
FOS-ansible

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FOS-ANSIBLE INTRODUCTION

This repository provides reference example Modules & Playbooks for Ansible to manage Fibre Channel switches running different FOS versions. Tested with Ansible 4.5.0 running Python 3.8.5. Also, Tested with AWX 13.0.0.

1.1 Installation from Github.com

Step1: clone the repository

HTTPS example:

```
git clone https://github.com/brocade/ansible
```

Step2: Add library path ANSIBLE_LIBRARY variable

BASH example:

```
if the repository is cloned under /home/myaccount/ansible,  
export ANSIBLE_LIBRARY="/home/myaccount/ansible/library"
```

Step3: update ansible.cfg to point to utils directory for module_utils

Example available under ansible.cfg

1.2 Tower/AWX

tower_awx branch is now merged to master. Since playbooks and ansible.cfg are expected to be in the root directory for Tower/AWX, all playbooks and ansible.cfg are moved from tasks directory to root directory.

1.2.1 Usage

Step 1: create a project within AWX and choose

```
SCN TYPE to Git
SCM URL to https://github.com/brocade/ansible.git
```

Step 2: create an inventory.

Step 3: add a host to the inventory. Use `san_eng_zone_seed_san_a` in the host name field.

Step 4: add the following to the variables for the host.

```
ansible_connection: local
fos_ip_addr: <IP address of FOS switch>
fos_user_name: admin
fos_password: <FOS password for admin>
https: <False/True/self>
```

These variables are used by playbooks available when choosing the project created above to connect to FOS switch.

1.3 Connection to FOS

Primary connection to FOS for playbooks is FOS REST connection. However, Some playbook attributes use ssh connect to augment the functionality. When those attributes are specified in the playbooks, be sure that the FOS switch being used to connect is part of known hosts by where ansible-playbook is being executed or where AWX job is being executed.

Here are the examples of attributes using ssh.

Ansible module name	Attributes
brocade_chassis	telnet_timeout
brocade_fibrechannel_configuration_fabric	fabric_principal_enabled, fabric_principal_priority, in_order_delivery_enabled
brocade_fibrechannel_configuration_n_port_configuration	authentication_recovery_mode
brocade_fibrechannel_switch	dynamic_load_sharing (pre 9.0 only)
brocade_security_user_config	account_enabled (pre 9.0 only)
brocade_snmp	host being set to 0.0.0.0 (pre 9.0 only)

If host key check is to be turned off, `ssh_hostkeymust` field in credential variable should be set to false. Here is an example of how that can be done by defining credential variable in extra variables section for AWX job template.

```
credential:
  fos_ip_addr: "{{fos_ip_addr}}"
  fos_user_name: "{{fos_user_name}}"
  fos_password: "{{fos_password}}"
  https: "{{fos_https}}"
  ssh_hostkeymust: False
```

1.4 How to create playbooks

When creating Zoning playbooks, Zoning specific modules are used. This is to hide some of the Zoning specific operational complexities that would otherwise be exposed if using generic templates. However, most other REST FOS objects can be addressed by common template modules: `brocade_single_obj` and `brocade_list_obj`.

1.4.1 Zoning

Using `brocade_zoning_alias`, `brocade_zoning_zone`, and `brocade_zoning_cfg` modules, playbooks can be created to update Alias, Zone, or CFG in FOS Zoning database respectively.

When adding Alias, Zone or CFG, each module takes a list of entries. Each entry contains a name and a list of members. `brocade_zoning_zone` module can take `principal_members` in addition to `members` if you are interested in creating peer zones. During addition, entries are considered additive to the existing FOS Zoning database. In other word, if a playbook contains Aliases AAA and BBB and FOS Zoning database contained BBB and CCC before the execution of the playbook, the result of the playbook will contain Aliases AAA, BBB, and CCC. CCC is not removed even though it is not mentioned in the playbook.

Here is an example of a simple playbook of Alias to create Host1 Alias with two members and Target2 Alias with one member.

```
- name: Create aliases
  brocade_zoning_alias:
    credential:
      fos_ip_addr: 10.10.10.10
      fos_user_name: admin
      fos_password: password
      https: False
    vfid: -1
    aliases:
      - name: Host1
        members:
          - aa:11:11:11:11:11:11:11
          - aa:22:22:22:22:22:22:22
      - name: Target2
        members:
          - aa:44:44:44:44:44:44:44
```

Alias, Zone, or CFG entry is deleted only if `aliases_to_delete`, `zones_to_delete` or `cfgs_to_delete` variable is provided with a list of Alises, Zones or CFGs to delete.

Here is an example of a simple playbook of Alias to delete Host1 and Target2.

```
- name: Delete aliases
  brocade_zoning_alias:
    credential:
      fos_ip_addr: 10.10.10.10
      fos_user_name: admin
      fos_password: password
      https: False
    vfid: -1
    aliases_to_delete:
      - name: Host1
      - name: Target2
```

Please refer to `tasks/zoning_zone_delete.yml` for additional reference.

Alias, Zone, or CFG entry addition and deletion are mutually exclusive.

Members to existing Alias, Zone or CFG entries are updated during a play if difference exists between a playbook and the existing FOS Zoning database. By default, members or `principal_members` are thought to be a full list and NOT additive. Thus resulting play of FOS Zoning database will contain the members defined in the playbook only. For example, if a playbook defines an Alias with members AAA and BBB and the Alias in FOS Zoning database contained BBB and CCC before the execution of the playbook, the result of the playbook will be an Alias with AAA and BBB. AAA was added and CCC was deleted.

However, if optional `members_add_only` variable is set to True for the task, the result of the previous playbook will be AAA, BBB, and CCC, where AAA is added and CCC remains.

Inversely, optional `members_remove_only` variable is set to True to specify removal of specific Alias, Zone, or CFG members.

Please refer to `tasks/zoning_zone_add.yml` for default behavior reference, `tasks/zoning_zone_members_add_only.yml` for `members_add_only` reference and `tasks/zoning_zone_members_remove_only.yml` for `members_remove_only` reference.

If interested in copying an existing Alias, Zone, or CFG to a new object, `brocade_zoning_copy` module is used. If any changes are detected in the Zoning object - for example, new member is added to a Zone - being copied from, the difference is newly applied to the destination object - i.e. the added member is added to the destination Zone if already created.

During execution, each module will update the define configuration and either save or enable CFG depending on if a CFG is already active on FOS. If any error is encountered, the changes are aborted and the FOS Zoning database will revert back to pre-task state.

An optional `active_cfg` variable is only applicable to `brocade_zoning_cfg` module. The variable is used to specify a CFG to be enabled.

Since Zoning modules are additive for entries by default, it is not necessary that the full Zoning database is referred in the playbooks. However, maintaining a full database in a playbook may be beneficial for certain use cases. To help, PyFOS based `zoning_to_yaml.py` is provided to dump the existing FOS Zoning database in yaml format. The screen output can be saved to a file and referenced in playbooks. Please refer to github.com/brocade/pyfos for PyFOS details and `tasks/zonedb.yml` and `tasks/zoning_act.yml` for reference.

1.4.2 Yang module/object specific Ansible modules

Here are the list of additional Ansible modules beyond Zoning. These modules typically take a dictionary or a list of dictionary. The dictionary contains attributes matching Yang REST leaf definitions. However, Ansible variables require underscore while hyphen is used in Yang REST leaf definitions. So, the attributes within the dictionary should match Yang REST leaf definition while replacing hyphen with underscore. i.e. `my-leaf-name` in Yang REST is converted to `my_leaf_name` within Ansible playbook.

