_httpapi_port: 443       tasks:         - name: 'get a security profile webfilter entry'           fmgr_pm_config_adom_adom_obj_webfilter_profile:             method: 'get'             url_params:               adom: 'root'             params:               - filter:                   - 'name'                   - '=='                   - 'secprof_web_filter0' </pre> <ul style="list-style-type: none"> <li>• Delete a web filter security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile webfilter entry'       fmgr_pm_config_adom_adom_obj_webfilter_profile_profile:         method: 'delete'         url_params:           adom: 'root'         profile: 'secprof_web_filter0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_webfilter_add.yml</li> <li>• secprof_webfilter_delete.yml</li> <li>• secprof_webfilter_get.yml</li> <li>• secprof_webfilter_update.yml</li> </ul>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_webfilter_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/webfilter/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_webfilter_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/webfilter/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_webfilter_get.yml -vvv "response": [   0,   [     {       "comment": "A security profile web filter entry updated by Ansible",       "extended-log": "disable",       "ftgd-wf": {         "exempt-quota": [           "17"         ],         "filters": null,         "max-quota-timeout": 300,         "options": "ftgd-disable",         "ovrd": [],         "quota": null,         "rate-crl-urls": "enable",         "rate-css-urls": "enable",         "rate-image-urls": "enable",         "rate-javascript-urls": "enable"       },       "https-replacemsg": "enable",       "inspection-mode": "flow-based",       "log-all-url": "disable",       "name": "secprof_web_filter0",       "options": [         "jscript",         "cookiefilter"       ],       "override": {         "ovrd-cookie": "deny", </pre> </li> </ul>
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "ovrd-dur": "15m", "ovrd-dur-mode": "constant", "ovrd-scope": "user", "ovrd-user-group": [], "profile": [], "profile-attribute": "Login-LAT-Service", "profile-type": "list" }, "post-action": "normal", "replacemsg-group": [], "url-extraction": null, "web": {   "blacklist": "disable",   "bword-table": [],   "bword-threshold": 10,   "content-header-list": [],   "keyword-match": [],   "log-search": "disable",   "safe-search": null,   "urlfilter-table": [],   "whitelist": null,   "youtube-restrict": "none" }, "web-content-log": "enable", "web-extended-all-action-log": "disable", "web-filter-activex-log": "enable", "web-filter-applet-log": "enable", "web-filter-command-block-log": "enable", "web-filter-cookie-log": "enable", "web-filter-cookie-removal-log": "enable", "web-filter-js-log": "enable", "web-filter-jscript-log": "enable", "web-filter-referer-log": "enable", "web-filter-unknown-log": "enable", "web-filter-vbs-log": "enable", "web-ftgd-err-log": "enable", "web-ftgd-quota-usage": "enable", "web-invalid-domain-log": "enable", "web-url-log": "enable", "wisp": "disable", "wisp-algorithm": "auto-learning", "youtube-channel-filter": null, "youtube-channel-status": "disable" } ] ] </pre> <ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ secprof_webfilter_delete.yml -vvv</code></li> </ul> <pre> "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     }   } ] </pre>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         "url":         "/pm/config/adom/root/obj/webfilter/profile/secprof_web_filter0"       }     ]     • run it one more time to make sure it indeed is deleted.     ansible-playbook -i hosts/ secprof_webfilter_delete.yml -vvv     "status": {       "code": -3,       "message": "Object does not exist"     } </pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.18 Security Profile Application Control Test

Test Objective:	<p>Test The Basic operations with FortiManager Security Profile Application Control</p> <p>Operations include: <b>Add</b>, <b>Update(Set)</b>, <b>Get</b> and <b>Delete</b></p>
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add an application control security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile application control entry'       fmgr_pm_config_adom_adom_obj_application_list:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_application_control0'                 comment: 'A security profile application control entry created by Ansible'                 options:                   - 'allow-icmp'                   - 'allow-http' </pre> <ul style="list-style-type: none"> <li>Update an application control security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a security profile application control entry'       fmgr_pm_config_adom_adom_obj_application_list:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_application_control0'                 comment: 'A security profile application control entry updated by Ansible'                 options:                   - 'allow-icmp'                   - 'allow-http'                 deep-app-inspection: 'disable'                 extended-log: 'enable' </pre> <ul style="list-style-type: none"> <li>Get an application control security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi </pre>
------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get a security profile application control entry'     fmgr_pm_config_adom_adom_obj_application_list:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'secprof_application_control0' </pre> <ul style="list-style-type: none"> <li>• Delete an application control security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile application control entry'       fmgr_pm_config_adom_adom_obj_application_list_list:         method: 'delete'         url_params:           adom: 'root'           list: 'secprof_application_control0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_appctrl_add.yml</li> <li>• secprof_appctrl_delete.yml</li> <li>• secprof_appctrl_get.yml</li> <li>• secprof_appctrl_update.yml</li> </ul>
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_appctrl_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/application/list"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_appctrl_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/application/list"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_appctrl_get.yml -vvv "response": [   0,   [     {       "app-replacemsg": "enable",       "comment": "A security profile application control entry updated by Ansible",       "deep-app-inspection": "disable",       "entries": null,       "extended-log": "enable",       "name": "secprof_application_control0",       "options": [         "allow-icmp",         "allow-http"       ],       "other-application-action": "pass",       "other-application-log": "disable",       "replacemsg-group": [],       "unknown-application-action": "pass",       "unknown-application-log": "disable"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_appctrl_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },   }, ] </pre> </li> </ul>
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "url": "/pm/config/adom/root/obj/application/list/secprof_application_contro 10"     }   ]   • run it one more time to make sure it indeed is deleted.   ansible-playbook -i hosts/ secprof_appctrl_delete.yml -vvv   "status": {     "code": -3,     "message": "Object does not exist"   } </pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.19 Security Profile Group Test

