

```
1 *****
3
4 #Maria
5 config t
6 int fa0/0
7 ip address 192.168.12.1 255.255.255.0
8 no shut
9 exit
10
11 #Jim
12 config t
13 int fa0/0
14 ip address 192.168.12.2 255.255.255.0
15 no shut
16 exit
17 int fa1/0
18 ip address 192.168.23.2 255.255.255.0
19 no shut
20 exit
21 int fa2/0
22 ip address 192.168.24.2 255.255.255.0
23 no shut
24 exit
25
26 #Jack
27 config t
28 int fa0/0
29 ip address 192.168.23.3 255.255.255.0
30 no shut
31 exit
32 int fa1/0
33 ip address 192.168.35.3 255.255.255.0
34 no shut
35 exit
36
37 #John
38 config t
39 int fa0/0
40 ip address 192.168.35.5 255.255.255.0
41 no shut
42 exit
43 int fa1/0
44 ip address 192.168.45.5 255.255.255.0
45 no shut
46 exit
47 int fa2/0
48 ip address 192.168.56.5 255.255.255.0
49 no shut
50 exit
51
52 #James
53 config t
54 int fa0/0
55 ip address 192.168.24.4 255.255.255.0
56 no shut
57 exit
58 int fa1/0
59 ip address 192.168.45.4 255.255.255.0
60 no shut
61 exit
62
63 #Emma
64 config t
```

```
65 int fa0/0
66 ip address 192.168.56.6 255.255.255.0
67 no shut
68 exit
69 int loopback 0
70 ip address 6.6.6.6 255.255.255.0
71 exit
72
73 #copy run start
74 *****
```

```
76
77 #Maria
78 router bgp 1
79 neighbor 192.168.12.2 remote-as 2
80 exit
81
82 #Jim
83 router bgp 2
84 neighbor 192.168.12.1 remote-as 1
85 exit
86
87 #John
88 router bgp 2
89 neighbor 192.168.56.6 remote-as 3
90 exit
91
92 #Emma
93 router bgp 3
94 neighbor 192.168.56.5 remote-as 2
95 network 6.6.6.0 mask 255.255.255.0
96 exit
97
98 $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
99 #John
100 exit
101 sh ip bgp
102 config t
103 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
104 *****
```

```
106
107 #Jim
108 router ospf 1
109 network 192.168.23.0 0.0.0.255 area 0
110 network 192.168.24.0 0.0.0.255 area 0
111 exit
112
113 #Jack
114 router ospf 1
115 network 192.168.23.0 0.0.0.255 area 0
116 network 192.168.35.0 0.0.0.255 area 0
117 exit
118
119 #James
120 router ospf 1
121 network 192.168.24.0 0.0.0.255 area 0
122 network 192.168.45.0 0.0.0.255 area 0
123 exit
124
125 #John
126 router ospf 1
127 network 192.168.35.0 0.0.0.255 area 0
128 network 192.168.45.0 0.0.0.255 area 0
```

```
129 exit
130
131 $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
132 #Ping John to Jim
133
134 #John
135 exit
136 ping 192.168.23.2
137 ping 192.168.24.2
138 config t
139 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
140 *****
```

```
142
143 #LB
144 #Jim
145 int loopback 0
146 ip address 2.2.2.2 255.255.255.0
147 router ospf 1
148 network 2.2.2.2 0.0.0.0.255 area 0
149 exit
150
151 #John
152 int loopback 0
153 ip address 5.5.5.5 255.255.255.0
154 router ospf 1
155 network 5.5.5.5 0.0.0.0.255 area 0
156 exit
157
158 #EBGP
159 #Jim
160 router bgp 2
161 neighbor 5.5.5.5 remote-as 2
162 neighbor 5.5.5.5 update-source loopback 0
163 network 192.168.12.0 mask 255.255.255.0
164 exit
165
166 #John
167 router bgp 2
168 neighbor 2.2.2.2 remote-as 2
169 neighbor 2.2.2.2 update-source loopback 0
170 network 192.168.56.0 mask 255.255.255.0
171 exit
172
173 $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
174 #EBGP
175
176 #Jim
177 exit
178 sh bgp summary
179 config t
180 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
181 *****
```

```
183
184 #James
185 router bgp 2
186 int loopback 0
187 ip address 4.4.4.4 255.255.255.0
188 router ospf 1
189 network 4.4.4.4 0.0.0.0.255 area 0
190 router bgp 2
191 neighbor 2.2.2.2 remote-as 2
192 neighbor 2.2.2.2 update-source loopback 0
```

```

193 exit
194
195 #Jim
196 router bgp 2
197 neighbor 4.4.4.4 remote-as 2
198 neighbor 4.4.4.4 update-source loopback 0
199 exit
200
201 #Jack
202 router bgp 2
203 int loopback 0
204 ip address 3.3.3.3 255.255.255.0
205 router ospf 1
206 network 3.3.3.3 0.0.0.0255 area 0
207 router bgp 2
208 neighbor 2.2.2.2 remote-as 2
209 neighbor 2.2.2.2 update-source loopback 0
210 exit
211
212 #Jim
213 router bgp 2
214 neighbor 3.3.3.3 remote-as 2
215 neighbor 3.3.3.3 update-source loopback 0
216 exit
217
218 $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
219 #James
220 exit
221 sh ip bgp