Ansible module name	Description
brocade_chassis.py	update chassis attributes
brocade_facts.py	retrieve facts for specified areas
brocade_fibrechannel_configuration_fabric.py	update fabric configuration
brocade_fibrechannel_configuration_port_configuration.py	update port configuration
brocade_fibrechannel_switch.py	update switch configuration
brocade_interface_fibrechannel.py	update FC port configuration
brocade_logging_audit.py	update audit configuration
brocade_logging_syslog_server.py	update syslog server configuration
brocade_maps_maps_config.py	update MAPS configuration
brocade_operation_show_status.py	show status on operations initiated
brocade_operation_supportsave.py	initiate supportsave operation
brocade_security_ipfilter_policy.py	update ip filter policy
brocade_security_ipfilter_rule.py	update ip filter rule
brocade_security_password.py	update password. Passwords are given in clear text
brocade_security_security_certificate_action.py	import/export CSR/certificate
brocade_security_security_certificate_generate.py	generate CSR/certificate
brocade_security_user_config.py	update login accounts
brocade_snmp_system.py	update snmp system attributes
brocade_snmp_v1_account.py	update snmp v1 account
brocade_snmp_v1_trap.py	update snmp v1 trap
brocade_snmp_v3_account.py	update snmp v3 account
brocade_snmp_v3_trap.py	update snmp v3 trap
brocade_time_clock_server.py	update clock server configuration
brocade_time_time_zone.py	update time zone

1.4.3 How to add attribute input to modules

As documented above, attributes passed to modules mirror Yang REST attribute name, except replacing “-” with “_” to aid Ansible convention. Most values assigned to these attributes also mirror Yang REST definition and details can be found in github.com/brocade/yang.

However, in some instances, attribute values are modified for both to maintain consistencies and to help with readability of playbooks.

Ansible module name	Attribute name	Value description
brocade_access_gateway_policy.py	auto_policy_enabled	boolean
brocade_access_gateway_policy.py	port_group_policy_enabled	boolean
brocade_fibrechannel_switch.py	enabled_state	boolean
brocade_interface_fibrechannel.py	compression_configured	boolean
brocade_interface_fibrechannel.py	credit_recovery_enabled	boolean
brocade_interface_fibrechannel.py	csctl_mode_enabled	boolean
brocade_interface_fibrechannel.py	d_port_enable	boolean
brocade_interface_fibrechannel.py	e_port_disable	boolean
brocade_interface_fibrechannel.py	enabled_state	boolean
brocade_interface_fibrechannel.py	encryption_enabled	boolean
brocade_interface_fibrechannel.py	ex_port_enabled	boolean
brocade_interface_fibrechannel.py	fault_delay_enabled	boolean
brocade_interface_fibrechannel.py	fec_enabled	boolean
brocade_interface_fibrechannel.py	g_port_locked	boolean

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Table 1 – continued from previous page

Ansible module name	Attribute name	Value description
brocade_interface_fib_rechannel.py	isl_ready_mode_enabled	boolean
brocade_interface_fib_rechannel.py	long_distance	Disabled/L0/L1/L2/LE/ L0.5/LD/LS
brocade_interface_fib_rechannel.py	los_tov_mode_enabled	Disabled/Fixed/FixedAuto
brocade_interface_fib_rechannel.py	max_speed	32Gig/16Gig/10Gig/8Gig/4Gig/2Gig/1Gig
brocade_interface_fib_rechannel.py	mirror_port_enabled	boolean
brocade_interface_fib_rechannel.py	n_port_enabled	boolean
brocade_interface_fib_rechannel.py	non_dfe_enabled	boolean
brocade_interface_fib_rechannel.py	npiv_enabled	boolean
brocade_interface_fib_rechannel.py	npiv_flogi_logout_enabled	boolean
brocade_interface_fib_rechannel.py	persistent_disable	boolean
brocade_interface_fib_rechannel.py	port_autodisable_enabled	boolean
brocade_interface_fib_rechannel.py	qos_enabled	boolean
brocade_interface_fib_rechannel.py	rscn_suppression_enabled	boolean
brocade_interface_fib_rechannel.py	sim_port_enabled	boolean
brocade_interface_fib_rechannel.py	speed	32Gig/16Gig/10Gig/8Gig/4Gig/2Gig/1Gig
brocade_interface_fib_rechannel.py	target_driven_zoning_enabled	boolean
brocade_interface_fib_rechannel.py	trunk_port_enabled	boolean
brocade_interface_fib_rechannel.py	vc_link_init	boolean
brocade_interface_fib_rechannel.py	via_tts_fec_enabled	boolean
brocade_security_password.py	new_password	clear text
brocade_security_password.py	old_password	clear text
brocade_security_security_certificate_action.py	remote_user_password	clear text
brocade_security_ssh_util_public_key_action.py	remote_user_password	clear text
brocade_security_sec_crypto_cfg_template_action.py	remote_user_password	clear text
brocade_security_user_config.py	password	clear text
brocade_snmp_v3_account.py	authentication_password	clear text

1.4.4 Template based Ansible modules

REST Yang objects that have yet been addressed by Yang module/object specific Ansible modules, template based Ansible modules can be used to address them temporarily. Although template based Ansible modules should generally work well with most REST Yang modules, some REST Yang objects specific may not be handled properly. So, it is recommended that Yang module/object specific Ansible modules be used preferably.

Singleton object

A singleton object refers to a FOS REST object that is only one of the kind on FOS switch. Yang definition of container is used to define this type of object. Using the Yang definition and brocade_singleton_obj module, playbooks can be created to update the object.

All the Yang REST FOS models are published in github.com/brocade/yang.

For example, brocade-chassis module contains an object named chassis. And chassis object contains a string type leaf named chassis-user-friendly-name, among other attributes.

```
module brocade-chassis {
  container brocade-chassis {
    container chassis {
      leaf chassis-user-friendly-name {
      }
    }
  }
}
```

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```

    }
  }
}

```

To create a playbook to set chassis-user-friendly-name to XYZ is created by:

- 1) use brocade_singleton_obj module
- 2) provide the module_name to match the Yang REST FOS module name - brocade-chassis or brocade_chassis. “-” and “_” are interchangeable as module_name.
- 3) provide the obj_name to match the Yang REST FOS object name - chassis. As with module_name, “-” and “_” are interchangeable as obj_name.
- 4) provide leaf entry within attributes. Only one - chassis-user-friendly-name - is being referenced for the moment. Since Ansible variable should not contain “-”, they are placed by “_”.

```

- name: chassis configuration
  brocade_singleton_obj:
    credential:
      fos_ip_addr: 10.10.10.10
      fos_user_name: admin
      fos_password: password
      https: False
    vfid: -1
    module_name: "brocade_chassis"
    obj_name: "chassis"
    attributes:
      chassis_user_friendly_name: XYZ

```

Playing the above playbook to set the chassis-user-friendly-name to XYZ if different or return no change if already set to XYZ.

Although the module should apply to all objects in general, the following are the list of modules and objects that have been verified based on the playbooks under tasks directory

module name	object name
brocade_chassis	chassis
brocade_fibrechannel_configuration	fabric
brocade_fibrechannel_configuration	port_configuration
brocade_logging	audit
brocade-maps	maps-config
brocade-security	password
brocade-snmp	system
brocade_time	clock_server
brocade_time	time_zone

List object

A list object refers to a FOS REST object that can contain multiple entries on FOS switch. Yang definition of list is used to define this type of object. Using the Yang definition and `brocade_list_obj` module, playbooks can be created to create, update, or delete the object.

All the Yang REST FOS models are published in github.com/brocade/yang.

For example, `brocade-snmp` module contains an object named `v1-account`. And `v1-account` object contains a key named `index` and a string type leaf named `community-name`, among other attributes.

```
module brocade-snmp {
  container brocade-snmp {
    list v1-account {
      key "index";
      leaf index {
      }
      leaf community-name {
      }
    }
  }
}
```

To create a playbook to set `community-name` to `XYZ` for an entry with `index` of 1, and `ZYX` for `index` of 2:

- 1) use `brocade_list_obj` module
- 2) provide the `module_name` to match the Yang REST FOS module name - `brocade-snmp` or `brocade_snmp`. “-” and “_” are interchangeable as `module_name`.
- 3) provide the `list_name` to match the Yang REST FOS object name - `v1-account` or `v1_account`. As with `module_name`, “-” and “_” are interchangeable as `list_name`.
- 4) provide an array within entries. Only `key` and `community_string` are being referenced for the moment. Since Ansible variable should not contain “-”, they are placed by “_”.
- 5) if the array contains all the entries, `all_entries` variable can be left out or set to `True`. If so, entries in playbook but not in FOS are added, entries in both playbook and FOS are updated if different, and entries not in playbook but in FOS are deleted. If the array contains only subset of all entries, only addition and update are performed.