Test Objective:	<p>Test The Basic operations with FortiManager Security Profile Group</p> <p>Operations include: <b>Add, Get and Delete</b></p> <p>* from api url: <b>/pm/config/adom/{adom}/obj/firewall/profile-group</b> it looks more like a firewall object. However it's categorized as security profile here: <a href="https://github.com/ansible/ansible/tree/devel/lib/ansible/modules/network/forti_manager">https://github.com/ansible/ansible/tree/devel/lib/ansible/modules/network/forti_manager</a></p>
-----------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a firewall profile group</li> </ul> <pre>- hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile group'       fmgr_pm_config_adom_adom_obj_firewall_profile_group:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_group0'</pre> <ul style="list-style-type: none"> <li>Get a firewall profile group using filter</li> </ul> <pre>- hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'get a security profile group'       fmgr_pm_config_adom_adom_obj_firewall_profile_group:         method: 'get'         url_params:           adom: 'root'         params:           - filter:               - 'name'               - '=='               - 'secprof_group0'</pre> <ul style="list-style-type: none"> <li>Delete a firewall profile group</li> </ul> <pre>- hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile group'  fmgr_pm_config_adom_adom_obj_firewall_profile_group_profile_group:   method: 'delete'</pre>
------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>url_params:   adom: 'root'   profile-group: 'secprof_group0'</pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"><li>• secprof_group_add.yml</li><li>• secprof_group_delete.yml</li><li>• secprof_group_get.yml</li></ul>
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_group_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/profile-group"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_group_get.yml -vvv "response": [   0,   [     {       "application-list": [],       "av-profile": [],       "dlp-sensor": [],       "dnsfilter-profile": [],       "icap-profile": [],       "ips-sensor": [],       "name": "secprof_group0",       "profile-protocol-options": [         "default"       ],       "spamfilter-profile": [],       "ssh-filter-profile": [],       "ssl-ssh-profile": [         "certificate-inspection"       ],       "voip-profile": [],       "waf-profile": [],       "webfilter-profile": []     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_group_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/profile-group/secprof_group0"   } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ secprof_group_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
-------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	}
Completion Criteria:	success.
Special Considerations:	

### 3.2.20 Security Profile Web Proxy Test

Test Objective:	Test The Basic operations with FortiManager Security Profile Web Proxy Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a web proxy profile</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'add a security profile web-proxy entry'     fmgr_pm_config_adom_adom_obj_web_proxy_profile:       method: 'add'       url_params:         adom: 'root'       params:         - data:             - name: 'secprof_webproxy0'               strip-encoding: 'enable'</pre> <ul style="list-style-type: none"> <li>Update a web proxy profile</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'update a security profile web-proxy entry'     fmgr_pm_config_adom_adom_obj_web_proxy_profile:       method: 'update'       url_params:         adom: 'root'       params:         - data:             - name: 'secprof_webproxy0'               strip-encoding: 'disable'</pre> <ul style="list-style-type: none"> <li>Get a web proxy profile using filter</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get a security profile web-proxy entry'     fmgr_pm_config_adom_adom_obj_web_proxy_profile:       method: 'get'       url_params:</pre>
------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         adom: 'root'         params:           - filter:             - 'name'             - '=='             - 'secprof_webproxy0' </pre> <ul style="list-style-type: none"> <li>• Delete a web proxy profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile web-proxy entry'       fmgr_pm_config_adom_adom_obj_web_proxy_profile_profile:         method: 'delete'         url_params:           adom: 'root'           profile: 'secprof_webproxy0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_webproxy_add.yml</li> <li>• secprof_webproxy_delete.yml</li> <li>• secprof_webproxy_get.yml</li> <li>• secprof_webproxy_update.yml</li> </ul>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_webproxy_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/web-proxy/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_webproxy_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/web-proxy/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_webproxy_get.yml -vvv "response": [   0,   [     {       "header-client-ip": "pass",       "header-front-end-https": "pass",       "header-via-request": "pass",       "header-via-response": "pass",       "header-x-authenticated-groups": "pass",       "header-x-authenticated-user": "pass",       "header-x-forwarded-for": "pass",       "headers": null,       "log-header-change": "disable",       "name": "secprof_webproxy0",       "strip-encoding": "disable"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_webproxy_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/web- proxy/profile/secprof_webproxy0"   } ] </pre> </li> <li>run it one more time to make sure it indeed is deleted.</li> </ul>
-------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible-playbook -i hosts secprof_webproxy_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.21 Security Profile Spam Filter Test

