# 交换路由无线网关设备配置评分标准

## VSU（80分）

|  |  |
| --- | --- |
| BB-VSU-S6000#show switch virtual | 20 |
| BB-VSU-S6000#show switch virtual  Switch\_id Domain\_id Priority Position Status Role Description  ----------------------------------------------------------------------------------------------------------------  2(2) 1(1) 150(150) LOCAL OK ACTIVE S6000-2  1(1) 1(1) 120(120) REMOTE OK STANDBY S6000-1 | 每一行完全匹配各10分 |
| BB-VSU-S6000#show switch virtual dual-active bfd | 20 |
| BB-VSU-S6000#show switch virtual dual-active bfd  BFD dual-active detection enabled: Yes  BFD dual-active interface configured:  GigabitEthernet 1/0/48: UP  GigabitEthernet 2/0/48: UP | Yes得10分  端口正确，全up得10分 |
| BB-VSU-S6000#show ip ospf neighbor | 20 |
| BB-VSU-S6000#show ip ospf neighbor  OSPF process 10, 3 Neighbors, 3 is Full:  Neighbor ID Pri State BFD State Dead Time Address Interface  11.1.0.1 1 Full/ - - 00:00:35 10.1.0.10 AggregatePort 1  11.1.0.21 1 Full/BDR - 00:00:34 192.1.100.2 VLAN 100  11.1.0.22 1 Full/DROther - 00:00:34 192.1.100.3 VLAN 100 | 第一行完全匹配得10分  二三行完全匹配各5分  （二三行不能是DR） |
| BB-VSU-S6000#show aggregatePort summary | 10 |
| BB-VSU-S6000#show aggregatePort summary  AggregatePort MaxPorts SwitchPort Mode Load balance Ports  ------------- -------- ---------- ------ ---------------------------- -----------------------------------  Ag1 8 Disabled src-dst-mac Gi1/0/1 ,Gi2/0/1  Ag2 8 Enabled TRUNK src-dst-mac Gi1/0/2 ,Gi2/0/2  Ag3 8 Enabled TRUNK src-dst-mac Gi1/0/3 ,Gi2/0/3  Ag4 8 Enabled TRUNK src-dst-mac Gi1/0/4 ,Gi2/0/4 | 第一行完全匹配得4分  其它行完全匹配各2分 |
| BB-VSU-S6000#show ip inter brief | 10 |
| BB-VSU-S6000#show ip inter brief  Interface IP-Address(Pri) IP-Address(Sec) Status Protocol  GigabitEthernet 1/0/48 no address no address up down  GigabitEthernet 2/0/48 no address no address up down  AggregatePort 1 10.1.0.9/30 no address up up  Loopback 0 11.1.0.31/32 no address up up  VLAN 10 192.1.10.1/30 no address up up  VLAN 20 192.1.20.254/24 no address up up  VLAN 30 192.1.30.254/24 no address up up  VLAN 100 192.1.100.254/24 no address up up  Mgmt 1/0 no address no address down down  Mgmt 2/0 no address no address down down | 第3行、第4行完全匹配各2分。  其他行完全匹配各1分。 |

## S3（25分）

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| GZFB-S5750-01#show vrrp brief | 5 |
| GZFB-S5750-01#show vrrp brief  Interface Grp Pri timer Own Pre State Master addr Group addr  VLAN 10 10 120 3.53 - P Backup 193.1.10.253 193.1.10.254  VLAN 20 20 120 3.53 - P Backup 193.1.20.253 193.1.20.254  VLAN 30 30 120 3.53 - P Backup 193.1.30.253 193.1.30.254  VLAN 40 40 120 3.53 - P Backup 193.1.40.253 193.1.40.254  VLAN 100 100 120 3.53 - P Backup 193.1.100.253 193.1.100.254 | 每行完全匹配各1分 |
| GZFB-S5750-01#show ipv6 interface brief | 10 |
| GZFB-S5750-01#show ipv6 interface brief  VLAN 10 [up/up]  2001:193:10::252  FE80::5A69:6CFF:FE2C:7C79  VLAN 20 [up/up]  2001:193:20::252  FE80::5A69:6CFF:FE2C:7C79  VLAN 30 [up/up]  2001:193:30::252  FE80::5A69:6CFF:FE2C:7C79  VLAN 40 [up/up]  2001:193:40::252  FE80::5A69:6CFF:FE2C:7C79 | 每个Vlan与地址正确匹配各2.5分 |
| GZFB-S5750-01#show ipv6 vrrp brief | 10 |
| GZFB-S5750-01#show ipv6 vrrp brief  Interface Grp Pri timer Own Pre State Master addr Group addr  VLAN 10 10 120 3.53 - P Backup FE80::5A69:6CFF:FE2C:7E11 FE80::4  VLAN 20 20 120 3.53 - P Backup FE80::5A69:6CFF:FE2C:7E11 FE80::4  VLAN 30 30 120 3.53 - P Backup FE80::5A69:6CFF:FE2C:7E11 FE80::4  VLAN 40 40 120 3.53 - P Backup FE80::5A69:6CFF:FE2C:7E11 FE80::4 | 每行完全匹配得2.5分 |

