

Network Configuration Report

Router Configurations

Explanation and details about router configurations.

Router 1 Configurations

network: 172.168.1.0 0.0.0.31

network: 192.168.2.0 0.0.0.3

network: 192.168.10.1 0.0.0.255

network: 192.168.20.1 0.0.0.255

Interface: lo0, IP: 192.168.10.1 255.255.255.0

Interface: lo1, IP: 192.168.20.1 255.255.255.0

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Prompt for Router 1

Requirements: Strictly adhere to the following explicitly stated requirements; Write a simple Ansible playbook with separate tasks for each protocol and interface configurations with the following details; hosts: R1 Do not worry about the inventory file; Never provide explanations for the generated playbook; Do not use variables and templates to generate the playbooks; Ensure all generated playbooks adhere to yaml's rule of always starting a playbook with `---` and ending the playbook with a new line containing `...`; Always use ios_config module and ensure unsupported parameters are not generated;; Use `parents` argument to implement stanzas; when configuring interfaces, ensure you generate codes for only provided interfaces and always implement 'No Shutdown' for each interface; when configuring routing protocols, ensure you generate codes for only provided protocols and that the protocol is initialized only under the parents argument using the format `router protocol-type xx`. Also, DO NOT configure router id; set `replace` argument to block. `replace` argument should always be child to `ios_config`; Protocol: ospf OSPF Area: 1, Process ID: 1, Number of networks to advertise: 4 network1: 172.168.1.0 0.0.0.31 network2: 192.168.2.0 0.0.0.3 network3: 192.168.10.1 0.0.0.255 network4: 192.168.20.1 0.0.0.255 Interface: lo0, IP: 192.168.10.1 255.255.255.0 Interface: lo1, IP: 192.168.20.1 255.255.255.0

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Generated Playbook for Router 1

- name: Ansible playbook to automate Network Configuration

hosts: R1

gather_facts: no

tasks:

- name: Configure loopback interfaces

ios_config:

parents: interface {{ item.name }}

lines:

- ip address {{ item.ip }}

- no shutdown

replace: block

with_items:

- { name: 'lo0', ip: '192.168.10.1 255.255.255.0' }

- { name: 'lo1', ip: '192.168.20.1 255.255.255.0' }

- name: Configure OSPF Protocol

ios_config:

parents: router ospf 1

lines:

- network {{ item.net }} area 1

replace: block

with_items:

- { net: '172.168.1.0 0.0.0.31' }

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- { net: '192.168.2.0 0.0.0.3' }
- { net: '192.168.10.1 0.0.0.255' }
- { net: '192.168.20.1 0.0.0.255' }

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Router 2 Configurations

network: 192.168.2.0 0.0.0.3

network: 192.168.30.1 0.0.0.255

network: 192.168.4.0 0.0.0.3

network: 192.168.40.1 0.0.0.255

Interface: lo0, IP: 192.168.30.1 255.255.255.0

Interface: lo1, IP: 192.168.40.1 255.255.255.0

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Prompt for Router 2

Requirements: Strictly adhere to the following explicitly stated requirements; Write a simple Ansible playbook with separate tasks for each protocol and interface configurations with the following details; hosts: R2 Do not worry about the inventory file; Never provide explanations for the generated playbook; Do not use variables and templates to generate the playbooks; Ensure all generated playbooks adhere to yaml's rule of always starting a playbook with `---` and ending the playbook with a new line containing `...`; Always use ios_config module and ensure unsupported parameters are not generated;; Use `parents` argument to implement stanzas; when configuring interfaces, ensure you generate codes for only provided interfaces and always implement 'No Shutdown' for each interface; when configuring routing protocols, ensure you generate codes for only provided protocols and that the protocol is initialized only under the parents argument using the format `router protocol-type xx`. Also, DO NOT configure router id; set `replace` argument to block. `replace` argument should always be child to `ios_config`; Protocol: ospf OSPF Area: 1, Process ID: 1, Number of networks to advertise: 2 network1: 192.168.2.0 0.0.0.3 network2: 192.168.30.1 0.0.0.255 Protocol: eigrp EIGRP AS Number: 10, Number of networks to advertise: 2 network1: 192.168.4.0 0.0.0.3 network2: 192.168.40.1 0.0.0.255; Using dedicated tasks, Please redistribute the routing protocols using 'redistribute ospf 1 metric 1000 33 255 1 1500' for redistributing OSPF into EIGRP and 'redistribute eigrp 10 subnets' for redistributing EIGRP into OSPF; The redistribution tasks, should be generated after the routing protocol configuration tasks have been generated; Interface: lo0, IP: 192.168.30.1 255.255.255.0 Interface: lo1, IP: 192.168.40.1 255.255.255.0

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Generated Playbook for Router 2

- hosts: R2

gather_facts: no

tasks:

- name: configure lo0 interface

ios_config:

lines:

- ip address 192.168.30.1 255.255.255.0

- no shutdown

parents: interface lo0

replace: block

- name: configure lo1 interface

ios_config:

lines:

- ip address 192.168.40.1 255.255.255.0

- no shutdown

parents: interface lo1

replace: block

- name: configure OSPF

ios_config:

lines:

- network 192.168.2.0 0.0.0.3 area 1

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- network 192.168.30.1 0.0.0.255 area 1

parents: router ospf 1

replace: block

- name: configure EIGRP

ios_config:

lines:

- network 192.168.4.0 0.0.0.3

- network 192.168.40.1 0.0.0.255

parents: router eigrp 10

replace: block

- name: redistribute ospf into EIGRP

ios_config:

lines:

- redistribute ospf 1 metric 1000 33 255 1 1500

parents: router eigrp 10

replace: block

- name: redistribute EIGRP into OSPF

ios_config:

lines:

- redistribute eigrp 10 subnets

parents: router ospf 1

replace: block

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Router 3 Configurations

network: 192.168.4.0 0.0.0.3

network: 192.168.50.1 0.0.0.255

network: 192.168.6.0 0.0.0.3

network: 192.168.60.1 0.0.0.255

Interface: lo0, IP: 192.168.50.1 255.255.255.0

Interface: lo1, IP: 192.168.60.1 255.255.255.0

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Prompt for Router 3

Requirements: Strictly adhere to the following explicitly stated requirements; Write a simple Ansible playbook with separate tasks for each protocol and interface configurations with the following details; hosts: R3 Do not worry about the inventory file; Never provide explanations for the generated playbook; Do not use variables and templates to generate the playbooks; Ensure all generated playbooks adhere to yaml's rule of always starting a playbook with `---` and ending the playbook with a new line containing `...`; Always use ios_config module and ensure unsupported parameters are not generated;; Use `parents` argument to implement stanzas; when configuring interfaces, ensure you generate codes for only provided interfaces and always implement 'No Shutdown' for each interface; when configuring routing protocols, ensure you generate codes for only provided protocols and that the protocol is initialized only under the parents argument using the format `router protocol-type xx`. Also, DO NOT configure router id; set `replace` argument to block. `replace` argument should always be child to `ios_config`; Protocol: eigrp EIGRP AS Number: 10, Number of networks to advertise: 2 network1: 192.168.4.0 0.0.0.3 network2: 192.168.50.1 0.0.0.255 Protocol: ospf OSPF Area: 100, Process ID: 1, Number of networks to advertise: 2 network1: 192.168.6.0 0.0.0.3 network2: 192.168.60.1 0.0.0.255; Using dedicated tasks, Please redistribute the routing protocols using 'redistribute ospf 1 metric 1000 33 255 1 1500' for redistributing OSPF into EIGRP and 'redistribute eigrp 10 subnets' for redistributing EIGRP into OSPF; The redistribution tasks, should be generated after the routing protocol configuration tasks have been generated; Interface: lo0, IP: 192.168.50.1 255.255.255.0 Interface: lo1, IP: 192.168.60.1 255.255.255.0

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Generated Playbook for Router 3

- hosts: R3

gather_facts: no

tasks:

- name: config lo0 interface

ios_config:

lines:

- ip address 192.168.50.1 255.255.255.0

- no shutdown

parents: interface lo0

replace: block

- name: config lo1 interface

ios_config:

lines:

- ip address 192.168.60.1 255.255.255.0

- no shutdown

parents: interface lo1

replace: block

- name: config EIGRP

ios_config:

lines:

- network 192.168.4.0 0.0.0.3

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- network 192.168.50.1 0.0.0.255

parents: router eigrp 10

replace: block

- name: config OSPF

ios_config:

lines:

- network 192.168.6.0 0.0.0.3 area 100

- network 192.168.60.1 0.0.0.255 area 100

parents: router ospf 1

replace: block

- name: redistribute OSPF into EIGRP

ios_config:

lines:

- redistribute ospf 1 metric 1000 33 255 1 1500

parents: router eigrp 10

replace: block

- name: redistribute EIGRP to OSPF

ios_config:

lines:

- redistribute eigrp 10 subnets

parents: router ospf 1

replace: block

...

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Router 4 Configurations

network: 192.168.6.0 0.0.0.3

network: 192.168.70.1 0.0.0.255

network: 192.168.80.1 0.0.0.255

Interface: lo0, IP: 192.168.70.1 255.255.255.0

Interface: lo1, IP: 192.168.80.1 255.255.255.0

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Prompt for Router 4

Requirements: Strictly adhere to the following explicitly stated requirements; Write a simple Ansible playbook with separate tasks for each protocol and interface configurations with the following details; hosts: R4 Do not worry about the inventory file; Never provide explanations for the generated playbook; Do not use variables and templates to generate the playbooks; Ensure all generated playbooks adhere to yaml's rule of always starting a playbook with `---` and ending the playbook with a new line containing `...`; Always use ios_config module and ensure unsupported parameters are not generated;; Use `parents` argument to implement stanzas; when configuring interfaces, ensure you generate codes for only provided interfaces and always implement 'No Shutdown' for each interface; when configuring routing protocols, ensure you generate codes for only provided protocols and that the protocol is initialized only under the parents argument using the format `router protocol-type xx`. Also, DO NOT configure router id; set `replace` argument to block. `replace` argument should always be child to `ios_config`; Protocol: ospf OSPF Area: 100, Process ID: 1, Number of networks to advertise: 3 network1: 192.168.6.0 0.0.0.3 network2: 192.168.70.1 0.0.0.255 network3: 192.168.80.1 0.0.0.255 Interface: lo0, IP: 192.168.70.1 255.255.255.0 Interface: lo1, IP: 192.168.80.1 255.255.255.0

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Generated Playbook for Router 4

- hosts: R4

gather_facts: no

tasks:

- name: Configure Interfaces

ios_config:

lines:

- description "Configured by Ansible"
- ip address 192.168.70.1 255.255.255.0
- no shutdown

parents: interface lo0

replace: block

- name: Configure second Interface

ios_config:

lines:

- description "Configured by Ansible"
- ip address 192.168.80.1 255.255.255.0
- no shutdown

parents: interface lo1

replace: block

- name: Configure OSPF

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ios_config:

lines:

- network 192.168.6.0 0.0.0.3 area 100
- network 192.168.70.1 0.0.0.255 area 100
- network 192.168.80.1 0.0.0.255 area 100

parents: router ospf 1

replace: block

...