1. Задаём базовые настройки:

а) имя для R1:

```
Please configure the login password (maximum length 16)
Enter password:user
Confirm Password:user
<Huawei>
 Warning: Auto-Config is working. Before configuring the device, stop Auto-Config. If you perform configurations when Auto-Config is running, the DHCP, routing, DNS, and VTY configurations will be lost. Do you want to stop Auto-Config? [y/n]:y
Info: Auto-Config has been stopped.
<Huawei>system-view
Enter system view, return user view with Ctrl+Z.
[Huawei]sysname R1
[R1]
```

б) имя для R2:

```
Please configure the login password (maximum length 16)
Enter password:user
Confirm Password:user
<Huawei>
 Warning: Auto-Config is working. Before configuring the device, stop Auto-Config. If you perform configurations when Auto-Config is running, the DHCP, routing, DNS, and VTY configurations will be lost. Do you want to stop Auto-Config? [y/n]:y
Info: Auto-Config has been stopped.
<Huawei>system-view
Enter system view, return user view with Ctrl+Z.
[Huawei]sysname R2
[R2]
```

в) Имя для Sw:

```
password: user
<Sw>system-view
Enter system view, return user view with Ctrl+Z.
```

```
[Sw]sysname Sw
[Sw]vlan batch 100 to 110
Info: This operation may take a few seconds. Please wait for a moment...done.
[Sw]
Mar 11 2014 20:12:35-05:13 Sw DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25.191.3.1 configurations have been changed. The current change number is 1, the change loop count is 0, and the maximum number of records is 4095.
```

Создаем интерфейсы L3 на коммутаторе:

```
[Sw]int vlan 100
[Sw-Vlanif100]ip address 10.1.1.2 24
[Sw-Vlanif100]int vlan 101
[Sw-Vlanif101]ip address 10.1.2.2 24
```

Помещаем физические интерфейсы в VLAN:

```
[Sw-Vlanif101]int gi 0/0/1
[Sw-GigabitEthernet0/0/1]port link-type access
[Sw-GigabitEthernet0/0/1]port default vlan 100
[Sw-GigabitEthernet0/0/1]int gi 0/0/2
[Sw-GigabitEthernet0/0/2]port link-type access
[Sw-GigabitEthernet0/0/2]port default vlan 101
[Sw-GigabitEthernet0/0/2]int loopback 0
[Sw-LoopBack0]ip address 1.0.0.3 32
```

Аналогичную операцию проделываем на маршрутизаторе R1:

```
<R1>system-view
Enter system view, return user view with Ctrl+Z.
[R1]int gi 0/0/1
[R1-GigabitEthernet0/0/1]ip address 10.1.1.1 24
[R1-GigabitEthernet0/0/1]
Mar 11 2014 20:17:55+00:00 R1 %%01IFNET/4/LINK_STATE(l)[0]:The line protocol IP on the interface GigabitEthernet0/0/1 has entered the UP state.
[R1-GigabitEthernet0/0/1]int gi 0/0/0
[R1-GigabitEthernet0/0/0]ip address 10.1.3.1 24
```

```
[R1-GigabitEthernet0/0/0]
Mar 11 2014 20:24:48+00:00 R1 %%01IFNET/4/LINK_STATE(l)[1]:The line protocol IP on the interface GigabitEthernet0/0/0 has entered the UP state.
[R1-GigabitEthernet0/0/0]int loopback 0
[R1-LoopBack0]ip address 1.0.0.1 32
```

На маршрутизаторе на R2:

```
<R2>system-view
Enter system view, return user view with Ctrl+Z.
[R2]int gi 0/0/1
[R2-GigabitEthernet0/0/1]ip address 10.1.2.1 24
[R2-GigabitEthernet0/0/1]
Mar 11 2014 20:20:02+00:00 R2 %%01IFNET/4/LINK_STATE(l)[0]:The line protocol IP on the interface GigabitEthernet0/0/1 has entered the UP state.
[R2-GigabitEthernet0/0/1]int loopback 0
[R2-LoopBack0]ip address 1.0.0.2 32
[R2-LoopBack0]int gi 0/0/0
[R2-GigabitEthernet0/0/0]ip address 10.1.3.2 24
[R2-GigabitEthernet0/0/0]
Mar 11 2014 20:26:06+00:00 R2 %%01IFNET/4/LINK_STATE(l)[1]:The line protocol IP on the interface GigabitEthernet0/0/0 has entered the UP state.
```

В результате с маршрутизатора R1 проходит ping на соседние IP-адреса. Статистика для 10.1.1.2:

```
<R1>ping 10.1.1.2
  PING 10.1.1.2: 56  data bytes, press CTRL_C to break
    Reply from 10.1.1.2: bytes=56 Sequence=1 ttl=255 time=17 ms
    Reply from 10.1.1.2: bytes=56 Sequence=2 ttl=254 time=10 ms
    Reply from 10.1.1.2: bytes=56 Sequence=3 ttl=254 time=2 ms
    Reply from 10.1.1.2: bytes=56 Sequence=4 ttl=254 time=2 ms
    Reply from 10.1.1.2: bytes=56 Sequence=5 ttl=254 time=10 ms

  --- 10.1.1.2 ping statistics ---
    5 packet(s) transmitted
    5 packet(s) received
```

```
  0.00% packet loss
  round-trip min/avg/max = 2/8/17 ms
```

Статистика для 10.1.3.2:

```
<R1>ping 10.1.3.2
 PING 10.1.3.2: 56  data bytes, press CTRL_C to break
   Reply from 10.1.3.2: bytes=56 Sequence=1 ttl=255 time=9 ms
   Reply from 10.1.3.2: bytes=56 Sequence=2 ttl=255 time=1 ms
   Reply from 10.1.3.2: bytes=56 Sequence=3 ttl=255 time=1 ms
   Reply from 10.1.3.2: bytes=56 Sequence=4 ttl=255 time=10 ms
   Reply from 10.1.3.2: bytes=56 Sequence=5 ttl=255 time=1 ms

 --- 10.1.3.2 ping statistics ---
   5 packet(s) transmitted
   5 packet(s) received
   0.00% packet loss
   round-trip min/avg/max = 1/4/10 ms
```

Ping на IP-адрес 10.0.0.2 не проходит:

```
<R1>ping 1.0.0.2
 PING 1.0.0.2: 56  data bytes, press CTRL_C to break
   Request time out
   Request time out
   Request time out
   Request time out
   Request time out

 --- 1.0.0.2 ping statistics ---
   5 packet(s) transmitted
   0 packet(s) received
   100.00% packet loss
```