## S4（15分）

|  |  |
| --- | --- |
| GZFB-S5750-02#show ip ospf neighbor | 10 |
| GZFB-S5750-02#show ip ospf neighbor  OSPF process 10, 2 Neighbors, 2 is Full:  Neighbor ID Pri State Dead Time Address Interface  11.1.0.11 1 Full/ - 00:00:35 10.1.0.6 GigabitEthernet 0/24  193.1.100.252 1 Full/ - 00:00:35 193.1.100.252 VLAN 100 | 每行完全匹配各5分 |
| GZFB-S5750-02#show ip ospf interface vlan 10 | 5 |
| GZFB-S5750-02#show ip ospf interface vlan 10  VLAN 10 is up, line protocol is up  Internet Address 193.1.10.253/24, Ifindex 4106, Area 0.0.0.0, MTU 1500  Matching network config: 193.1.10.253/32  Process ID 10, Router ID 11.1.0.34, Network Type BROADCAST, Cost: 1  Transmit Delay is 1 sec, State DROther, Priority 1  No designated router on this network  No backup designated router on this network  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5  No Hellos (Passive interface)  Neighbor Count is 0, Adjacent neighbor count is 0  Crypt Sequence Number is 63  Hello received 0 sent 0, DD received 0 sent 0  LS-Req received 0 sent 0, LS-Upd received 0 sent 0  LS-Ack received 0 sent 0, Discarded 0 | 完全匹配得5分 |

## S5（20分）

|  |  |
| --- | --- |
| JLFB-S5750-01#show interface gigabitEthernet 0/1 | be Bridge attributes | 20 |
| JLFB-S5750-01#show interface gigabitEthernet 0/1 | be Bridge attributes  Bridge attributes:  Port-type: trunk  Native vlan: 10  Allowed vlan lists: 10,20  Active vlan lists: 10,20  Rxload is 1/255, Txload is 1/255  10 seconds input rate 1120 bits/sec, 0 packets/sec  10 seconds output rate 288 bits/sec, 0 packets/sec  5403 packets input, 1206124 bytes, 0 no buffer, 0 dropped  Received 45 broadcasts, 0 runts, 0 giants  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 abort  9822 packets output, 1241198 bytes, 0 underruns , 0 dropped  0 output errors, 0 collisions, 0 interface resets | 每行完全匹配得4分 |

## S6（95分）

|  |  |
| --- | --- |
| GZFB-S2910-1#show version | 25 |
| GZFB-S2910-1#show version  System description : Ruijie 10G Ethernet Switch(S2910-24GT4XS-E) By Ruijie Networks  System start time : 2018-08-29 09:11:04  System uptime : 0:09:28:10  System hardware version : 1.10  System software version : S2910\_RGOS 11.4(1)B1P3  System patch number : NA  System serial number : G1LD1ES009751  System boot version : 1.2.13  Module information:  Slot 0 : S2910-24GT4XS-E  Hardware version : 1.10  Boot version : 1.2.13  Software version : S2910\_RGOS 11.4(1)B1P3  Serial number : G1LD1ES009751 | 完全匹配得25分 |
| GZFB-S2910-1#show interface switchport | include TRUNK | 10 |
| GZFB-S2910-1#show interface switchport | include TRUNK  GigabitEthernet 0/1 enabled TRUNK 1 10 Disabled 10,20  GigabitEthernet 0/2 enabled TRUNK 1 10 Disabled 10,20  GigabitEthernet 0/3 enabled TRUNK 1 10 Disabled 10,20  GigabitEthernet 0/4 enabled TRUNK 1 10 Disabled 10,20  GigabitEthernet 0/23 enabled TRUNK 1 1 Disabled 10,20,30,40,100  GigabitEthernet 0/24 enabled TRUNK 1 1 Disabled 10,20,30,40,100 | 前4行完全匹配各2分  后2行完全匹配各1分 |
| GZFB-S2910-1#show run interface gigabitEthernet 0/13 | 20 |
| GZFB-S2910-1#show run interface gigabitEthernet 0/13  Building configuration...  Current configuration: 370 bytes  interface GigabitEthernet 0/13  errdisable recovery interval 300  switchport protected  switchport access vlan 40  spanning-tree bpduguard enable  spanning-tree portfast  rate-limit input 10000 1024  rldp port loop-detect shutdown-port  switchport port-security mac-address 48ba.4e5b.05f3 vlan 40  switchport port-security maximum 1  switchport port-security | 每行完全匹配得2分 |
| GZFB-S2910-1#show ip dhcp snooping | 5 |
| GZFB-S2910-1#show ip dhcp snooping  Switch DHCP snooping status : ENABLE  DHCP snooping Verification of hwaddr status : DISABLE  DHCP snooping database write-delay time : 0 seconds  DHCP snooping option 82 status : DISABLE  DHCP snooping Support bootp bind status : DISABLE  Interface Trusted Rate limit (pps)  ------------------------ ------- ----------------  GigabitEthernet 0/23 YES unlimited  GigabitEthernet 0/24 YES unlimited  Default No unlimited | Enable得1分  其它每行完全匹配各2分 |
| GZFB-S2910-1#show nfpp log summary | 10 |
| GZFB-S2910-1#show nfpp log summary  Total log buffer size : 1024  Syslog rate : 1 entry per 300 seconds  Logging: | 完全匹配得10分 |
| GZFB-S2910-1#show run interface gigabitEthernet 0/23 | 10 |
| GZFB-S2910-1#show run interface gigabitEthernet 0/23  Building configuration...  Current configuration: 161 bytes  interface GigabitEthernet 0/23  switchport mode trunk  switchport trunk allowed vlan only 10,20,30,40,100  ip dhcp snooping trust  no nfpp arp-guard enable | 每行完全匹配各2分 |
| GZFB-S2910-1#show cpu-protect cpu | 5 |
| GZFB-S2910-1#show cpu-protect cpu  %cpu port bandwidth: 500(pps) | 完全匹配得5分 |
| GZFB-S2910-1#show spanning-tree summary | 10 |
| GZFB-S2910-1#show spanning-tree summary  Spanning tree enabled protocol mstp  MST 0 vlans map : ALL  Root ID Priority 4096  Address 5869.6c2c.7e10  this bridge is root  Hello Time 2 sec Forward Delay 15 sec Max Age 20 sec  Bridge ID Priority 32768  Address 5869.6cd8.05b5  Hello Time 2 sec Forward Delay 15 sec Max Age 20 sec  Interface Role Sts Cost Prio OperEdge Type  ---------------- ---- --- ---------- -------- -------- ----------------  Gi0/24 Root FWD 20000 128 False P2p  Gi0/23 Altn BLK 20000 128 False P2p  Gi0/1 Desg FWD 200000 128 True P2p | 每行完全匹配各2分 |