Test Objective:	Test The Basic operations with FortiManager Security Profile Spam Filter Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a spam filter security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile spam filter entry'       fmgr_pm_config_adom_adom_obj_spamfilter_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_spam_filter0'                 comment: 'A security profile spam filter entry created by Ansible'               options:                 - 'bannedword'                 - 'spamemailbwl'                 - 'spamfsphish'               flow-based: 'enable' </pre> <ul style="list-style-type: none"> <li>Update a spam filter security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a security profile spam filter entry'       fmgr_pm_config_adom_adom_obj_spamfilter_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_spam_filter0'                 comment: 'A security profile spam filter entry updated by Ansible'               options:                 - 'bannedword'                 - 'spamemailbwl'                 - 'spamfsphish'               flow-based: 'disable' </pre> <ul style="list-style-type: none"> <li>Get a spam filter security profile using filter</li> </ul>
------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'get a security profile spam filter entry'       fmgr_pm_config_adom_adom_obj_spamfilter_profile:         method: 'get'         url_params:           adom: 'root'         params:           - filter:               - 'name'               - '=='               - 'secprof_spam_filter0' </pre> <ul style="list-style-type: none"> <li>• Delete a spam filter security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile spam filter entry'       fmgr_pm_config_adom_adom_obj_spamfilter_profile_profile:         method: 'delete'         url_params:           adom: 'root'         profile: 'secprof_spam_filter0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_spamfilter_add.yml</li> <li>• secprof_spamfilter_delete.yml</li> <li>• secprof_spamfilter_get.yml</li> <li>• secprof_spamfilter_update.yml</li> </ul>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li>           ansible-playbook -i hosts/ secprof_spamfilter_add.yml -vvv            "response": [             0,             {               "status": {                 "code": 0,                 "message": "OK"               },               "url": "/pm/config/adom/root/obj/spamfilter/profile"             }           ]         </li> <li>           ansible-playbook -i hosts/ secprof_spamfilter_update.yml -vvv            "response": [             0,             {               "status": {                 "code": 0,                 "message": "OK"               },               "url": "/pm/config/adom/root/obj/spamfilter/profile"             }           ]         </li> <li>           ansible-playbook -i hosts/ secprof_spamfilter_get.yml -vvv            "response": [             0,             [               {                 "comment": "A security profile spam filter entry updated by Ansible",                 "external": "disable",                 "flow-based": "disable",                 "gmail": {                   "log": "disable"                 },                 "imap": {                   "log": "disable"                 },                 "mapi": {                   "action": "discard",                   "log": "disable"                 },                 "msn-hotmail": {                   "log": "disable"                 },                 "name": "secprof_spam_filter0",                 "options": [                   "bannedword",                   "spamfsphish"                 ],                 "pop3": {                   "log": "disable"                 },                 "replacemsg-group": [],                 "smtp": { </li> </ul>
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         "log": "disable"       },       "spam-bwl-table": [],       "spam-bword-table": [],       "spam-bword-threshold": 10,       "spam-filtering": "disable",       "spam-iptrust-table": [],       "spam-log": "enable",       "spam-log-fortiguard-response": "disable",       "spam-mheader-table": [],       "spam-rbl-table": []     }   ] ] </pre> <ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ secprof_spamfilter_delete.yml -vvv</code>  <pre> "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url":       "/pm/config/adom/root/obj/spamfilter/profile/secprof_spam_filter0"   } ] </pre> </li> <li>• run it one more time to make sure it indeed is deleted.  <pre> ansible-playbook -i hosts/ secprof_spamfilter_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.22 Security Profile ssl-ssh Test

