

在无线接入点上配置IPv4和IPv6

目标

Internet协议第4版(IPv4)是IP编址的常用形式，用于标识网络中的主机，并使用32位格式。Internet协议第6版(IPv6)是下一代IP地址标准，旨在取代IPv4格式。IPv6使用128位编址代替IPv4中使用的32位编址，从而解决地址稀缺问题。

此配置有助于通过动态主机配置协议(DHCP)或手动分配IP地址。默认情况下，WAP通过广播自动请求网络信息。如果网络上没有DHCP服务器，则使用其默认IP地址。如果要使用静态IP地址，必须禁用DHCP客户端并手动分配IP地址和其他网络信息。

本文档的目标是在无线接入点设备上配置IPv4和IPv6设置。

适用设备

- WAP100系列
- WAP300系列
- WAP500系列

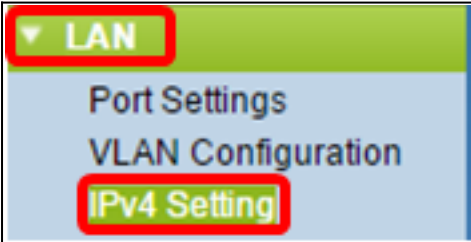

软件版本

- 1.0.1.4 - WAP131、WAP351
- 1.0.6.2 - WAP121、WAP321
- 1.2.1.3 - WAP371、WAP551、WAP561
- 1.0.1.2 - WAP150、WAP361
- 1.0.0.17 - WAP571、WAP571E

配置IPv4

配置IPv4 DHCP

步骤1. 登录基于Web的实用程序并根据您的WAP模式选择LAN > IPv4 Setting或LAN > VLAN和IPv4 Address。

WAP131、WAP150、WAP351、WAP361、WAP571、WAP571E	WAP121、WAP321、WAP371、WAP551、WAP561
	

步骤2. 在Connection Type区域，单击DHCP单选按钮以自动获取IP地址。默认情况下选择此设置。

IPv4 Setting

Connection Type: DHCP Static IP

Static IP Address: . . .

Subnet Mask: . . .

Default Gateway: . . .

Domain Name Servers: Dynamic Manual

. . .

. . .

步骤3.从Domain Name Servers单选按钮中选择首选的DNS配置。DNS是一种协议，通过将域名转换为各自的IP地址，帮助设备通过Internet访问其他计算机和专用网络。

注意：如果启用DHCP，则DNS配置是可选的。

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

. . .

. . .

可用选项定义如下：

动态 — WAP从局域网(LAN)上的DHCP服务器获取域名服务器(DNS)地址。如果选择此选项，请跳至[步骤4](#)。

手动 — 允许您在“域名服务器”字段中手动配置一个或多个DNS服务器地址。

[步骤4](#).单击“保存”。

配置静态IPv4地址

步骤1.点击Static IP的单选按钮。

IPv4 Settings

Connection Type: DHCP
 Static IP

Static IP Address: . . .

Subnet Mask: . . .

Default Gateway: . . .

Domain Name Servers: Dynamic
 Manual

. . .

. . .

步骤2.在Static IP Address字段中输入接入点的IP地址。IP地址应是唯一的，并且尚未分配给同一网络中的任何其他设备。

IPv4 Settings

Connection Type: DHCP
 Static IP

Static IP Address: . . .

Subnet Mask: . . .

Default Gateway: . . .