## S7（10分）

|  |  |
| --- | --- |
| BB-S2910-1#show run | in password | 5 |
| BB-S2910-1#show run | in password  username admin password admin  no service password-encryption  enable password admin | 完全匹配得5分 |
| BB-S2910-1#show run | include snmp | 5 |
| BB-S2910-1#show run | include snmp  snmp-server host 172.16.0.254 traps version 2c ruijie  snmp-server host 172.16.0.254 traps version 2c public  snmp-server enable traps  snmp-server community ruijie rw  snmp-server community public ro | 每行完全匹配得1分 |

## R1（35分）

|  |  |
| --- | --- |
| BB-RSR20-01#show ip route | 20 |
| BB-RSR20-01#show ip route  Codes: C - connected, S - static, R - RIP, B - BGP  O - OSPF, IA - OSPF inter area  N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  E1 - OSPF external type 1, E2 - OSPF external type 2  i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2  ia - IS-IS inter area, \* - candidate default  Gateway of last resort is no set  C 10.1.0.8/30 is directly connected, VLAN 10  C 10.1.0.10/32 is local host.  B 10.1.0.16/30 [200/0] via 11.1.0.2, 06:25:16  B 10.1.0.20/30 [200/0] via 11.1.0.3, 06:24:15  C 11.1.0.1/32 is local host.  O 11.1.0.2/32 [110/50] via 12.1.0.2, 07:26:34, Serial 2/0  O 11.1.0.3/32 [110/50] via 13.1.0.3, 07:25:40, Serial 3/0  O 11.1.0.21/32 [110/2] via 10.1.0.9, 02:11:11, VLAN 10  O 11.1.0.22/32 [110/2] via 10.1.0.9, 02:11:11, VLAN 10  O 11.1.0.31/32 [110/1] via 10.1.0.9, 02:11:11, VLAN 10  C 12.1.0.0/24 is directly connected, Serial 2/0  C 12.1.0.1/32 is local host.  C 13.1.0.0/24 is directly connected, Serial 3/0  C 13.1.0.1/32 is local host.  O 14.1.0.0/24 [110/100] via 12.1.0.2, 07:26:34, Serial 2/0  [110/100] via 13.1.0.3, 07:25:50, Serial 3/0  O E1 172.16.0.0/22 [110/22] via 10.1.0.9, 02:11:10, VLAN 10  O 192.1.10.0/30 [110/2] via 10.1.0.9, 02:11:11, VLAN 10  O 192.1.100.0/24 [110/2] via 10.1.0.9, 02:11:11, VLAN 10  S 193.1.10.0/24 [1/0] via 12.1.0.2  S 193.1.20.0/24 [1/0] via 12.1.0.2  S 193.1.30.0/24 [1/0] via 12.1.0.2  S 193.1.40.0/24 [1/0] via 12.1.0.2  S 194.1.10.0/24 [1/0] via 13.1.0.3  S 194.1.20.0/24 [1/0] via 13.1.0.3 | 第1、2行完全匹配得5分  其他行完全匹配得1分 |
| BB-RSR20-01#show access-lists | 10 |
| BB-RSR20-01#show access-lists  ip access-list extended 110  10 deny ip host 11.1.0.21 194.1.10.0 0.0.0.255  20 deny ip host 11.1.0.22 194.1.10.0 0.0.0.255  30 deny ip 192.1.20.0 0.0.0.255 194.1.20.0 0.0.0.255  40 deny ip 192.1.30.0 0.0.0.255 194.1.20.0 0.0.0.255  50 deny ip 172.16.0.0 0.0.255.255 194.1.20.0 0.0.0.255  60 deny ip host 11.1.0.21 193.1.10.0 0.0.0.255  70 deny ip host 11.1.0.22 193.1.10.0 0.0.0.255  80 deny ip 192.1.20.0 0.0.0.255 193.1.20.0 0.0.0.255  90 deny ip 192.1.30.0 0.0.0.255 193.1.20.0 0.0.0.255  100 deny ip 172.16.0.0 0.0.255.255 193.1.20.0 0.0.0.255  110 deny ip 192.1.20.0 0.0.0.255 193.1.30.0 0.0.0.255  120 deny ip 192.1.30.0 0.0.0.255 193.1.30.0 0.0.0.255  130 deny ip 172.16.0.0 0.0.255.255 193.1.30.0 0.0.0.255  140 deny ip 192.1.20.0 0.0.0.255 193.1.40.0 0.0.0.255  150 deny ip 192.1.30.0 0.0.0.255 193.1.40.0 0.0.0.255  160 deny ip 172.16.0.0 0.0.255.255 193.1.40.0 0.0.0.255  170 permit ip any any time-range work (inactive) | 前16行匹配每条0.5分  （顺序可不同）  最后一条完全匹配得2分 |