Test Objective:	Test The Basic operations with FortiManager Security Profile ssl and ssh Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a ssl-ssh security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile ssl_ssh entry'       fmgr_pm_config_adom_adom_obj_firewall_ssl_ssh_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_ssl_ssh0'                 comment: 'A ssl&amp;ssh security profile created by Ansible'                mapi-over-https: 'enable'               whitelist: 'disable' </pre> <ul style="list-style-type: none"> <li>Update a ssl-ssh security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'update a security profile ssl_ssh entry'       fmgr_pm_config_adom_adom_obj_firewall_ssl_ssh_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_ssl_ssh0'                 comment: 'A ssl&amp;ssh security profile updated by Ansible'                mapi-over-https: 'disable'               whitelist: 'enable' </pre> <ul style="list-style-type: none"> <li>Get a ssl-ssh security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False </pre>
------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_port: 443 tasks:   - name: 'get a security profile ssl_ssh entry'     fmgr_pm_config_adom_adom_obj_firewall_ssl_ssh_profile:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'secprof_ssl_ssh0' </pre> <ul style="list-style-type: none"> <li>• Delete a ssl-ssh security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile ssl_ssh entry'  fmgr_pm_config_adom_adom_obj_firewall_ssl_ssh_profile_ssl_ssh_profile:   method: 'delete'   url_params:     adom: 'root'     ssl-ssh-profile: 'secprof_ssl_ssh0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_ssl_ssh_add.yml</li> <li>• secprof_ssl_ssh_delete.yml</li> <li>• secprof_ssl_ssh_get.yml</li> <li>• secprof_ssl_ssh_update.yml</li> </ul>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_ssl_ssh_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ssl-ssh-profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_ssl_ssh_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/firewall/ssl-ssh-profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_ssl_ssh_get.yml -vvv "response": [   0,   [     {       "caname": [         "Fortinet_CA_SSL"       ],       "comment": "A ssl&amp;ssh security profile updated by Ansible",       "ftps": {         "allow-invalid-server-cert": "disable",         "client-cert-request": "bypass",         "ports": [],         "status": "deep-inspection",         "unsupported-ssl": "bypass",         "untrusted-cert": "allow"       },       "https": {         "allow-invalid-server-cert": "disable",         "client-cert-request": "bypass",         "ports": [],         "status": "deep-inspection",         "unsupported-ssl": "bypass",         "untrusted-cert": "allow"       },       "imaps": {         "allow-invalid-server-cert": "disable",         "client-cert-request": "inspect",         "ports": [],         "status": "deep-inspection",         "unsupported-ssl": "bypass", </pre> </li> </ul>
-------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "untrusted-cert": "allow"     },     "mapi-over-https": "disable",     "name": "secprof_ssl_ssh0",     "pop3s": {         "allow-invalid-server-cert": "disable",         "client-cert-request": "inspect",         "ports": [],         "status": "deep-inspection",         "unsupported-ssl": "bypass",         "untrusted-cert": "allow"     },     "rpc-over-https": "disable",     "server-cert-mode": "re-sign",     "smtps": {         "allow-invalid-server-cert": "disable",         "client-cert-request": "inspect",         "ports": [],         "status": "deep-inspection",         "unsupported-ssl": "bypass",         "untrusted-cert": "allow"     },     "ssh": {         "inspect-all": "disable",         "ports": [],         "ssh-algorithm": "compatible",         "ssh-policy-check": "disable",         "ssh-tun-policy-check": "disable",         "status": "deep-inspection",         "unsupported-version": "bypass"     },     "ssl": {         "inspect-all": "disable"     },     "ssl-anomalies-log": "enable",     "ssl-exempt": null,     "ssl-exemptions-log": "disable",     "ssl-server": null,     "untrusted-caname": [         "Fortinet_CA_Untrusted"     ],     "use-ssl-server": "disable",     "whitelist": "enable"     }     ]     ]     ]     • ansible-playbook -i hosts/ secprof_ssl_ssh_delete.yml -vvv     "response": [         0,         {             "status": {                 "code": 0,                 "message": "OK"             }         }     ], </pre>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "url": "/pm/config/adom/root/obj/firewall/ssl-ssh- profile/secprof_ssl_ssh0"     }   ]   • run it one more time to make sure it indeed is deleted.   ansible-playbook -i hosts/ secprof_ssl_ssh_delete.yml -vvv   "status": {     "code": -3,     "message": "Object does not exist"   } </pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.23 Security Profile voip Test

