

# How to Discover your Network within Workstation

### **Application Scenario :**

The live network discovery function enables you to discover your network devices by a unique neighbor-walking method, and provides a granular view of your network infrastructure. The discovered devices are added to your workspace automatically. When your network is changed, for example, new devices are added into your network, you need to re-discover your network. Or when there is something wrong with a device, you may need to re-discover it.

#### Solution:

1. Open Live Network Discovery window

Click workspace tab and then icon in ribbon menu.

### 2. Select the discovery method

It is recommended to select **Discover via Seed Routers** option. NetBrain will discover the devices in your network from Seed Router(s) via neighbor relationship and next-hop. *Note: Scan IP Range* option is for the discovery for some specified IPs or subnets.

## 3. Add Seed Routers

Enter the IP of the core device in your network in the blank box. **Note**: If the core device is in your workspace, you could also click **Select Device** button> select core device> button > **OK** button to set it as a seed router.

#### 4. Select an access method

Select an access method in the drop-down menu shown in the picture bellow.

0			Live N	letwork Discovery			_ [	x t
Select the discover	y method							
Discover via Se	ed Routers			🔿 Scan IP Ran	ige			
						Select	Device Import	TP List
e.g: 10.10.10.1;	;NY_R1					Juncer	bevice import	
Start Discovery	SSH and SNMP V	0				Network S	ettings Opti	ons
Discovered devices	Telnet and SNMP SSH and SNMP							
IP Address	Telnet/SSH and SNMP SSH/Telnet and SNMP SNMP Only	SI	NMP	Hostname	Device Type	Vendor	Model	1
	oran oray							



*Note:* You may get incomplete data via only SNMP for certain functions.

### 5. Choose credentials (optional)

Click **Network Setting** button > uncheck the unnecessary credentials for the discovery > click **Close** button.

## 6. Configure Options

Click **Options** button to open **Options of Discovery** window. Reference the recommended configuration in the picture bellow.

Options of Discovery			23
Discovery depths:	3		
Scan after Seed Disc	overy		_
Scan destination	subnets		
🔽 Scan all connecte	ed subnets		
Minimum mask bi	ts: 24 🛓		
Discovery Technolog	iy .		
Use CDP to disco	ver neighbo	r devices	
Find routing prot	ocol neighba	r via SNMP	
Use CLI routing t	able to disco	ver next-hops	
Rebuild L3 and L2 t	opology aft	er discovery automatic	ally
Retrieve inventory	information	of Device/Module/Inte	rface
🔽 Don't change exist	ing device se	ettings	
ОК		Cancel	

#### Notes:

- Minimum mask bits: you could change 24 to another number according to your actual network.
- Rebuild L<sub>3</sub> and L<sub>2</sub> topology after discovery automatically: to shorten the discovery time in EE Workstation, the operation could be executed by Server Benchmark.
- Don't change existing device settings: If the option is unchecked, Shared Device Settings (restoring the management IP, access credential, access method and other information used to access devices) of devices discovered before will be overwritten by the result of this discovery.



## 7. Start Discovery

Click **Start Discovery** button in **Live Network Discovery** window to start the discovery.

### 8. View Discovery Results

Click **OK** button when a dialogue box pops up showing the discovery is complete.

For the log of the whole discovery process, view it in the log field shown as the picture bellow.