222 config t
223
224 #Jack
225 exit
226 sh ip bgp
227 config t
228 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
229 *****

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231
232 #John
233 router bgp 2
234 network 192.168.56.0 mask 255.255.255.0
235 neighbor 4.4.4.4 remote-as 2
236 neighbor 4.4.4.4 update-source loopback 0
237 neighbor 3.3.3.3 remote-as 2
238 neighbor 3.3.3.3 update-source loopback 0
239 exit
240
241 #James
242 router bgp 2
243 neighbor 5.5.5.5 remote-as 2
244 neighbor 5.5.5.5 update-source loopback 0
245 neighbor 3.3.3.3 remote-as 2
246 neighbor 3.3.3.3 update-source loopback 0
247 exit
248
249 #Jack
250 router bgp 2
251 neighbor 5.5.5.5 remote-as 2
252 neighbor 5.5.5.5 update-source loopback 0
253 neighbor 4.4.4.4 remote-as 2
254 neighbor 4.4.4.4 update-source loopback 0
255 exit
256

```

```
257 #John
258 router bgp 2
259 no network 192.168.56.0
260 neighbor 4.4.4.4 next-hop-self
261 neighbor 3.3.3.3 next-hop-self
262 exit
263
264 $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
265 #Maria
266 exit
267 ping 6.6.6.6
268 config t
269
270 #Jack
271 exit
272 sh ip bgp
273 sh ip route bgp | include 6.6.6.0
274 config t
275
276 #James
277 exit
278 sh ip bgp
279 sh ip route bgp | include 6.6.6.0
280 config t
281 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
282 *****
```

```
284
285 #Jim
286 router ospf 1
287 network 192.168.12.0 0.0.0.255 area 0
288 exit
289 exit
290
291 #Maria
292 router ospf 1
293 network 192.168.12.0 0.0.0.255 area 0
294 exit
295 exit
296
297 #Emma
298 router ospf 1
299 network 192.168.56.0 0.0.0.255 area 0
300 exit
301 exit
302
303 #John
304 router ospf 1
305 network 192.168.56.0 0.0.0.255 area 0
306 exit
307 exit
308
309 #copy run start
310 *****
```

```
312
313 #Maria
314 ping 192.168.12.1
315 ping 192.168.12.2
316 ping 192.168.23.2
317 ping 192.168.23.3
318 ping 192.168.24.2
319 ping 192.168.24.4
320 ping 192.168.35.3
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```
321 ping 192.168.35.5
322 ping 192.168.45.4
323 ping 192.168.45.5
324 ping 192.168.56.5
325 ping 192.168.56.6
326 ping 2.2.2.2
327 ping 3.3.3.3
328 ping 4.4.4.4
329 ping 5.5.5.5
330 ping 6.6.6.6
331
332 #Jim
333 ping 192.168.12.1
334 ping 192.168.12.2
335 ping 192.168.23.2
336 ping 192.168.23.3
337 ping 192.168.24.2
338 ping 192.168.24.4
339 ping 192.168.35.3
340 ping 192.168.35.5
341 ping 192.168.45.4
342 ping 192.168.45.5
343 ping 192.168.56.5
344 ping 192.168.56.6
345 ping 2.2.2.2
346 ping 3.3.3.3
347 ping 4.4.4.4
348 ping 5.5.5.5
349 ping 6.6.6.6
350
351 #Jack
352 ping 192.168.12.1
353 ping 192.168.12.2
354 ping 192.168.23.2
355 ping 192.168.23.3
356 ping 192.168.24.2
357 ping 192.168.24.4
358 ping 192.168.35.3
359 ping 192.168.35.5
360 ping 192.168.45.4
361 ping 192.168.45.5
362 ping 192.168.56.5
363 ping 192.168.56.6
364 ping 2.2.2.2
365 ping 3.3.3.3
366 ping 4.4.4.4
367 ping 5.5.5.5
368 ping 6.6.6.6
369
370 #John
371 ping 192.168.12.1
372 ping 192.168.12.2
373 ping 192.168.23.2
374 ping 192.168.23.3
375 ping 192.168.24.2
376 ping 192.168.24.4
377 ping 192.168.35.3
378 ping 192.168.35.5
379 ping 192.168.45.4
380 ping 192.168.45.5
381 ping 192.168.56.5
382 ping 192.168.56.6
383 ping 2.2.2.2
384 ping 3.3.3.3
```

```
385 ping 4.4.4.4
386 ping 5.5.5.5
387 ping 6.6.6.6
388
389 #James
390 ping 192.168.12.1
391 ping 192.168.12.2
392 ping 192.168.23.2
393 ping 192.168.23.3
394 ping 192.168.24.2
395 ping 192.168.24.4
396 ping 192.168.35.3
397 ping 192.168.35.5
398 ping 192.168.45.4
399 ping 192.168.45.5
400 ping 192.168.56.5
401 ping 192.168.56.6
402 ping 2.2.2.2
403 ping 3.3.3.3
404 ping 4.4.4.4
405 ping 5.5.5.5
406 ping 6.6.6.6
407
408 #Emma
409 ping 192.168.12.1
410 ping 192.168.12.2
411 ping 192.168.23.2
412 ping 192.168.23.3
413 ping 192.168.24.2
414 ping 192.168.24.4
415 ping 192.168.35.3
416 ping 192.168.35.5
417 ping 192.168.45.4
418 ping 192.168.45.5
419 ping 192.168.56.5
420 ping 192.168.56.6
421 ping 2.2.2.2
422 ping 3.3.3.3
423 ping 4.4.4.4
424 ping 5.5.5.5
425 ping 6.6.6.6
426
427 -----
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