Test Objective:	Test The Basic operations with FortiManager Security Profile VOIP Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	----------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>• Add a voip security profile</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'add a security profile voip entry'     fmgr_pm_config_adom_adom_obj_voip_profile:       method: 'add'       url_params:         adom: 'root'       params:         - data:             - name: 'secprof_voip0'               comment: 'A voip security profile created by Ansible'</pre> <ul style="list-style-type: none"> <li>• Update a voip security profile</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'update a security profile voip entry'     fmgr_pm_config_adom_adom_obj_voip_profile:       method: 'update'       url_params:         adom: 'root'       params:         - data:             - name: 'secprof_voip0'               comment: 'A voip security profile updated by Ansible'</pre> <ul style="list-style-type: none"> <li>• Get a voip security profile using filter</li> </ul> <pre>- hosts: fortimanager01 connection: httpapi vars:   adom: "root"   ansible_httpapi_use_ssl: True   ansible_httpapi_validate_certs: False   ansible_httpapi_port: 443 tasks:   - name: 'get a security profile voip entry'     fmgr_pm_config_adom_adom_obj_voip_profile:</pre>
------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> method: 'get' url_params:   adom: 'root' params:   - filter:     - 'name'     - '=='     - 'secprof_voip0' </pre> <ul style="list-style-type: none"> <li>• Delete a voip security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile voip entry'       fmgr_pm_config_adom_adom_obj_voip_profile_profile:         method: 'delete'         url_params:           adom: 'root'           profile: 'secprof_voip0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_voip_add.yml</li> <li>• secprof_voip_delete.yml</li> <li>• secprof_voip_get.yml</li> <li>• secprof_voip_update.yml</li> </ul>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_voip_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/voip/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_voip_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/voip/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_voip_get.yml -vvv "response": [   0,   [     {       "comment": "A voip security profile updated by Ansible",       "name": "secprof_voip0",       "sccp": {         "block-mcast": "disable",         "log-call-summary": "disable",         "log-violations": "disable",         "max-calls": 0,         "status": "enable",         "verify-header": "disable"       },       "sip": {         "ack-rate": 0,         "block-ack": "disable",         "block-bye": "disable",         "block-cancel": "disable",         "block-geo-red-options": "disable",         "block-info": "disable",         "block-invite": "disable",         "block-long-lines": "enable",         "block-message": "disable",         "block-notify": "disable",         "block-options": "disable",         "block-prack": "disable",         "block-publish": "disable",         "block-refer": "disable",         "block-register": "disable",         "block-subscribe": "disable", </pre> </li> </ul>
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "block-unknown": "enable", "block-update": "disable", "bye-rate": 0, "call-keepalive": 0, "cancel-rate": 0, "contact-fixup": "enable", "hnt-restrict-source-ip": "disable", "hosted-nat-traversal": "disable", "info-rate": 0, "invite-rate": 0, "ips-rtp": "enable", "log-call-summary": "enable", "log-violations": "disable", "malformed-header-allow": "pass", "malformed-header-call-id": "pass", "malformed-header-contact": "pass", "malformed-header-content-length": "pass", "malformed-header-content-type": "pass", "malformed-header-cseq": "pass", "malformed-header-expires": "pass", "malformed-header-from": "pass", "malformed-header-max-forwards": "pass", "malformed-header-p-asserted-identity": "pass", "malformed-header-rack": "pass", "malformed-header-record-route": "pass", "malformed-header-route": "pass", "malformed-header-rseq": "pass", "malformed-header-sdp-a": "pass", "malformed-header-sdp-b": "pass", "malformed-header-sdp-c": "pass", "malformed-header-sdp-i": "pass", "malformed-header-sdp-k": "pass", "malformed-header-sdp-m": "pass", "malformed-header-sdp-o": "pass", "malformed-header-sdp-r": "pass", "malformed-header-sdp-s": "pass", "malformed-header-sdp-t": "pass", "malformed-header-sdp-v": "pass", "malformed-header-sdp-z": "pass", "malformed-header-to": "pass", "malformed-header-via": "pass", "malformed-request-line": "pass", "max-body-length": 0, "max-dialogs": 0, "max-idle-dialogs": 0, "max-line-length": 998, "message-rate": 0, "nat-trace": "enable", "no-sdp-fixup": "disable", "notify-rate": 0, "open-contact-pinhole": "enable", "open-record-route-pinhole": "enable", "open-register-pinhole": "enable", "open-via-pinhole": "disable", </pre>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "options-rate": 0, "prack-rate": 0, "preserve-override": "disable", "provisional-invite-expiry-time": 210, "publish-rate": 0, "refer-rate": 0, "register-contact-trace": "disable", "register-rate": 0, "rfc2543-branch": "disable", "rtsp": "enable", "ssl-mode": "off", "ssl-pfs": "allow", "status": "enable", "strict-register": "enable", "subscribe-rate": 0, "unknown-header": "pass", "update-rate": 0     }   } ] ] </pre> <ul style="list-style-type: none"> <li>• <code>ansible-playbook -i hosts/ secprof_voip_delete.yml -vvv</code>  <pre> "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url":       "/pm/config/adom/root/obj/voip/profile/secprof_voip0"     }   ] </pre> </li> <li>• run it one more time to make sure it indeed is deleted.  <pre> ansible-playbook -i hosts/ secprof_voip_delete.yml -vvv "status": {   "code": -3,   "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.24 Security Profile WAF Test