```
- name: snmp configuration
brocade_list_obj:
  credential:
    fos_ip_addr: 10.10.10.10
    fos_user_name: admin
    fos_password: password
    https: False
  vfid: -1
  module_name: "brocade_snmp"
  obj_name: "v1_account"
  all_entries: False
  entries:
    - index: 1
      community_name: XYZ
    - index: 2
      community_name: ZYX
```

Playing the above playbook to set the community name for two entries. Rest of the entries already exist on FOS are untouched.

Although the module should apply to all objects in general, the following are the list of modules and objects that have been verified based on the playbooks under tasks directory

module name	list name
brocade_fibrechannel_switch	fibrechannel_switch
brocade-interface	fibrechannel
brocade_logging	syslog_server
brocade-name-server	fibrechannel-name-server
brocade-snmp	v1-account
brocade-snmp	v1-trap
brocade-snmp	v3-account
brocade-snmp	v3-trap
brocade_security	user_config
brocade-security	ipfilter-rule

1.5 Documentation

Documentation can be generated by following the instructions mentioned in the ./docs/documentation.rst or from the link below: <https://github.com/brocade/ansible/blob/master/docs/documentation.rst>

1.6 Contact

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MODULES

2.1 brocade_access_gateway_n_port_map

Brocade Fibre Channel AG N-Port map configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.1.1 Synopsis

Update Fibre Channel AG N-Port map configuration

2.1.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

n_port_map: List of N-Port map to be updated. All writable attributes supported by BSN REST API. Attribute name containing “-” is replaced with “_”.

required: True

type: dict

2.1.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: configure N-Port map
  brocade_access_gateway_n_port_map:
    credential: "{{credential}}"
    vfid: -1
    n_port_map:
```


2.1.4 Return Values

msg: Success message
returned: on success
type: str

Authors

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2.2 brocade_access_gateway_n_port_settings

Brocade Fibre Channel AG N-Port settings

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.2.1 Synopsis

Update Fibre Channel AG N-Port settings

2.2.2 Parameters

credential: Login information
required: True
type: dict

fos_ip_addr: IP address of the FOS switch
required: True
type: str

fos_user_name: Login name of FOS switch
required: True
type: str

fos_password: Password of FOS switch
required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

n_port_settings: N-Port settings data structure All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: dict

2.2.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: AG N-Port settings
  brocade_access_gateway_n_port_settings
  credential: "{{credential}}"
  vfid: -1
  n_port_settings:
    reliability_counter: 25
```

2.2.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.3 brocade_access_gateway_policy

Brocade Fibre Channel AG policy configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.3.1 Synopsis

Update Fibre Channel AG policy configuration

2.3.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

force: When enabling auto policy, switch is disabled, pg policy is disabled, auto policy is enabled, and switch is enabled. When enabling pg policy, switch is disabled, auto policy is disabled, and switch is enabled. If both policies are specified in the playbook, only the first entry is processed. Pause statement can be used to delay subsequent tasks to be executed prior to switch online while executing multiple tasks from the same playbook.

required: False

type: bool

2.3.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: AG policy
  brocade_access_gateway_policy
  credential: "{{credential}}"
  vfid: -1
  policy:
    port_group_policy_enabled: True
    auto_policy_enabled: False
```

2.3.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.4 brocade_access_gateway_port_group

Brocade Fibre Channel AG port group configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.4.1 Synopsis

Update Fibre Channel AG port group configuration

2.4.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

port_groups: List of port groups be updated. All writable attributes supported by BSN REST API with - replaced with _

required: True

type: dict

2.4.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: snmp v3 traps
  brocade_access_gateway_port_group:
    credential: "{{credential}}"
    vfid: -1
    port_groups:
```

2.4.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.5 brocade_chassis

Brocade Fibre Channel chassis configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.5.1 Synopsis

Update Fibre Channel chassis configuration

2.5.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

chassis: List of chassis attributes. All writable attributes supported by BSN REST API with - replaced with _. Some examples are - chassis_user_friendly_name - chassis name in string

required: True

type: dict

2.5.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial chassis configuration
  brocade_chassis:
    credential: "{{credential}}"
    vfid: -1
    chassis:
      chassis_user_friendly_name: "chassis_name"
    telnet_timeout: 30
```


2.5.4 Return Values

msg: Success message
returned: success
type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.6 brocade_fabric_switch_facts_by_pid

Brocade Fibre Channel switch find by connected device's pid

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.6.1 Synopsis

Fibre Channel switch find by connected device's PID

2.6.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: False

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

pid: Pid of the device

required: True

type: str

2.6.3 Examples

```
vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False
    pid_to_search: "0x140000"

tasks:
- name: gather device alias info
  brocade_fabric_switch_facts_by_pid:
    credential: "{{credential}}"
    vfid: -1
    pid: "{{pid_to_search}}"

- name: print fabric switch information matching pid
  debug:
    var: ansible_facts['fabric_switch']
  when: ansible_facts['fabric_switch'] is defined
```

2.6.4 Return Values

msg: Success message
returned: success
type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.7 brocade_facts

Brocade Fibre Channel facts gathering

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.7.1 Synopsis

Gather FOS facts

2.7.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

gather_subset: List of areas to be gathered. If this option is missing, all areas' facts will be gathered. Same behavior applies if "all" is listed as part of gather_subset.

required: False

type: list

choices:

all

brocade_access_gateway_port_group

brocade_access_gateway_n_port_map

brocade_access_gateway_f_port_list

brocade_access_gateway_device_list

brocade_access_gateway_policy

brocade_access_gateway_n_port_settings

brocade_zoning

brocade_interface_fibrechannel

brocade_chassis_chassis

brocade_fibrechannel_configuration_fabric

brocade_fibrechannel_configuration_port_configuration

brocade_fibrechannel_switch

brocade_fibrechannel_trunk_trunk

brocade_fibrechannel_trunk_performance

brocade_fibrechannel_trunk_trunk_area

brocade_time_clock_server

brocade_time_time_zone

brocade_logging_syslog_server

brocade_logging_audit

brocade_media_media_rdp

brocade_snmp_system

```

    brocade_security_ipfilter_rule
    brocade_security_ipfilter_policy
    brocade_security_user_config
    brocade_security_password_cfg
    brocade_security_security_certificate
    brocade_snmp_v1_account
    brocade_snmp_v1_trap
    brocade_snmp_v3_account
    brocade_snmp_v3_trap
    brocade_maps_maps_config
    brocade_security_sec_crypto_cfg_template_action
    brocade_security_sshutil_public_key
    brocade_security_ldap_role_map

```

2.7.3 Examples

```

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: gather facts
  brocade_facts:
    credential: "{{credential}}"
    vfid: -1
    gather_subset:
      - brocade_access_gateway_port_group
      - brocade_access_gateway_n_port_map
      - brocade_access_gateway_f_port_list
      - brocade_access_gateway_device_list
      - brocade_access_gateway_policy
      - brocade_access_gateway_n_port_settings
      - brocade_zoning
      - brocade_interface_fibrechannel
      - brocade_chassis_chassis
      - brocade_fibrechannel_configuration_fabric
      - brocade_fibrechannel_configuration_port_configuration
      - brocade_fibrechannel_switch
      - brocade_time_clock_server
      - brocade_time_time_zone
      - brocade_logging_syslog_server
      - brocade_logging_audit
      - brocade_snmp_system
      - brocade_security_ipfilter_rule
      - brocade_security_ipfilter_policy
      - brocade_security_user_config