| BB-RSR20-01# show run | be ip nat pool (截取NAT相关配置) | 10 |
| BB-RSR20-01# show run | be ip nat pool  ip nat pool nat\_pool prefix-length 24  address interface Serial 2/0 match interface Serial 2/0  address interface Serial 3/0 match interface Serial 3/0  !  ip nat inside source list 110 pool nat\_pool overload  ! | 第1、2、3行完全匹配得2分  第4行完全匹配得4分 |

## R2（10分）

|  |  |
| --- | --- |
| ISP-RSR20-01#show ip bgp summary | 10 |
| ISP-RSR20-01#show ip bgp summary  BGP router identifier 11.1.0.2, local AS number 100  BGP table version is 3  1 BGP AS-PATH entries  0 BGP Community entries  2 BGP Prefix entries (Maximum-prefix:4294967295)  Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd  11.1.0.1 4 100 768 767 2 0 0 11:04:42 0  11.1.0.3 4 100 767 768 2 0 0 11:05:02 1  Total number of neighbors 2 | 每个邻居各5分 |

## R3（45分）

|  |  |
| --- | --- |
| ISP-RSR20-02#show run | include password 、ISP-RSR20-02#show run | begin line | 10 |
| ISP-RSR20-02#show run | include password  webmaster level 0 username admin password 7 004b244e4a39  username admin password admin  no service password-encryption  enable password admin  ISP-RSR20-02#show run | begin line  line con 0  line aux 0  line vty 0 4  login local  !  !  end | 完全匹配得10分  错一个扣4分，全错不得分 |
| ISP-RSR20-02#show bgp ipv4 unicast summary | 10 |
| ISP-RSR20-02#show bgp ipv4 unicast summary  BGP router identifier 11.1.0.3, local AS number 100  BGP table version is 2  1 BGP AS-PATH entries  0 BGP Community entries  2 BGP Prefix entries (Maximum-prefix:4294967295)  Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd  11.1.0.1 4 100 524 522 2 0 0 07:31:28 0  11.1.0.2 4 100 524 521 2 0 0 07:31:48 1  Total number of neighbors 2 | 每个邻居各5分 |
| ISP-RSR20-02#show rate-limit interface gigabitEthernet 0/0 | 10 |
| ISP-RSR20-02#show rate-limit interface gigabitEthernet 0/0  GigabitEthernet 0/0  Input  matches all traffic  params: 1000000 bps, 100000 limit, 2000000 extended limit  conformed 1489 packets, 373842 bytes; action: transmit  exceeded 0 packets, 0 bytes; action: drop  cbucket 2099822, cbs 2100000; ebucket 0 ebs 0 | 完全匹配得10分 |
| ISP-RSR20-02#show traffic-shape serial 3/0 | 10 |
| ISP-RSR20-02#show traffic-shape serial 3/0  Interface Serial 3/0  Access Target Byte Sustain Excess Interval Increment Adapt  VC List Rate Limit bits/int bits/int (ms) (bytes) Active  - - 2000000 10000 40000 40000 20 5000 - | 完全匹配得10分 |