Test Objective:	<p>Test The Basic operations with FortiManager Security Profile Web Application Firewall(WAF)</p> <p>Operations include: <b>Add, Update(Set), Get and Delete</b></p>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a waf security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile WAF entry'       fmgr_pm_config_adom_adom_obj_waf_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_waf0'                 comment: 'A security profile waf entry created by Ansible'               external: 'disable'               extended-log: 'enable' </pre> <ul style="list-style-type: none"> <li>Update a waf security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Update a security profile WAF entry'       fmgr_pm_config_adom_adom_obj_waf_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_waf0'                 comment: 'A security profile waf entry updated by Ansible'               external: 'enable'               extended-log: 'disable' </pre> <ul style="list-style-type: none"> <li>Get a waf security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False </pre>
------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> ansible_httpapi_port: 443 tasks:   - name: 'Get a security profile WAF entry'     fmgr_pm_config_adom_adom_obj_waf_profile:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'secprof_waf0' </pre> <ul style="list-style-type: none"> <li>• Delete a waf security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Delete a security profile WAF entry'       fmgr_pm_config_adom_adom_obj_waf_profile_profile:         method: 'delete'         url_params:           adom: 'root'           profile: 'secprof_waf0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_waf_add.yml</li> <li>• secprof_waf_delete.yml</li> <li>• secprof_waf_get.yml</li> <li>• secprof_waf_update.yml</li> </ul>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_waf_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/waf/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_waf_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/waf/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_waf_get.yml -vvv "response": [   0,   [     {       "address-list": null,       "comment": "A security profile waf entry updated by Ansible",       "constraint": null,       "extended-log": "disable",       "external": "enable",       "method": null,       "name": "secprof_web_filter0",       "signature": null,       "url-access": null     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_waf_delete.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/waf/profile/secprof_web_filter0"   } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ secprof_waf_delete.yml -vvv </pre> </li> </ul>
-------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>"status": {   "code": -3,   "message": "Object does not exist" }</pre>
Completion Criteria:	success.
Special Considerations:	

### 3.2.25 Security Profile Wanopt Test

Test Objective:	Test The Basic operations with FortiManager Security Profile WANOPT Operations include: <b>Add</b> , <b>Update(Set)</b> , <b>Get</b> and <b>Delete</b>
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a wanopt security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a security profile wanopt entry'       fmgr_pm_config_adom_adom_obj_wanopt_profile:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_wanopt0'                 comments: 'A security profile wanopt entry created by Ansible'               transparent: 'disable' </pre> <ul style="list-style-type: none"> <li>Update a wanopt security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'Update a security profile wanopt entry'       fmgr_pm_config_adom_adom_obj_wanopt_profile:         method: 'update'         url_params:           adom: 'root'         params:           - data:               - name: 'secprof_wanopt0'                 comments: 'A security profile wanopt entry updated by Ansible'               transparent: 'enable' </pre> <ul style="list-style-type: none"> <li>Get a wanopt security profile using filter</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks: </pre>
------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> -   name: 'get a security profile wanopt entry'     fmgr_pm_config_adom_adom_obj_wanopt_profile:       method: 'get'       url_params:         adom: 'root'       params:         - filter:             - 'name'             - '=='             - 'secprof_wanopt0' </pre> <ul style="list-style-type: none"> <li>• Delete a wanopt security profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a security profile wanopt entry'       fmgr_pm_config_adom_adom_obj_wanopt_profile_profile:         method: 'delete'         url_params:           adom: 'root'           profile: 'secprof_wanopt0' </pre> <p><b>the playbooks list:</b></p> <ul style="list-style-type: none"> <li>• secprof_wanopt_add.yml</li> <li>• secprof_wanopt_delete.yml</li> <li>• secprof_wanopt_get.yml</li> <li>• secprof_wanopt_update.yml</li> </ul>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_wanopt_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/wanopt/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_wanopt_update.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/config/adom/root/obj/wanopt/profile"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ secprof_wanopt_get.yml -vvv "response": [   0,   [     {       "auth-group": [],       "cifs": {         "byte-caching": "enable",         "log-traffic": "enable",         "port": [           445         ],         "prefer-chunking": "fix",         "secure-tunnel": "disable",         "status": "disable",         "tunnel-sharing": "private"       },       "comments": "A security profile wanopt entry updated by Ansible",       "ftp": {         "byte-caching": "enable",         "log-traffic": "enable",         "port": [           21         ],         "prefer-chunking": "fix",         "secure-tunnel": "disable",         "status": "disable",         "tunnel-sharing": "private"       },       "http": {         "byte-caching": "enable", </pre> </li> </ul>
-------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "log-traffic": "enable", "port": [     80 ], "prefer-chunking": "fix", "secure-tunnel": "disable", "ssl": "disable", "status": "disable", "tunnel-non-http": "disable", "tunnel-sharing": "private", "unknown-http-version": "tunnel" }, "mapi": {     "byte-caching": "enable",     "log-traffic": "enable",     "port": [         135     ],     "secure-tunnel": "disable",     "status": "disable",     "tunnel-sharing": "private" }, "name": "secprof_wanopt0", "tcp": {     "byte-caching": "disable",     "byte-caching-opt": "mem-only",     "log-traffic": "enable",     "port": "1-65535",     "secure-tunnel": "disable",     "ssl": "disable",     "status": "disable",     "tunnel-sharing": "private" }, "transparent": "enable" } ] ] </pre> <ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ secprof_wanopt_delete.yml -vvv "response": [     0,     {         "status": {             "code": 0,             "message": "OK"         },         "url": "/pm/config/adom/root/obj/wanopt/profile/secprof_wanopt0"     } ] </pre> </li> <li> <pre> run it one more time to make sure it indeed is deleted. ansible-playbook -i hosts/ secprof_wanopt_delete.yml -vvv "status": {     "code": -3,     "message": "Object does not exist" </pre> </li> </ul>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	}
Completion Criteria:	success.
Special Considerations:	