elect the discover	y method						
Discover via Se	ed Routers			🔘 Scan IP R	ange		
10.10.10.16						Select D	evice Import IP Lis
e.g: 10.10.10.1;	NY_R1						
art Discovery	Telnet and SNMP	• 0				Network Se	ttings Options
covered devices							
Address	Discover from	Ping	SNMP	Hostname	Device Type	Vendor	Model
172.24.32.49	via 172.24.3	Succeeded	netbrain	SanJose_Core	Cisco Router	Cisco	2621
172.24.32.17	via 172.24.3	Succeeded	netbrain	BSTX	Cisco Router	Cisco	2621
172.24.32.25	via 172.24.3	Failed					
172.24.32.58	via 172.24.3	Failed					
172.24.31.195	via 172.24.3	Succeeded	netbrain	BSTX	Cisco Router	Cisco	2621
172.24.101.24	via 172.24.3	Succeeded	AuthPriv:w	BJ_Acc_Sw4	Cisco IOS S	Cisco	catalyst295024
172.24.32.210	via 172.24.3	Succeeded	netbrain	BJ*POP	Cisco Router	CiscoCisco	2511
172.24.33.135	via 172.24.3	Failed					
172.24.33.140	via 172.24.3	Succeeded	netbrain	BST_POP2	Cisco Router	Cisco	2621
172.24.32.226	via 172.24.3	Succeeded	AuthNoPriv	BJ_core_3550	Cisco IOS S	Cisco	catalyst355024
172.26.4.20	via 172.24.1	Succeeded					
							4
nected Failed: (	Code 1460, Descrin	tion The current	connection has t	imeout.			
net to [10.10.10 MP get device int	18] Disconnected	ressfully via Net	vork Server(10, 1	0.14.103).time:1.61.sr	econd(s)		
d BSTX successfi	ully,(203ms)	,		,,,			
pare to retrieve	device information	j.					
pare to retrieve	Interface information via SNMP succe	ion. Issfully					
covery of 172.2	4.32.17 complete						
over Live Networ	k > Build L3/L2 Top	ology>Refresh	Workspace Data			Ek	apsed time: 00:06:22
covering [172.24	4 101 26] discove	red 35 IP Addres	s(es) found 16 d	levice(s) within 00.04.5	3		
ccessfully discove	ered: Cisco IOS Sw	itch: 5, Cisco Roi	uter:11	concercity and line out of the			

To view the log of one device's discovery, select the corresponding item and view it in the log field shown in the picture bellow.



elect the discovery	/ method						
Discover via See	ed Routers			🔘 Scan IP Ra	nge		
10.10.10.16						Select D	Device Import IP List
e.g: 10.10.10.1;	NY_R1						
art Discovery	Telnet and SNMP	• 0				Network Se	ettings Options
covered devices							
P Address	Discover from	Ping	SNMP	Hostname	Device Type	Vendor	Model
172.24.32.49	via 172.24.3	Succeeded	netbrain	San lose. Core	Cisco Router	Cisco	2621
172.24.32.17	via 172.24.3	Succeeded	netbrain	BSTX	Cisco Router	Cisco	2621
172.24.32.25	via 172.24.3	Failed					
172.24.32.58	via 172.24.3	Failed					
172.24.31.195	via 172.24.3	Succeeded	netbrain	BSTX	Cisco Router	Cisco	2621
172.24.101.24	via 172.24.3	Succeeded	AuthPriv:w	BJ_Acc_Sw4	Cisco IOS S	Cisco	catalyst295024
172.24.32.210	via 172.24.3	Succeeded	netbrain	BJ*POP	Cisco Router	CiscoCisco	2511
172.24.33.135	via 172.24.3	Failed					
172.24.33.140	via 172.24.3	Succeeded	netbrain	BST POP2	Cisco Router	Cisco	2621
172.24.32.226	via 172.24.3	Succeeded	AuthNoPriv	BJ core 3550	Cisco IOS S	Cisco	catalyst355024
172.26.4.20	via 172.24.1	Succeeded					,
							4
onnected Failed: C	Code 1460, Descrip	tion The current	connection has t	imeout.			
Inet to [10.10.10	. 18] Disconnected						
MP get device int	terface and IP succ	essfully via Netw	ork Server(10.10	0.14.103) , time:1.61 sec	cond(s)		
ID BSTX SUCCESSIU	IIIY,(203MS) device information						
epare to retrieve	interface informati	on.					
etrieve cdp neighb	or via SNMP succe	ssfully.					
scovery of 172.24	4.32.17 complete						1
cover Live Networ	k > Build L3/L2 Top	ology > Refresh	Workspace Data			E	apsed time: 00:06:22
ccessfully discove	ered: Cisco IOS Swi	itch: 5, Cisco Rou	ter:11				
ddi of o Transland	via Einishad in 00.0	1.03					

**Note**: If you find any problems when following these steps, please enter F1 on your key board to reference online help. Or you could also contact NetBrain support team at <a href="mailto:support@netbraintech.com">support@netbraintech.com</a>.