## EG1（55分）

|  |  |
| --- | --- |
| GZFB-EG2000-01#show ip route | 15 |
| GZFB-EG2000-01#show ip route  Codes: C - Connected, L - Local, S - Static  R - RIP, O - OSPF, B - BGP, I - IS-IS, V - Overflow route  N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  E1 - OSPF external type 1, E2 - OSPF external type 2  SU - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2  IA - Inter area, \* - candidate default  Gateway of last resort is 10.1.0.18 to network 0.0.0.0  S\* 0.0.0.0/0 [1/0] via 10.1.0.18  C 10.1.0.0/30 is directly connected, GigabitEthernet 0/1  C 10.1.0.2/32 is local host.  C 10.1.0.4/30 is directly connected, GigabitEthernet 0/2  C 10.1.0.6/32 is local host.  C 10.1.0.16/30 is directly connected, GigabitEthernet 0/3  C 10.1.0.17/32 is local host.  C 11.1.0.11/32 is local host.  O 11.1.0.33/32 [110/2] via 10.1.0.5, 03:59:24, GigabitEthernet 0/2  O 11.1.0.34/32 [110/1] via 10.1.0.5, 03:59:24, GigabitEthernet 0/2  O 193.1.10.0/24 [110/2] via 10.1.0.5, 03:59:30, GigabitEthernet 0/2  O 193.1.20.0/24 [110/2] via 10.1.0.5, 03:59:30, GigabitEthernet 0/2  O 193.1.30.0/24 [110/2] via 10.1.0.5, 03:59:30, GigabitEthernet 0/2  O 193.1.40.0/24 [110/2] via 10.1.0.5, 03:59:30, GigabitEthernet 0/2  O 193.1.100.0/24 [110/2] via 10.1.0.5, 03:59:30, GigabitEthernet 0/2 | 第一行完全匹配得1分  其它每行完全匹配各2分 |
| GZFB-EG2000-01#sho flow-control Gi0/3 | 10 |
| GZFB-EG2000-01#sho flow-control Gi0/3  flow-control Gi0/3  channel-tree inbound  no auto-pir enable  !  channel-group root parent null cir 1000000 pir 1000000 pri 4 fifo  channel-group web parent root cir 50000 pir 50000 pri 4 per-net per-pir 1000 limit 2000  channel-default root  !  channel-tree outbound  no auto-pir enable  !  channel-group root parent null cir 1000000 pir 1000000 pri 4 fifo  channel-group web parent root cir 50000 pir 50000 pri 4 per-net per-pir 1000 limit 2000  channel-default root  !  flow-rule 1 app-group web time-range any  flow-rule 1 action pass in-channel web out-channel web comment web  flow-rule 2 app-group P2P应用软件 time-range work  flow-rule 2 action drop comment p2p | 第一行端口正确得2分  第二、三行完全匹配各0.5分  第四、五行完全匹配得0.5分  第六、七行每行完全匹配各3分 |
| GZFB-EG2000-01#show content-policy | 5 |
| GZFB-EG2000-01#show content-policy  content-policy \_TOP\_PRIORITY  (active)url-rule 997 url-object un\_audit\_object time-range any action permit comment 不审计的网站  (active)url-rule 1000 url-object illegal time-range any action deny audit comment 黑名单网站策略  content-policy \_AUDIT\_DEFAULT  (active)url-rule audit-default-enable  (active)web-search-rule audit-default-enable  (active)web-bbs-rule audit-default-enable  (active)web-mail-rule audit-default-enable  (active)im-rule audit-default-enable  (active)mail-rule audit-default-enable | 完全匹配得5分 |
| GZFB-EG2000-01#show url-class user-cfg | 5 |
| GZFB-EG2000-01#show url-class user-cfg  url-class:un\_audit\_class  comment:unaudit  url-class:forbidClass  url: 40.1.0.9 | 完全匹配得5分 |
| GZFB-EG2000-01#show run | begin ip nat pool | 5 |
| GZFB-EG2000-01#show run | begin ip nat pool  ip nat pool nat\_pool prefix-length 24  address interface GigabitEthernet 0/3 match interface GigabitEthernet 0/3  !  ip nat inside source list 110 pool nat\_pool overload  !  ip route 0.0.0.0 0.0.0.0 10.1.0.18  !  line console 0  line vty 0 4  login local  !  end | 完全匹配得5分 |
| GZFB-EG2000-01#show crypto isakmp sa | 5 |
| GZFB-EG2000-01#show crypto isakmp sa  destination source state conn-id lifetime(second)  12.1.0.1 10.1.0.17 IKE\_IDLE 1 68782 | 完全匹配得5分 |
| GZFB-EG2000-01#show crypto ipsec sa | include #pkts decaps: | 10 |
| GZFB-EG2000-01#show crypto ipsec sa | include #pkts decaps:  #pkts decaps: 62, #pkts decrypt: 62, #pkts verify 62  #pkts decaps: 85, #pkts decrypt: 85, #pkts verify 85  #pkts decaps: 100, #pkts decrypt: 100, #pkts verify 100  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0 | 数字不为0得10分 |