### 3.2.26 Device Profile Test

Test Objective:	Test The Basic operations with FortiManager Device Profile Operations include: <b>Add, Update(Set), Get and Delete</b>
-----------------	---------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add a device profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'add a device profile entry'       fmgr_pm_devprof_adom_adom:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: 'device_profile0'                 description: 'a device profile created by Ansible'               type: 'devprof' </pre> <ul style="list-style-type: none"> <li>Get all device profiles (no filter supported)</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'get a device profile entry'       fmgr_pm_devprof_adom_adom:         method: 'get'         url_params:           adom: 'root' </pre> <ul style="list-style-type: none"> <li>Delete a device profile</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'delete a device profile entry'       fmgr_pm_devprof_adom_adom_pkg_path:         method: 'delete'         url_params:           adom: 'root'           pkg_path: 'device_profile0' </pre>
------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<b>the playbooks list:</b> <ul style="list-style-type: none"> <li>• devprof_add.yml</li> <li>• devprof_delete.yml</li> <li>• devprof_get.yml</li> </ul>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Validation:	<ul style="list-style-type: none"> <li> <pre> ansible-playbook -i hosts/ devprof_add.yml -vvv "response": [   0,   {     "status": {       "code": 0,       "message": "OK"     },     "url": "/pm/devprof/adom/root"   } ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ devprof_get.yml -vvv "response": [   0,   [     {       "description": "",       "enabled options": [         "dns",         "ntp",         "email",         "admin",         "snmp",         "repmsg",         "ftgd",         "log"       ],       "name": "default",       "oid": 1306,       "type": "devprof"     },     {       "description": "",       "enabled options": [         "dns",         "ntp",         "email",         "admin",         "snmp",         "repmsg",         "ftgd",         "log"       ],       "name": "device_profile0",       "oid": 1349,       "type": "devprof"     }   ] ] </pre> </li> <li> <pre> ansible-playbook -i hosts/ devprof_delete.yml -vvv "response": [   0,   {     "status": { </pre> </li> </ul>
-------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre> "code": 0, "message": "OK" }, "url": "/pm/devprof/adom/root/device_profile0" } ] </pre> <ul style="list-style-type: none"> <li>run it one more time to make sure it indeed is deleted.  <code>ansible-playbook -i hosts/ devprof_delete.yml -vvv</code> <pre> "status": { "code": -3, "message": "Object does not exist" } </pre> </li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.27 Provisioning Template Test

Test Objective:	<p>Test The Basic operations with FortiManager Device Profile Template:</p> <p>Tests include:</p> <ul style="list-style-type: none"> <li>DNS setting</li> <li>Alert Main setting</li> <li>NTP setting</li> <li>Admin Setting</li> <li>SNMP v1/v2 setting</li> <li>SNMP v3 setting</li> </ul> <p>Operations include: <b>Set, Get</b> and <b>Delete</b></p>
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