```

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```
- brocade_snmp_v1_account
- brocade_snmp_v1_trap
- brocade_snmp_v3_account
- brocade_snmp_v3_trap
- brocade_maps_maps_config
- brocade_security_sec_crypto_cfg_template_action
- brocade_security_sshutil_public_key
- brocade_security_ldap_role_map

- name: print ansible_facts gathered
  debug:
    var: ansible_facts
```

2.7.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.8 brocade_fibrechannel_configuration_fabric

Brocade Fibre Channel fabric configuration

- *Synopsis*
- *Parameters*
- *Notes*
- *Examples*
- *Return Values*

2.8.1 Synopsis

Update Fibre Channel fabric configuration

2.8.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

fabric: List of fabric configuraiton attributes. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: any

2.8.3 Notes

Note:

- Specifying either `fabric_principal_enabled` and `fabric_principal_priority` may lead to failures. Both of them need to be specified in the playbook. Examples are `insistent_domain_id_enabled` - indicate if insistent domain id feature is enabled
-

2.8.4 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial fabric configuration
  brocade_fibrechannel_configuration_fabric:
    credential: "{{credential}}"
    vfid: -1
    fabric:
      insistent_domain_id_enabled: True
      in_order_delivery_enabled: False
      fabric_principal_enabled: True
      fabric_principal_priority: "0x3"
    register: result
- debug: var=result
```


2.8.5 Return Values

msg: Success message
returned: success
type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.9 brocade_fibrechannel_configuration_port_configuration

Brocade Fibre Channel port Configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.9.1 Synopsis

Update Fibre Channel port configuration

2.9.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

port_configuration: List of port configuraiton attributes. All writable attributes supported by BSN REST API with - replaced with _. Some examples are - portname_mode - portname mode such as dynamic, default, etc.

required: True

type: dict

2.9.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial port configuration
  brocade_fibrechannel_configuration_port_configuration:
    credential: "{{credential}}"
    vfid: -1
    port_configuration:
      dynamic_portname_format: "I.T.A.R"
      portname_mode: "dynamic"
```

2.9.4 Return Values

msg: Success message

returned: success

type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.10 brocade_fibrechannel_logical_switch_fibrechannel_logical_switch

Brocade logical Configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.10.1 Synopsis

Update logging audit configuration.

2.10.2 Parameters

credential: login information including fos_ip_addr - ip address of the FOS switch fos_user_name - login name of FOS switch REST API fos_password - password of FOS switch REST API https - True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: dict

vfid: vfid of the switch to target. The value can be -1 for FOS without VF enabled. For VF enabled FOS, a valid vfid should be given

required: False

type: any

throttle: rest throttling delay in seconds to retry once more if server is busy.

required: False

type: any

timeout: rest timeout in seconds for operations taking longer than default timeout.

required: False

type: any

all_entries: Boolean to indicate if the entries specified are full list of objects or not. By default, all_entries are thought to be true if not specified. If all_entries is set to true, the entries is used to calculate the change of existing entries, addition, and deletion. If all_entries is set to false, the entries is used to calculate the change of existing entries and addition of entries only. i.e. the module will not attempt to delete objects that do not show up in the entries.

required: False

type: any

logical_switches: list of logical switch data structure All writable attributes supported by BSN REST API with - replaced with _. All of non-default switches are required. No default switch data should be present.

required: True

type: any

2.10.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial syslog configuration
  brocade_fibrechannel_logical_switch_fibrechannel_logical_switch:
    credential: "{{credential}}"
    vfid: -1
    logical_switches:
      - fabric_id: 1
        base_switch_enabled: 0
        ficon_mode_enabled: 0
        logical_isl_enabled: 1
        port_member_list:
          port_member:
            - "0/1"
            - "0/2"
```

2.10.4 Return Values

msg: Success message

returned: success

type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.11 brocade_fibrechannel_switch

Brocade Fibre Channel switch configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.11.1 Synopsis

Update Fibre Channel switch configuration

2.11.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

switch: List of switch attributes. All writable attributes supported by BSN REST API with - replaced with _. Some examples are - user_friendly_name - switch name in string - fabric_user_friendly_name - fabric name in string - banner - login banner in string - domain_id - set the domain id of the switch

required: True

type: dict

2.11.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False
    ssh_hostkeymust - hostkeymust argument for ssh attributes only. Default True.

tasks:
- name: disable switch before setting insistent domain id mode and domain id set
  brocade_fibrechannel_switch:
    credential: "{{credential}}"
    vfid: -1
    switch:
      enabled_state: False

- name: initial switch configuration
  brocade_fibrechannel_switch:
    credential: "{{credential}}"
    vfid: -1
    switch:
      user_friendly_name: "switch_name"
      fabric_user_friendly_name: "fabric_name"
      domain_id: 1
      banner: "AUTHORIZED USERS ONLY!"
      dynamic_load_sharing: "lossless-dls"
      domain_name: "yahoo.com"
      dns_servers:
```

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```

    dns_server:
      - "8.8.8.8"
      - "8.8.4.4"
- name: enable switch after setting insistent domain id mode
  brocade_fibrechannel_switch:
    credential: "{{credential}}"
    vfid: -1
    switch:
      enabled_state: True

```

2.11.4 Return Values

msg: Success message

returned: success

type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.12 brocade_interface_fibrechannel

Brocade Fibre Channel port configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.12.1 Synopsis

Update Fibre Channel port configuration

2.12.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

ports: List of ports to be updated. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.12.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: Configure ports
  brocade_interface_fibrechannel:
    credential: "{{credential}}"
    vfid: -1
    ports:
      - name: "0/0"
        enabled_state: False
        npiv_pp_limit: 126
      - name: "0/1"
        persistent_disable: True
```

2.12.4 Return Values

msg: Success message
returned: success
type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.13 brocade_list_obj

Brocade Fibre Channel general list processing

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.13.1 Synopsis

Update Fibre Channel list of objects based on module name and list name provided

2.13.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

module_name: Yang module name. Hyphen or underscore are used interchangeably. If the Yang module name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

list_name: Yang name for the list object. Hyphen or underscore are used interchangeably. If the Yang list name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

all_entries: Boolean to indicate if the entries specified are full list of objects or not. By default, all_entries are thought to be true if not specified. If all_entries is set to true, the entries is used to calculate the change of existing entries, addition, and deletion. If all_entries is set to false, the entries is used to calculate the change of existing entries and addition of entries only. i.e. the module will not attempt to delete objects that do not show up in the entries.

required: False

type: bool

entries: List of objects. Name of each attributes within each entries should match the Yang name except hyphen is replaced with underscore. Using hyphen in the name may result in erroneous behavior based on Ansible parsing.

required: True

type: list

delete_entries: name of the entries to be deleted. mutually exclusive with entries.

required: False

type: any

2.13.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: list object example
  brocade_list_obj:
    credential: "{{credential}}"
    vfid: -1
    module_name: "brocade-snmp"
    list_name: "v1-account"
    all_entries: False
    entries:
      - index: 1
        community_name: "new name"
```

2.13.4 Return Values

msg: Success message
returned: success
type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.14 brocade_list_obj_facts

Brocade Fibre Channel generic facts gathering for list objects

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.14.1 Synopsis

Gather Fibre Channel FOS facts for objects that are defined as list in Yang

2.14.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

module_name: Yang module name. Hyphen or underscore are used interchangeably. If the Yang module name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

obj_name: Yang name for the list object. Hyphen or underscore are used interchangeably. If the Yang list name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

attributes: List of attributes for the object to match to return. Names match Yang rest attributes with “-” replaced with “_”. If none is given, the module returns all valid entries. Using hyphen in the name may result in erroneous behavior based on Ansible parsing.

required: optional

type: dict

2.14.3 Examples

```
vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False
    wwn_to_search: "11:22:33:44:55:66:77:88"

tasks:
```