## EG2（45分）

|  |  |
| --- | --- |
| JLFB-EG2000-01#show ip route | 5 |
| JLFB-EG2000-01#show ip route  Codes: C - Connected, L - Local, S - Static  R - RIP, O - OSPF, B - BGP, I - IS-IS, V - Overflow route  N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  E1 - OSPF external type 1, E2 - OSPF external type 2  SU - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2  IA - Inter area, \* - candidate default  Gateway of last resort is 10.1.0.22 to network 0.0.0.0  S\* 0.0.0.0/0 [1/0] via 10.1.0.22  C 10.1.0.12/30 is directly connected, GigabitEthernet 0/1  C 10.1.0.14/32 is local host.  C 10.1.0.20/30 is directly connected, GigabitEthernet 0/3  C 10.1.0.21/32 is local host.  C 11.1.0.12/32 is local host.  S 11.1.0.35/32 [1/0] via 10.1.0.13  S 194.1.10.0/24 [1/0] via 10.1.0.13  S 194.1.20.0/24 [1/0] via 10.1.0.13 | 第二条完全匹配得2分  其他完全匹配各1分 |
| JLFB-EG2000-01#show run | begin ip nat pool | 5 |
| JLFB-EG2000-01#show run | begin ip nat pool  ip nat pool nat\_pool prefix-length 24  address interface GigabitEthernet 0/3 match interface GigabitEthernet 0/3  !  ip nat inside source list 110 pool nat\_pool overload  !  ip route 0.0.0.0 0.0.0.0 10.1.0.22  ip route 11.1.0.35 255.255.255.255 10.1.0.13  ip route 194.1.10.0 255.255.255.0 10.1.0.13  ip route 194.1.20.0 255.255.255.0 10.1.0.13  !  line console 0  line vty 0 4  login local  !  end | 完全匹配得5分 |
| JLFB-EG2000-01#show ip session filter | 5 |
| JLFB-EG2000-01#show ip session filter  ip session filter 102 | 完全匹配得5分 |
| JLFB-EG2000-01#show access-lists | 15 |
| JLFB-EG2000-01#show access-lists  ip access-list extended 101  10 permit ip 194.1.10.0 0.0.0.255 host 11.1.0.21  20 permit ip 194.1.10.0 0.0.0.255 host 11.1.0.22  30 permit ip 194.1.20.0 0.0.0.255 192.1.20.0 0.0.0.255  40 permit ip 194.1.20.0 0.0.0.255 192.1.30.0 0.0.0.255  50 permit ip 194.1.20.0 0.0.0.255 172.16.0.0 0.0.255.255  ip access-list extended 102  10 permit icmp any host 10.1.0.21  20 permit tcp any host 10.1.0.21 eq telnet  30 permit ip 194.1.10.0 0.0.0.255 any  40 permit ip 194.1.20.0 0.0.0.255 any  50 permit esp any any  ip access-list extended 110  10 deny ip 194.1.10.0 0.0.0.255 host 11.1.0.21  20 deny ip 194.1.10.0 0.0.0.255 host 11.1.0.22  30 deny ip 194.1.20.0 0.0.0.255 192.1.20.0 0.0.0.255  40 deny ip 194.1.20.0 0.0.0.255 192.1.30.0 0.0.0.255  50 deny ip 194.1.20.0 0.0.0.255 172.16.0.0 0.0.255.255  60 permit ip any any | 每个ACL完全匹配得5分  （ACL内编号顺序可不同） |
| JLFB-EG2000-01#show crypto ipsec transform-set | 5 |
| JLFB-EG2000-01#show crypto ipsec transform-set  transform set myset: { esp-md5-hmac,esp-3des,}  will negotiate = {Tunnel,} | 完全匹配得5分 |
| JLFB-EG2000-01#show crypto map mymap | 10 |
| JLFB-EG2000-01#show crypto map mymap  Crypto Map:"mymap" 10 ipsec-isakmp, (Complete)  Extended IP access list 101  Security association lifetime: 4608000 kilobytes/3600 seconds(id=8)  PFS (Y/N): N  Transform sets = { myset, }  isakmp policy: no set  Interfaces using crypto map mymap:  GigabitEthernet 0/3 | 每项完全匹配各2分 |