Technique:	<p>Playbooks for each operation:</p> <ul style="list-style-type: none"> <li>Add and set the device profile template</li> </ul> <pre> - hosts: fortimanager01   connection: httpapi   vars:     adom: "root"     devprof_name: 'device_profile1'     ansible_httpapi_use_ssl: True     ansible_httpapi_validate_certs: False     ansible_httpapi_port: 443   tasks:     - name: 'create a device profile entry'       fmgr_pm_devprof_adom_adom:         method: 'add'         url_params:           adom: 'root'         params:           - data:               - name: '{{ devprof_name }}'                 type: 'devprof'     - name: 'modify the dns setting'       fmgr_pm_config_adom_adom_devprof_devprof_system_dns:         method: 'set'         url_params:           adom: '{{ adom }}'           devprof: '{{ devprof_name }}'         params:           - data:               domain: 'foo.bar.baz'               primary: '4.4.4.4'               secondary: '8.8.8.8'     - name: 'modify the alert mail'       fmgr_pm_config_adom_adom_devprof_devprof_system_email_server:         method: 'set'         url_params:           adom: '{{ adom }}'           devprof: '{{ devprof_name }}'         params:           - data:               username: 'USERNAME'               password:                 - 'PASSWORD'               authenticate: 'enable'               server: 'smtp.foo.bar.baz'     - name: 'modify the ntp setting'       fmgr_pm_config_adom_adom_devprof_devprof_system_ntp:         method: 'set'         url_params:           adom: '{{ adom }}'           devprof: '{{ devprof_name }}' </pre>
------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<pre>         params:           - data:               ntpsync: 'enable'               ntpserver:                 - authentication: 'disable'                   server: 'ntp.foo.bar.baz'                   type: 'custom'  -   name: 'modify the admin setting'     fmgr_pm_config_adom_adom_devprof_devprof_system_global:       method: 'set'       url_params:         adom: '{{ adom }}'         devprof: '{{ devprof_name }}'       params:         - data:             gui-theme: 'melongene'             language: 'spanish'             switch-controller: 'enable'             admin-scp: 'enable'             admin-https-redirect: 'disable'  -   name: 'modify the snmp v1/v2 community entry'  fmgr_pm_config_adom_adom_devprof_devprof_system_snmp_community:   method: 'set'   url_params:     adom: '{{ adom }}'     devprof: '{{ devprof_name }}'   params:     - data:         - name: 'community_name0'           status: 'enable'           events:             - 'cpu-high'             - 'mem-low'  -   name: 'modify the snmp v3 user entry'  fmgr_pm_config_adom_adom_devprof_devprof_system_snmp_user:   method: 'set'   url_params:     adom: '{{ adom }}'     devprof: '{{ devprof_name }}'   params:     - data:         - name: 'user_name0'           status: 'enable'           events:             - 'intf-ip'             - 'log-full' </pre> <ul style="list-style-type: none"> <li>• Delete the profile and all the template for it.</li> </ul> <p><b>* The same step with 3.2.26.</b></p>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

	<b>the playbooks list:</b> <ul style="list-style-type: none"> <li>devprof_template_setup.yml</li> </ul>
Validation:	<ul style="list-style-type: none"> <li>ansible-playbook -i hosts/ devprof_template_setup.yml -vvv * <b>validate from UI</b></li> </ul>
Completion Criteria:	success.
Special Considerations:	

### 3.2.28 [template]

Test Objective:	Test The Basic operations with FortiManager Security Profile IPS Operations include: <b>Add, Update(Set), Get and Delete</b>
Technique:	Playbooks for each operation: <ul style="list-style-type: none"> <li>Add a se</li> <li>Update a firewall package</li> <li>Get a firewall packages using filter</li> <li>Delete a firewall package</li> </ul> <b>the playbooks list:</b> <ul style="list-style-type: none"> <li>firewall_package_add.yml</li> <li>firewall_package_delete.yml</li> <li>firewall_package_get.yml</li> </ul>
Validation:	<ul style="list-style-type: none"> <li>ansible-playbook -i hosts/ firewall_package_add.yml -vvv</li> <li>ansible-playbook -i hosts/ firewall_policy_add.yml -vvv</li> <li>ansible-playbook -i hosts/ firewall_package_get.yml -vvv</li> <li>ansible-playbook -i hosts/ firewall_package_delete.yml -vvv</li> <li>run it one more time to make sure it indeed is deleted.</li> <li>ansible-playbook -i hosts/ firewall_package_delete.yml -vvv  "status": {  "code": -3,  "message": "Object does not exist"  }</li> </ul>
Completion Criteria:	success.
Special Considerations:	

Generated FortiManager Ansible Modules	Version: 1.0
	Date:

### **3.3 User Interface Testing**

### **3.4 Performance Profiling**

### **3.5 Load Testing**

### **3.6 Stress Testing**

### **3.7 Security and Access Control Testing**

### **3.8 Failover and Recovery Testing**

## **4. Resources**

### **4.1 Workers**

N/A

### **4.2 System Resources**

N/A

## **5. Deliverables**

N/A

## **6. Appendix A: Sample Full Terraform Settings**