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```
- name: gather device info
  brocade_list_obj_facts:
    credential: "{{credential}}"
    vfid: -1
    module_name: "brocade-name-server"
    list_name: "fibrechannel-name-server"
    attributes:
      port_name: "{{wmn_to_search}}"
- name: print ansible_facts gathered
  debug:
    var: ansible_facts
```

2.14.4 Return Values

msg: Success message

returned: success

type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.15 brocade_logging_audit

Brocade Fibre Channel logging audit configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.15.1 Synopsis

Update Fibre Channel logging audit configuration

2.15.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

audit: Audit config data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: dict

2.15.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial audit configuration
  brocade_logging_audit:
    credential: "{{credential}}"
    vfid: -1
    audit:
      audit_enabled: True
      filter_class_list:
        filter_class:
          - "zone"
          - "security"
          - "configuration"
          - "firmware"
          - "fabric"
          - "ls"
          - "cli"
          - "maps"
      severity_level: "info"
```

2.15.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.16 brocade_logging_syslog

Brocade Fibre Channel logging syslog server configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.16.1 Synopsis

Update Fibre Channel logging audit configuration

2.16.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

all_entries: Boolean to indicate if the entries specified are full list of objects or not. By default, all_entries are thought to be true if not specified. If all_entries is set to true, the entries is used to calculate the change of existing entries, addition, and deletion. If all_entries is set to false, the entries is used to calculate the change of existing entries and addition of entries only. i.e. the module will not attempt to delete objects that do not show up in the entries.

required: False

type: bool

syslog_servers: List of syslog server config data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.16.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial syslog configuration
  brocade_logging_syslog_server:
    credential: "{{credential}}"
    vfid: -1
    syslog_servers:
      - port: 514
        secure_mode: False
        server: "10.155.2.151"
```

2.16.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.17 brocade_maps_maps_config

Brocade Fibre Channel MAPS configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.17.1 Synopsis

Update Fibre Channel MAPS configuration

2.17.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

maps_config: List of MAPS configuration attributes. All writable attributes supported by BSN REST API with - replaced with _. Some examples are - description - description string

required: True

type: dict

2.17.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: configure relay server
  brocade_maps_maps_config:
    credential: "{{credential}}"
    vfid: -1
    maps_config:
      relay_ip_address: "10.10.10.10"
      domain_name: "d.com"
      sender_address: "s@d.com"
      recipient_address_list:
      recipient_address:
        - "r@d.com"
        - "r@r.com"
```

2.17.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.18 brocade_maps_maps_policy

Brocade Fibre Channel MAPS policy configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.18.1 Synopsis

Update Fibre Channel MAPS policy

2.18.2 Parameters

credential: login information including fos_ip_addr - ip address of the FOS switch fos_user_name - login name of FOS switch REST API fos_password - password of FOS switch REST API https - True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: dict

vfid: vfid of the switch to target. The value can be -1 for FOS without VF enabled. For VF enabled FOS, a valid vfid should be given

required: False

type: any

throttle: rest throttling delay in seconds to retry once more if server is busy.

required: False

type: any

timeout: rest timeout in seconds for operations taking longer than default timeout.

required: False

type: any

maps_policies: list of policies to be updated. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: any

2.18.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False
tasks:

- name: maps policies
  brocade_maps_maps_policy:
    credential: "{{credential}}"
    vfid: -1
    map_policies:
      - name: my_policy
        is_active_policy: False
        rule_list:
          rule:
            - my_rule1
            - my_rule2
```

2.18.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.19 brocade_maps_rule

Brocade Fibre Channel MAPS rule configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.19.1 Synopsis

Update Fibre Channel MAPS rule

2.19.2 Parameters

credential: login information including fos_ip_addr - ip address of the FOS switch fos_user_name - login name of FOS switch REST API fos_password - password of FOS switch REST API https - True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: dict

vfid: vfid of the switch to target. The value can be -1 for FOS without VF enabled. For VF enabled FOS, a valid vfid should be given

required: False

type: any

throttle: rest throttling delay in seconds to retry once more if server is busy.

required: False

type: any

timeout: rest timeout in seconds for operations taking longer than default timeout.

required: False

type: any

rules: list of rules to be updated. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: any

2.19.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False
tasks:

- name: configure maps rules
  brocade_maps_rule:
    credential: "{{credential}}"
    vfid: -1
    rules:
      - name: my_rule1
        actions:
          action:
            - "raslog"
        event_severity: null
        group_name: "ALL_E_PORTS"
        is_rule_on_rule: False
        logical_operator: "g"
        monitoring_system: "C3TXT0"
        quiet_time: 0
        threshold_value: 1
        time_base: "Min"
```

2.19.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.20 brocade_operation_firmwaredownload

Brocade Fibre Channel operation firmwaredownload

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.20.1 Synopsis

Initiate Fibre Channel firmwaredownload

2.20.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

firmwaredownload: Firmware parameters

required: True

type: dict

2.20.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initiate firmwaredownload
  brocade_operation_firmwaredownload:
    credential: "{{credential}}"
    vfid: -1
    firmwaredownload:
      host:
      user_name:
      password:
      remote_directory:
      protocol:
      port:
      stage:
      activate:
```

2.20.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.21 brocade_operation_show_status

Brocade Fibre Channel operation status retrieval

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.21.1 Synopsis

Retrieve Fibre Channel operation status

2.21.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

show_status: Message id information

required: True

type: dict

2.21.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: show operation status
  brocade_operation_show_status:
    credential: "{{credential}}"
    vfid: -1
    show_status:
      message_id:
```

2.21.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.22 brocade_operation_supportsave

Brocade Fibre Channel operation supportsave

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.22.1 Synopsis

Initiate Fibre Channel supportsave operation

2.22.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

supportsave: Supportsave parameters

required: True

type: dict

2.22.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: Initiate supportsave
  brocade_operation_supportsave:
    credential: "{{credential}}"
    vfid: -1
    supportsave:
      host:
      user_name:
      password:
      remote_directory:
      protocol:
      port:
```

2.22.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.23 brocade_security_ipfilter_policy

Brocade Fibre Channel security ipfilter policy configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.23.1 Synopsis

Update Fibre Channel security ipfilter policy configuration

2.23.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

ipfilter_policies: List of ipfilter policies data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: False

type: list

active_policy: Name of the active policy. Mutually exclusive with ipfilter_policies and delete_policy. This should come after policies are created and filled with rules

required: False

type: str

delete_policies: Name of the policy to be deleted. Mutually exclusive with ipfilter_policies and active_policy.

required: False

type: list

2.23.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
```

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```

- name: activate default ipv4 before deleting previously created custom policy
  brocade_security_ipfilter_policy:
    credential: "{{credential}}"
    vfid: -1
    active_policy: "default_ipv4"

- name: delete custom policy
  brocade_security_ipfilter_policy:
    credential: "{{credential}}"
    vfid: -1
    delete_policies:
      - name: "ipv4_telnet_http"

```

2.23.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.24 brocade_security_ipfilter_rule

Brocade Fibre Channel security ipfilter rule Configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.24.1 Synopsis

Update Fibre Channel security ipfilter rule configuration

2.24.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

ipfilter_rules: List of ipfilter rules data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.24.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: ipfilter policy is created or present
  brocade_security_ipfilter_policy:
    credential: "{{credential}}"
    vfid: -1
    ipfilter_policies:
      - name: "ipv4_telnet_http"
        ip_version: "IPv4"

- name: ipfilter rules are created or present
  brocade_security_ipfilter_rule:
    credential: "{{credential}}"
    vfid: -1
    ipfilter_rules:
      - policy_name: "ipv4_telnet_http"
        index: 1
        destination_end_port: 22
        destination_ip: "any"
        destination_start_port: 22
        permission: "permit"
        protocol: "tcp"
        source_ip: "any"
        traffic_type: "INPUT"
      - policy_name: "ipv4_telnet_http"
        index: 2
        destination_end_port: 23
        destination_ip: "any"
        destination_start_port: 23
        permission: "deny"
        protocol: "tcp"
        source_ip: "any"
        traffic_type: "INPUT"
      - policy_name: "ipv4_telnet_http"
        index: 3
        destination_end_port: 80
        destination_ip: "any"
        destination_start_port: 80
        permission: "permit"
        protocol: "tcp"
        source_ip: "any"
        traffic_type: "INPUT"
```

