

# How to Set Up Automatic Subnet Scan Using SolarWinds® IP Address Manager







## How to Set Up Automatic Subnet Scan Using SolarWinds IPAM?

SolarWinds IP Address Manager (IPAM) allows you to perform scheduled automated IP address scans on all your subnets. SolarWinds IPAM makes it easy to create your own scan job from scratch. Each job performs a scan of network devices based on subnet. You can automate IP address scanning for all your subnets, a group of subnets, or for an individual subnet.

There are three scanning modes used to scan IP addresses:

- ICMP scan (ping sweep)
- SNMP scan
- Neighbor scan (using ARP tables) .

SolarWinds IPAM allows you to periodically scan a subnet. You have the flexibility to set it to scan as frequently as every 10 minutes or up to every 7 days based on your requirements. You can use this document as a quick reference guide for understanding how to set up and manage subnet scans with SolarWinds IPAM.

### **Configuring Automatic Subnet Scanning**

SolarWinds IPAM is capable of using both **SNMP** and **ICMP** scanning to continuously determine the status of your monitored network. The Subnet Scan Settings view allows you to select how IPAM automatically scans your network for changes.

You can configure the scan while adding a new subnet or by editing the properties for any existing subnet.

- On the Manage Subnets & IP Addresses screen, select the subnet(s) that you want to automate the scan for.
- On the right pane, click Edit to open the Edit Subnet Properties window.

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Display Name		E	dit a single group / superr	net / subnet	CIDR	Mask	Last Discovery	Location	VLAN ID
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Apac			test-scope2	10.10.10.0	24	255.255.255.0	4/19/2012		
Discovered Subnets			<u>10.10.100.0</u>	10.10.100.0	30	255.255.25	4/19/2012		
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Subnet & IP address management screen in SolarWinds IPAM





You can enter the **Scan Interval** field to set the automated scan period (in minutes, hours, or days) between 10 minutes and 7 days.

Automatic Scanning	
Scan Interval:	<ul> <li>Disable Automatic Scanning</li> <li>Update but not erase manually entered data</li> <li>Hours</li> </ul>

Automatic subnet scanning in SolarWinds IPAM

## **Configuring Neighbor Scanning**

**Neighbor Scanning** attempts to retrieve the status of a device that may not be responding to ICMP. It scans the ARP table of a neighbor router to determine which IP addresses are active.

The Neighbor Scanning feature is disabled by default. When you un-check it, additional options appear where you can add the **IP Address** of the neighbor device and select a **Scan Interval**.

Neighbor Scanning where the second se	nat is neighbor scanning?	
	Disable Neighbor Scannin	g
IP Address:		
eg.: Roll-out note, allocation purp	ose, expected use date	
Scan Interval:	4 Hours	*
	Test	

Neighbor Scanning in SolarWinds IPAM

#### **Managing Subnet Scan Settings**

Scheduled IP address scanning also helps avoid IP address conflicts by recognizing transient IP statuses. For example, if a static IP address goes offline during a maintenance update and is not reachable, SolarWinds IPAM configures that IP address as "transient" to prevent other network engineers from assigning it. You can configure the transient period for any number of consecutive days up to one year. During a subsequent scan, if the network device appears online again, IPAM shows its associated status as "used."

SolarWinds IPAM continuously scans all managed IP addresses on your network. If a device fails to respond to any SNMP or ICMP requests during the period of time designated as the **Transient Period**, IPAM changes the status of the unresponsive IP address from "used" to "available."





You can provide an appropriate value for the Transient Period (which must be a value from .2 to 340 days) in the **Duration (days)** field.

Transient Period	
Default duration     Unlimited duration     Duration (days):	inherit value from <u>Subnet Scan Settings</u>

Transient Period settings in SolarWinds IPAM

If you want to customize the Transient Period settings further, select **Inherit Values from Subnet Scan Settings. This** opens a new browser with advanced **Subnet Scan Settings** where you can specify ICMP and SNMP scanning thresholds.

Subnet Scan Se	ttings	
Max number of Simult	aneous Scans: 2	
Transient Period		
Duration (days):	Unlimited Duration	
ICMP Scanning		
	Enable ICMP Scanning	
Pings per Address:	3	
Delay between Pings:	45	
Ping Timeout (ms):	2500	
SNMP Scanning		
	Enable SNMP scanning (dependent on ICMP sca	
	Enable SNMP neighbor scanning What is neighbor:	scanning?
SNMP Retries:	3	
SNMP Timeout (ms):	2500	
	SAVE	

Subnet Scan Settings in SolarWinds IPAM





## Why SolarWinds IP Address Manager?

#### Eliminate Complexity, Improve Reliability, Save Time & Money!

- Manage & monitor Microsoft® DHCP/DNS, ISC DHCP/DNS, and Cisco® DHCP servers.
- Automatic subnet discovery and IP address scanning for the most accurate real-time discovery and verification.
- Easily search addresses for history, op status, MAC, device type, DHCP, DNS properties and more.
- Optional UDT integration shows where an end-point device is connected to the network and who is using the device.
- Delegate tasks to network engineers and system administrators based on role.
- Supports IPv4 and IPv6 networks.
- Alert notifications help prevent your subnets and DHCP scopes from filling up.
- Automatically discovers used and unused addresses.
- Typically deploys in less than an hour.





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#### SolarWinds IP Address Manager

SolarWinds (NYSE: SWI) provides powerful and affordable IT management software to customers worldwide - from Fortune 500 enterprises to small businesses. The company works to put its users first and remove the obstacles that have become "status quo" in traditional enterprise software. SolarWinds products are downloadable, easy to use and maintain, and provide the power, scale, and flexibility needed to address users' management priorities. SolarWinds online user community, thwack is a gathering-place where tens of thousands of IT pros solve problems, share technology, and participate in product development for all of the company's products. Learn more today at http://solarwinds.com.

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