## AC1（125分）

|  |  |
| --- | --- |
| BB-WS6008-01#show wlan-config summary(无线用户关联成功后收集) | 20 |
| BB-WS6008-01#show wlan-config summary  Total Wlan Num : 2  Wlan id Profile Name SSID STA NUM  -------- -------------------- -------------------- --------  1 Ruijie-GZ\_01 2  2 Ruijie-JL\_01 1 | 每行有SSID各得5分。  每行有终端关联各得5分 |
| BB-WS6008-01#show ap-config summary | 30 |
| BB-WS6008-01#show ap-config summary  ========= show ap status =========  Radio: Radio ID or Band: 2.4G = 1#, 5G = 2#  E = enabled, D = disabled, N = Not exist  Current Sta number  Channel: \* = Global  Power Level = Percent  Online AP number: 3  Offline AP number: 0  AP Name IP Address Mac Address Radio Radio Up/Off time State  ---------------------------------------- --------------- -------------- ------------------- ------------------- ------------- -----  GZFB-AP520-01 193.1.10.1 5869.6cf8.55e6 1 E 1 11\* 100 2 E 1 157\* 100 0:00:01:45 Run  JLFB-AP520-01 194.1.10.1 5869.6cf8.4912 1 E 0 1\* 100 2 E 1 149\* 100 0:00:01:45 Run  JLFB-AP520-02 194.1.10.2 0074.9c1f.ebec 1 E 0 6\* 100 2 E 0 153\* 100 0:00:01:33 Run | 每行完全匹配各得10分 |
| BB-WS6008-01#show wlan-config cb 1 | 20 |
| BB-WS6008-01#show wlan-config cb 1  WLAN ID.................................. 1  SSID..................................... Ruijie-GZ\_01  Profile..................................  MAC Mode................................. Local  Tunnel Mode.............................. Local Bridging  Suppress SSID............................ Disable  Sta-limit................................ 0  NAS ID...................................  Band Select.............................. Disable  SSID Code................................ | 完全匹配得20分 |
| BB-WS6008-01#show ap-group intf-wlan-map GZ | 5 |
| BB-WS6008-01#show ap-group intf-wlan-map GZ  WLAN ID SSID VLAN-Id/VLAN-Group ID Radio ID AP WLAN ID Enable  --------- --------------------------------- ------------------------- -------------------------------------- ---------------- ----------  1 Ruijie-GZ\_01 20 ALL 1 True | 完全匹配得5分 |
| BB-WS6008-01#show wlan hot-backup 11.1.0.22 | 20 |
| BB-WS6008-01#show wlan hot-backup 11.1.0.22  wlan hot-backup 11.1.0.22  hot-backup : Enable  connect state : CHANNEL\_UP  hello-interval : 1000  kplv-pkt : ip  work-mode : NORMAL  !  context 10  hot-backup role : PAIR-STANDBY  hot-backup rdnd state : REALTIME-SYN  hot-backup priority : 4 | 完全匹配得20分 |
| BB-WS6008-01#show wlan security 1 | 5 |
| BB-WS6008-01#show wlan security 1  WLAN SSID : Ruijie-GZ\_01  Security Policy : PSK  WPA version : RSN(WPA2)  AKM type : preshare key  pairwise cipher type: AES  group cipher type : AES  wpa\_passhraselen : 8  wpa\_passphrase : 31 32 33 34 35 36 37 38  group key : 7e cd fa 3b 7b 8c fc 5c d9 a7 39 68 0c ab 72 0e | 完全匹配得5分 |
| BB-WS6008-02#show version all (截取GZFB-AP520-01版本信息) | 25 |
| AP(GZFB-AP520-01)'s version:  Product ID : AP520(W2)  System uptime : 0:1:57:58  Hardware version : 1.01  Software version : AP\_RGOS 11.1(5)B9P11, Release(03212617)  Patch number : NA  Software number : M17374609262016  Serial number : G1LQ4JR037317  MAC address : 5869.6cf8.55e6 | 完全匹配得25分 |

## AC2（90分）

|  |  |
| --- | --- |
| BB-WS6008-02#show ap-group intf-wlan-map JL | 10 |
| BB-WS6008-02#show ap-group intf-wlan-map JL  WLAN ID SSID VLAN-Id/VLAN-Group ID Radio ID AP WLAN ID Enable  --------- --------------------------------- ------------------------- -------------------------------------- ---------------- ----------  2 Ruijie-JL\_01 20 ALL 1 True | 完全匹配得10分 |
| BB-WS6008-02#show run | include wlan-based | 10 |
| BB-WS6008-02#show run | include wlan-based  wlan-based per-user-limit down-streams average-data-rate 800 burst-data-rate 1600 | 完全匹配得10分 |
| BB-WS6008-02#show ap-config running | 30 |
| BB-WS6008-02#show ap-config running  Building configuration...  Current configuration: 294 bytes  !  ap-config GZFB-AP520-01  ap-mac 5869.6cf8.55e6  ap-group GZ  response-rssi 30 radio 1  response-rssi 30 radio 2  !  ap-config JLFB-AP520-01  ap-mac 5869.6cf8.4912  ap-group JL  sta-limit 30  !  ap-config JLFB-AP520-02  ap-mac 0074.9c1f.ebec  ap-group JL  sta-limit 30  !!!!!  end | 每个AP完全匹配得10分  其中，  AP-config 得2分  Ap-group 得2分  其他项得6分 |
| BB-WS6008-02#show schedule session | 10 |
| BB-WS6008-02#show schedule session  schedule session 1:  schedule session 1 time-range 1 period Mon to Fri time 21:00 to 23:30 | 完全匹配得10分 |
| BB-WS6008-02#sh run | include disabled | 10 |
| BB-WS6008-02#sh run | include disabled  802.11g network rate 1 disabled  802.11g network rate 2 disabled  802.11g network rate 5 disabled  802.11b network rate 1 disabled  802.11b network rate 2 disabled  802.11b network rate 5 disabled  802.11a network rate 6 disabled  802.11a network rate 9 disabled | 第1～6行每行1分  第7～8行每行2分 |
| BB-WS6008-02#show wids whitelist | 10 |
| BB-WS6008-02#show wids whitelist  ------------- White list Information ---------------  Total num:1  NUM MAC-ADDRESS  1 1c36.bb9f.c961 | 有MAC地址信息得10分 |
| BB-WS6008-02#show wlan hot-backup 11.1.0.21 | 10 |
| BB-WS6008-02#show wlan hot-backup 11.1.0.21  wlan hot-backup 11.1.0.21  hot-backup : Enable  connect state : CHANNEL\_UP  hello-interval : 1000  kplv-pkt : ip  work-mode : NORMAL  !  context 10  hot-backup role : PAIR-ACTIVE  hot-backup rdnd state : REALTIME-SYN  hot-backup priority : 7 | 完全匹配得10分 |