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```
- policy_name: "ipv4_telnet_http"
  index: 4
  destination_end_port: 443
  destination_ip: "any"
  destination_start_port: 443
  permission: "permit"
  protocol: "tcp"
  source_ip: "any"
  traffic_type: "INPUT"
- policy_name: "ipv4_telnet_http"
  index: 5
  destination_end_port: 161
  destination_ip: "any"
  destination_start_port: 161
  permission: "permit"
  protocol: "udp"
  source_ip: "any"
  traffic_type: "INPUT"
- policy_name: "ipv4_telnet_http"
  index: 6
  destination_end_port: 123
  destination_ip: "any"
  destination_start_port: 123
  permission: "permit"
  protocol: "udp"
  source_ip: "any"
  traffic_type: "INPUT"
- policy_name: "ipv4_telnet_http"
  index: 7
  destination_end_port: 1023
  destination_ip: "any"
  destination_start_port: 600
  permission: "permit"
  protocol: "tcp"
  source_ip: "any"
  traffic_type: "INPUT"
- policy_name: "ipv4_telnet_http"
  index: 8
  destination_end_port: 1023
  destination_ip: "any"
  destination_start_port: 600
  permission: "permit"
  protocol: "udp"
  source_ip: "any"
  traffic_type: "INPUT"
- policy_name: "ipv4_telnet_http"
  index: 9
  destination_end_port: 389
  destination_ip: "any"
  destination_start_port: 389
  permission: "permit"
  protocol: "tcp"
```

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```

    source_ip: "any"
    traffic_type: "INPUT"
- policy_name: "ipv4_telnet_http"
  index: 10
  destination_end_port: 389
  destination_ip: "any"
  destination_start_port: 389
  permission: "permit"
  protocol: "udp"
  source_ip: "any"
  traffic_type: "INPUT"

- name: ipfilter policy is activated or active already
  brocade_security_ipfilter_policy:
    credential: "{{credential}}"
    vfid: -1
    active_policy: "ipv4_telnet_http"

```

2.24.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.25 brocade_security_ldap_role_map

Brocade Fibre Channel security LDAP role map configuration

- Synopsis*
- Parameters*
- Examples*
- Return Values*

2.25.1 Synopsis

Update Fibre Channel security LDAP role map configuration

2.25.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

ldap_role_map: List of LDAP roles data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.25.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: LDAP role map
  brocade_security_ldap_role_map:
    credential: "{{credential}}"
    vfid: -1
    ldap_role_map:
      - ldap_role: "ROLEXYZ"
        switch_role: "admin"
```

2.25.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.26 brocade_security_password

Brocade Fibre Channel security password change

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.26.1 Synopsis

Update password for a given user

2.26.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

password: Password change attributes. - user_name - name of the account. - old_password - old password in clear text. - new_password - new password in clear text.

required: True

type: dict

2.26.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: change password
  brocade_security_password:
    credential: "{{credential}}"
    vfid: -1
    password:
      user_name: user
      old_password: oldpassword
      new_password: newpassword
```

2.26.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.27 brocade_security_sec_crypto_template_action

Brocade Fibre Channel security crypto template file actions

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.27.1 Synopsis

Use to perform actions on the crypto template files. The module performs the action each time and is not idempotent.

2.27.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

action_inputs: Action attributes

required: True

type: dict

2.27.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: import/export/apply cfg template
  brocade_security_sec_crypto_cfg_template_action
  credential: "{{credential}}"
  vfid: -1
  action_inputs:
```

2.27.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.28 brocade_security_security_certificate_action

Brocade Fibre Channel third-party certificate installation

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.28.1 Synopsis

Use to import or export certificate

2.28.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

action_inputs: Action attributes

required: True

type: dict

2.28.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: import or export certificate
  brocade_security_security_certificate_action:
    credential: "{{credential}}"
    vfid: -1
    action_inputs:
```

2.28.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.29 brocade_security_security_certificate_generate

Brocade Fibre Channel security CSR or certificate generation like HTTPS, LDAP, etc

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.29.1 Synopsis

Use to generate CSR or certificate

2.29.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

generate_inputs: Attributes used to generate CSR or CERT

required: True

type: dict

2.29.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: CSR or certificate generation
  brocade_security_security_certificate_generate:
    credential: "{{credential}}"
    vfid: -1
    generate_inputs:
```

2.29.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.30 brocade_security_ssh_public_key

Brocade Fibre Channel security ssh public key delete

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.30.1 Synopsis

Use to delete public key

2.30.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

delete_sshutil_public_key: List of user names to delete the keys

required: False

type: list

2.30.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxx
    https: False

tasks:
- name: delete public key for admin
  brocade_security_user_config:
    credential: "{{credential}}"
    vfid: -1
  delete_sshutil_public_key:
    - user-name: "admin"
```

2.30.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.31 brocade_security_sshutil_public_key_action

Brocade Fibre Channel public key export or import

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.31.1 Synopsis

Use to export or import public keys

2.31.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

action_inputs: Action attributes

required: True

type: dict

2.31.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: public key import or export
  brocade_security_sshutil_public_key_action:
    credential: "{{credential}}"
    vfid: -1
    action_inputs:
```

2.31.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.32 brocade_security_user_config

Brocade Fibre Channel security user configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.32.1 Synopsis

Update Fibre Channel security user configuration

2.32.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

user_configs: List of user config data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: False

type: list

delete_user_configs: List of user config data structure to be deleted

required: False

type: list

2.32.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxx
    https: False

tasks:
- name: disable root & user
  brocade_security_user_config:
    credential: "{{credential}}"
    vfid: -1
    user_configs:
      - name: "user"
        account_enabled: False
      - name: "root"
        account_enabled: False

- name: add new account
  brocade_security_user_config:
    credential: "{{credential}}"
    vfid: -1
    user_configs:
      - name: "myaccount"
        password: "bXlwYXNzd29yZA=="
        virtual_fabric_role_id_list:
          role_id:
            - "admin=1-128"
        chassis_access_role: "admin"
      - name: "youraccount"
        password: "bXlwYXNzd29yZA=="
        virtual_fabric_role_id_list:
          role_id:
            - "admin=1-128"
        chassis_access_role: "admin"

- name: delete accounts
  brocade_security_user_config:
    credential: "{{credential}}"
    vfid: -1
    delete_user_configs:
      - name: "myaccount"
```

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```
- name: "youraccount"
```

2.32.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.33 brocade_singleton_obj

Brocade Fibre Channel generic handler for singleton object

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.33.1 Synopsis

Update list of attributes based on module name and object name provided

2.33.2 Parameters

credential: Login information
required: True
type: dict
fos_ip_addr: IP address of the FOS switch
required: True
type: str
fos_user_name: Login name of FOS switch
required: True
type: str
fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

module_name: Yang module name. Hyphen or underscore are used interchangeably. If the Yang module name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

obj_name: Yang name for the object. Hyphen or underscore are used interchangeably. If the Yang list name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

attributes: List of attributes for the object. names match rest attributes with “-” replaced with “_”. Using hyphen in the name may result in erroneous behavior based on ansible parsing. - Special node for “brocade-security” module “password” object “old_password” and “new_password” are in plain text. If “user_name” is user account, only “new_password” is needed.

required: True

type: dict

2.33.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: change password
  brocade_singleton_obj:
    credential: "{{credential}}"
    vfid: -1
    module_name: "brocade-security"
    obj_name: "password"
    attributes:
      user_name: "user"
      new_password: "xxxx"
      old_password: "yyyy"
```

2.33.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.34 brocade_singleton_obj_facts

Brocade Fibre Channel generic facts gathering for singleton objects

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.34.1 Synopsis

Gather Fibre Channel FOS facts for singleton obj

2.34.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

module_name: Yang module name. Hyphen or underscore are used interchangeably. If the Yang module name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

obj_name: Yang name for the object. Hyphen or underscore are used interchangeably. If the Yang list name is xy-z, either xy-z or xy_z are acceptable.

required: True

type: str

2.34.3 Examples

```
vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: gather device info
  brocade_list_obj_facts:
    credential: "{{credential}}"
    vfid: -1
    module_name: "brocade-snmp"
    obj_name: "system"
- name: print ansible_facts gathered
  debug:
    var: ansible_facts
```

2.34.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.35 brocade_snmp_system

Brocade Fibre Channel SNMP system configuration

- *Synopsis*
- *Parameters*
- *Examples*

- *Return Values*

2.35.1 Synopsis

Update Fibre Channel SNMP system configuration.

