



Ansible Network Automation

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```
configure_bgp(net_connect, file_name=''):
"""Configure BGP on device."""
    output = net_connect.send_config_from_file(config_file=file_name)
    if net_connect.device_type == 'cisco_xr_ssh':
        output += net_connect.commit()
    return output
except IOError:
    print "Error reading file: {}".format(file_name)
start_time = datetime.now()
for a_device in device_list:
    as_number = a_device.pop('as_number')
    net_connect = ConnectHandler(**a_device)
    net_connect.enable()
    print "{}: {}".format(net_connect.device_type, net_connect.find_prompt())
    if check_bgp(net_connect):
        remove_bgp_config(net_connect, as_number=as_number)
        print "No BGP"
    # Check BGP is now gone
    if check_bap(net_connect):
        raise ValueError("BGP configuration still detected")
    # Construct file_name based on device_type
    device_type = net_connect.device_type
    file_name = 'bgp_' + device_type.split("_ssh")[0] + '.txt'
    # Configure BGP
    output = configure_bgp(net_connect, file_name)
    print output
    print
# Let BGP get established
time.sleep(3)
```