## 验证测试（30分）

|  |  |
| --- | --- |
| GZFB-S5750-01#ping 192.1.20.254 source 193.1.20.252 | 5 |
| GZFB-S5750-01#ping 192.1.20.254 source 193.1.20.252  Sending 5, 100-byte ICMP Echoes to 192.1.20.254, timeout is 2 seconds:  < press Ctrl+C to break >  !!!!!  Success rate is 100 percent (5/5), round-trip min/avg/max = 76/77/83 ms. | Ping通地址得5分 |
| JLFB-S5750-01#ping 192.1.20.254 source 194.1.20.254 | 5 |
| JLFB-S5750-01#ping 192.1.20.254 source 194.1.20.254  Sending 5, 100-byte ICMP Echoes to 192.1.20.254, timeout is 2 seconds:  < press Ctrl+C to break >  !!!!!  Success rate is 100 percent (5/5), round-trip min/avg/max = 71/72/75 ms. | Ping通地址得5分 |
| tracert 10.1.0.18 (PC1手动配置地址后) | 5 |
| Root~$ tracert 10.1.0.18  tracert to 10.1.0.18 (10.1.0.18), 64 hops max, 52 byte packets   1  193.1.40.253 (193.1.40.253)  2.367 ms  1.902 ms  1.608 ms   2  10.1.0.6 (10.1.0.6)  0.965 ms  0.641 ms  0.502 ms   3  10.1.0.18 (10.1.0.18)  1.138 ms  1.098 ms  0.793 ms | 路径跟踪正确得5分 |
| Ipconfig （PC1使用无线网卡获取IPv4和IPv6地址） | 5 |
| 无线局域网适配器 WLAN 4:  连接特定的 DNS 后缀 . . . . . . . :  IPv6 地址 . . . . . . . . . . . . : 2001:193:20:0:d164:1936:b7a1:4184  临时 IPv6 地址. . . . . . . . . . : 2001:193:20:0:bdd0:4b1d:db54:e4d9  本地链接 IPv6 地址. . . . . . . . : fe80::d164:1936:b7a1:4184%18  IPv4 地址 . . . . . . . . . . . . : <193.1.20.2>  子网掩码 . . . . . . . . . . . . : <255.255.255.0>  默认网关. . . . . . . . . . . . . : fe80::4%18  <193.1.20.254> | 获取到IPv4和IPv6地址得5分 |
| PC1路径跟踪到192.1.120.254 tracert <192.1.20.254> | 5 |
| C:\Users\Administrator>tracert <192.1.20.254>  通过最多 30 个跃点跟踪到 <192.1.20.254> 的路由  1 4 ms 3 ms 3 ms <193.1.20.253>  2 4 ms 2 ms 2 ms <10.1.0.6>  3 \* \* \* 请求超时。  4 66 ms 66 ms 65 ms <192.1.20.254>  跟踪完成。 | 可以跟踪192.XX.20.254地址得5分 |
| PC1获取IPv6地址后Ping 2001:193:40::254 | 5 |
| C:\Users\Administrator>ping 2001:193:40::254  正在 Ping 2001:193:40::254 具有 32 字节的数据:  来自 2001:193:40::254 的回复: 时间=4ms  来自 2001:193:40::254 的回复: 时间=5ms  来自 2001:193:40::254 的回复: 时间=8ms  来自 2001:193:40::254 的回复: 时间=4ms  2001:193:40::254 的 Ping 统计信息:  数据包: 已发送 = 4，已接收 = 4，丢失 = 0 (0% 丢失)，  往返行程的估计时间(以毫秒为单位):  最短 = 4ms，最长 = 8ms，平均 = 5ms | 可以ping通IPv6地址得5分 |