2.35.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

snmp_system: List of snmp system attributes. All writable attributes supported by BSN REST API with - replaced with _. Some examples are - description - Description string

required: True

type: dict

2.35.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial snmp system configuration
  brocade_snmp_system:
    credential: "{{credential}}"
    vfid: -1
    snmp_system:
      audit_interval: 60
      contact: "Field Support."
      description: "DemoSwitch"
      encryption_enabled: False
      informs_enabled: False
      location: "San Jose"
      security_get_level: 0
      security_set_level: 3
      snmpv1_enabled: True
```

2.35.4 Return Values

msg: Success message

returned: success

type: str

Authors

- Broadcom BSN Ansible Team <Automation.BSN@broadcom.com>

2.36 brocade_snmp_v1_account

Brocade Fibre Channel SNMP v1 account configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.36.1 Synopsis

Update Fibre Channel SNMP v1 account

2.36.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

v1_accounts: List of v1 accounts to be updated. All writable attributes supported by BSN REST API with
- replaced with _.

required: True

type: list

2.36.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: snmp v1 accounts
  brocade_snmp_v1_account:
    credential: "{{credential}}"
    vfid: -1
    v1_accounts:
      - index: 1
        community_name: "secret code"
      - index: 2
        community_name: "oem"
```

2.36.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.37 brocade_snmp_v1_trap

Brocade Fibre Channel SNMP v1 trap configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.37.1 Synopsis

Update Fibre Channel SNMP v1 trap

2.37.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

v1_traps: List of v1 traps to be updated. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.37.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: snmp v1 traps
  brocade_snmp_v1_trap:
    credential: "{{credential}}"
    vfid: -1
    v1_traps:
      - index: 1
        host: "10.10.10.10"
        port_number: 1010
        trap_severity_level: "warning"
```

2.37.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.38 brocade_snmp_v3_account

Brocade Fibre Channel SNMP v3 account configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.38.1 Synopsis

Update Fibre Channel SNMP v3 account

2.38.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

v3_accounts: List of v3 accounts to be updated. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.38.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: snmp v3 accounts
  brocade_snmp_v3_account:
    credential: "{{credential}}"
    vfid: -1
    v3_accounts:
      - index: 1
        authentication_protocol: "md5"
        manager_engine_id: "00:00:00:00:00:00:00:00:00"
        privacy_protocol: "aes128"
        user_name: "asc-test"
      - index: 2
        authentication_protocol: "sha"
        manager_engine_id: "00:00:00:00:00:00:00:00:00"
        privacy_protocol: "des"
        user_name: "snmpadmin2"
```

2.38.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.39 brocade_snmp_v3_trap

Brocade Fibre Channel SNMP v3 trap configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.39.1 Synopsis

Update Fibre Channel SNMP v3 trap

2.39.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

v3_traps: List of v3 traps to be updated. All writable attributes supported by BSN REST API with - replaced with _.

required: True

type: list

2.39.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: snmp v3 traps
  brocade_snmp_v3_trap:
    credential: "{{credential}}"
    vfid: -1
    v3_traps:
      - trap_index: 1
        host: "10.10.10.11"
        informs_enabled: true
        port_number: 1011
        trap_severity_level: "warning"
        usm_index: 1
```

2.39.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.40 brocade_time_clock_server

Brocade Fibre Channel time clock server configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.40.1 Synopsis

Update time clock server configuration

2.40.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

clock_server: Clock server data structure containing ntp servers. WARNING - If ntp servers are not reachable, the operation may result in time out and playbook returning failure. All writable attributes supported by BSN REST API with - replaced with _.

required: False

type: dict

2.40.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial clock server configuration
  brocade_time_clock_server:
    credential: "{{credential}}"
    vfid: -1
    clock_server:
      ntp_server_address:
        server_address:
          - "10.38.2.80"
          - "10.38.2.81"
```

2.40.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.41 brocade_time_time_zone

Brocade Fibre Channel time zone configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.41.1 Synopsis

Update time zone configuration

2.41.2 Parameters

credential: Login information

required: True
type: dict

fos_ip_addr: IP address of the FOS switch

required: True
type: str

fos_user_name: Login name of FOS switch

required: True
type: str

fos_password: Password of FOS switch

required: True
type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

time_zone: Time zone data structure. All writable attributes supported by BSN REST API with - replaced with _.

required: False

type: dict

2.41.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: xxxx
    https: False

tasks:
- name: initial time zone configuration
  brocade_time_time_zone:
    credential: "{{credential}}"
    vfid: -1
    time_zone:
      name: "America/Chicago"
```


2.41.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.42 brocade_zoning_alias

Brocade Fibre Channel zoning alias configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.42.1 Synopsis

Create, destroy, or update aliases. The whole of aliases and aliases_to_delete are applied to FOS within a single login session to terminate after the completion. If no active cfg is found, cfgsave is executed before the completion of the session. If an active cfg is found, cfgenable of the existing cfg is executed to apply any potential changes before the completion of the session.

2.42.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

aliases: List of aliases to be created or modified. If an alias does not exist in the current Zone Database, the alias will be created with the members specified. If an alias already exist in the current Zone Database, the alias is updated to reflect to members specified. In other word, new members will be added and removed members will be removed. If no aliases_to_delete are listed, aliases is required. aliases_to_delete and aliases are mutually exclusive.

required: False

type: list

members_add_only: If set to True, new members will be added and old members not specified also remain.

required: False

type: bool

members_remove_only: If set to True, members specified are removed.

required: False

type: bool

aliases_to_delete: List of aliases to be deleted. If no aliases are listed, aliases_to_delete is required. aliases_to_delete and aliases are mutually exclusive.

required: False

type: list

2.42.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False
  aliases:
    - name: Host1
      members:
        - 11:22:33:44:55:66:77:88
    - name: Target1
      members:
        - 22:22:33:44:55:66:77:99
    - name: Target2
      members:
        - 22:22:33:44:55:66:77:aa
    - name: Target3
      members:
        - 22:22:33:44:55:66:77:bb
  aliases_to_delete:
    - name: Target1
    - name: Target2
    - name: Target3

tasks:
- name: Create aliases
  brocade_zoning_alias:
    credential: "{{credential}}"
    vfid: -1
    aliases: "{{aliases}}"
    aliases_to_delete: "{{aliases_to_delete}}"
```

2.42.4 Return Values

```
msg: Success message
returned: success
type: str
```

Authors

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2.43 brocade_zoning_alias_facts_by_wwn

Brocade Fibre Channel facts gathering of zoning by WWN

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.43.1 Synopsis

Gather Fibre Channel FOS facts

2.43.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

wwn: WWN to search in the aliases within Zone DB.

required: True

type: str

2.43.3 Examples

```
vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False
    wwn_to_search: "11:22:33:44:55:66:77:88"

tasks:
- name: gather device alias info
  brocade_zoning_alias_facts_by_wwn:
    credential: "{{credential}}"
    vfid: -1
    wwn: "{{wwn_to_search}}"
- name: print device alias information matching port_name
  debug:
    var: ansible_facts['alias']
  when: ansible_facts['alias'] is defined
```

2.43.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.44 brocade_zoning_cfg

Brocade Fibre Channel zoning cfg configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.44.1 Synopsis

Create, destroy, or update cfgs. The whole of `cfgs` and `cfgs_to_delete` are applied to FOS within a single login session to terminate after the completion. If no active cfg is found, `cfgsave` is executed before the completion of the session. If an active cfg is found, `cfgenable` of the existing cfg is executed to apply any potential changes before the completion of the session.

2.44.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

cfgs: List of cfgs to be created or modified. If an cfg does not exist in the current Zone Database, the cfg will be created with the members specified. If an cfg already exists in the current Zone Database, the cfg is updated to reflect to members specified. In other word, new members will be added and removed members will be removed. cfgs and cfgs_to_delete are mutually exclusive.

required: False

type: list

members_add_only: If set to True, new members will be added and old members not specified also remain.

required: False

type: bool

members_remove_only: If set to True, members specified are removed.

required: False

type: bool

cfgs_to_delete: List of cfgs to be deleted. cfgs and cfgs_to_delete are mutually exclusive.

required: False

type: list

active_cfg: Cfg to be enabled (cfg_enable) at the end. If no cfg is specified, cfgs are saved (cfg_save).

required: False

type: str

2.44.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False
```

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```

cfgs:
  - name: newcfg1
    members:
      - NewZoneName
      - NewZoneName2
  - name: newcfg2
    members:
      - NewZoneName
      - NewZoneName2
  - name: newcfg3
    members:
      - NewZoneName
      - NewZoneName2
cfgs_to_delete:
  - name: newcfg2
  - name: newcfg3

tasks:
  - name: Create cfgs
    brocade_zoning_cfg:
      credential: "{{credential}}"
      vfid: -1
      cfgs: "{{cfgs}}"
#   cfgs_to_delete: "{{cfgs_to_delete}}"
      active_cfg: newcfg2

```

2.44.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.45 brocade_zoning_cfg_disable

Brocade Fibre Channel zoning disable configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.45.1 Synopsis

Disable the cfigs that was effective.

2.45.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

disable_cfig: Cfg to be disabled.

required: False

type: bool

2.45.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: Disable cfs
  brocade_zoning_cfg_disable:
    credential: "{{credential}}"
    vfid: -1
```

2.45.4 Return Values

msg: Success message
returned: success
type: str

Authors

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2.46 brocade_zoning_copy

Brocade Fibre Channel zoning object copy

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.46.1 Synopsis

Mimics zoneObjectCopy functionalities. The module is used to confirm that an existing object's and the new object's contents match. If they do not, the new object may be created or overwritten to match the contents. If an existing object is Target Driven Zone, the module will error out. If objects do not match in terms of type (Alias, Zone, or Cfg), the module will error out.

2.46.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

object_name: Name of the object to copy from.

required: True

type: str

new_name: Name of the object to copy to.

required: True

type: str

2.46.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: copy alias
  brocade_zoning_copy:
    credential: "{{credential}}"
    vfid: -1
    object_name: old_alias
    new_name: new_alias
```

2.46.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.47 brocade_zoning_default_zone

Brocade Fibre Channel zoning default zone configuration

- *Synopsis*
- *Parameters*
- *Examples*

- *Return Values*

2.47.1 Synopsis

Update Fibre Channel zoning's default zone configuration

2.47.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

default_zone_access: Default zone access mode. "allaccess" to indicate all access "noaccess" to indicate no access.

required: False

type: str

2.47.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False

tasks:
- name: Default zoning
  brocade_zoning_default_zone:
    credential: "{{credential}}"
    vfid: -1
    default_zone_access: allaccess
```

2.47.4 Return Values

msg: Success message

returned: success

type: str

Authors

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2.48 brocade_zoning_zone

Brocade Fibre Channel zone configuration

- *Synopsis*
- *Parameters*
- *Examples*
- *Return Values*

2.48.1 Synopsis

Create, destroy, or update zones. The whole of zones and zones_to_delete are applied to FOS within a single login session to terminate after the completion. If no active cfg is found, cfigsave is executed before the completion of the session. If an active cfg is found, cfigenable of the existing cfg is executed to apply any potential changes before the completion of the session.

2.48.2 Parameters

credential: Login information

required: True

type: dict

fos_ip_addr: IP address of the FOS switch

required: True

type: str

fos_user_name: Login name of FOS switch

required: True

type: str

fos_password: Password of FOS switch

required: True

type: str

https: Encryption to use. True for HTTPS, self for self-signed HTTPS, or False for HTTP

required: True

type: str

choices:

True

False

self

vfid: VFID of the switch. Use -1 for FOS without VF enabled or AG.

required: False

type: int

throttle: Throttling delay in seconds. Enables second retry on first failure.

required: optional

type: int

timeout: REST timeout in seconds for operations that take longer than FOS default value.

required: optional

type: int

zones: List of zones to be created or modified. If a zone does not exist in the current Zone Database, the zone will be created with the members specified. If a zone already exist in the current Zone Database, the zone is updated to reflect to members specified. In other word, new members will be added and removed members will be removed. Peerzones are automatically created only if optional principal members are specified. zones and zones_to_delete are mutually exclusive.

required: True

type: list

members_add_only: If set to True, new members will be added and old members not specified also remain

required: False

type: bool

members_remove_only: If set to True, members specified are removed

required: False

type: bool

zones_to_delete: List of zones to be deleted. zones and zones_to_delete are mutually exclusive.

required: True

type: list

2.48.3 Examples

```
gather_facts: False

vars:
  credential:
    fos_ip_addr: "{{fos_ip_addr}}"
    fos_user_name: admin
    fos_password: password
    https: False
  zones:
    - name: NewZoneName
      members:
        - Host1
        - Target1
        - Target2
    - name: NewZoneName2
      members:
        - Host1
        - Target2
    - name: NewZoneNameP
      members:
        - 11:22:33:44:55:66:77:88
      principal_members:
        - 22:22:33:44:55:66:77:88
  zones_to_delete:
    - name: NewZoneNameP
    - name: NewZoneName2
```

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```
tasks:
- name: Create zones
  brocade_zoning_zone:
    credential: "{{credential}}"
    vfid: -1
    zones: "{{zones}}"
#    zones_to_delete: "{{zones_to_delete}}"
```

2.48.4 Return Values

msg: Success message

returned: success

type: str

Authors

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FOS-ANSIBLE TEST VERSION MATRIX

The following are the tested ansible releases against the FOS versions. The notes section provide the details on the exceptions and release notes.

FOS-ansible	FOS	Notes
1.3.0	8.2.3a	The minimum FOS version for module firmwaredownload is v9.0.0.
1.3.1	8.2.3c, 9.0.1d, 9.1.1a	The minimum FOS version for module firmwaredownload is v9.0.0.
1.3.2	9.0.1e, 9.1.1b	

DOCUMENTATION

To build documentation

1. Install dependent packages using

```
pip install -r docs/requirements.txt
```

2. Trigger a build using the Makefile located under the docs directory

```
cd docs  
make html
```

Tip: To fail the documentation on warnings with traceback use

```
make SPHINXOPTS=-WT html
```

3. Access the documentation by opening the `_build/index.html` in a web-browser

CONTRIBUTION

Contributors must sign and submit a CAA before a contribution can be accepted. Two CAAs are available, one for individual contributions and one for contributions made on behalf of an entity, e.g., an employer. Select the appropriate link below to electronically execute a CAA.

5.1 Contributor Assignment Agreement (“CAA”)

CAA - Individual: <https://na3.docusign.net/Member/PowerFormSigning.aspx?PowerFormId=7af19c0f-ae97-4b56-b950-fc4796860c79>

CAA - Entity: <https://na3.docusign.net/Member/PowerFormSigning.aspx?PowerFormId=f657df18-ed64-4c51-a8f2-618bbd17d355>