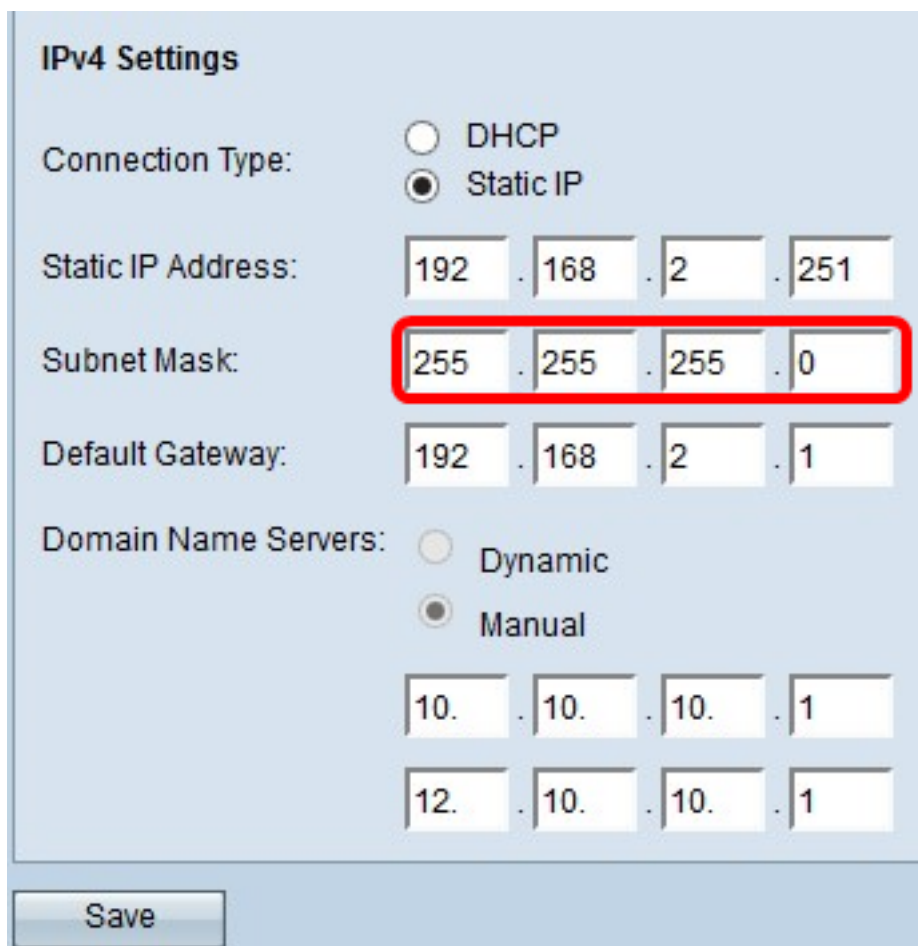
Domain Name Servers: Dynamic
 Manual

. . .

. . .

步骤3.在Subnet Mask字段中输入网络的子网掩码。默认掩码取决于您选择的IP地址类别或您为网络使用的子网数量。

注意：默认掩码为255.255.255.0



The image shows a screenshot of the IPv4 Settings dialog box. The 'Connection Type' is set to 'Static IP'. The 'Static IP Address' is 192.168.2.251. The 'Subnet Mask' is 255.255.255.0, which is highlighted with a red box. The 'Default Gateway' is 192.168.2.1. The 'Domain Name Servers' are set to 'Manual' with addresses 10.10.10.1 and 12.10.10.1. A 'Save' button is at the bottom.

Field	Value
Connection Type	Static IP
Static IP Address	192.168.2.251
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
Domain Name Servers	10.10.10.1, 12.10.10.1

步骤4.在Default Gateway (默认网关) 字段中输入默认网关IP地址。默认网关是计算机上的一个节点，当IP地址与路由表中的路由不匹配时使用。然后，它会相应地转发流量。此设备通常是路由器。要了解如何使用Windows命令提示符查找连接的设备的默认网关IP地址，请单击[此处](#)。

IPv4 Settings

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 2 . 251

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 2 . 1

Domain Name Servers: Dynamic
 Manual

10. . 10. . 10. . 1

12. . 10. . 10. . 1

Save

步骤5.在Domain Name Server字段中输入DNS的IP地址。DNS是一种协议，通过将域名转换为各自的IP地址，帮助设备通过Internet访问其他计算机和专用网络。

注意：您也可以在提供的另一个字段中添加另一个DNS服务器IP地址，但它是可选的。如果其中一台服务器发生故障或不可用，则拥有两台DNS服务器会很有帮助。

IPv4 Settings

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 2 . 251

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 2 . 1

Domain Name Servers: Dynamic
 Manual

10. . 10. . 10. . 1

12. . 10. . 10. . 1

Save

步骤6.单击“保存”。

IPv4 Settings

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 2 . 251

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 2 . 1

Domain Name Servers: Dynamic
 Manual

10. . 10. . 10. . 1

12. . 10. . 10. . 1

Save

步骤7.如果您之前已预配置设置，将出现一个弹出窗口，确认无线设置即将更新，并且可能发生断开。Click OK.

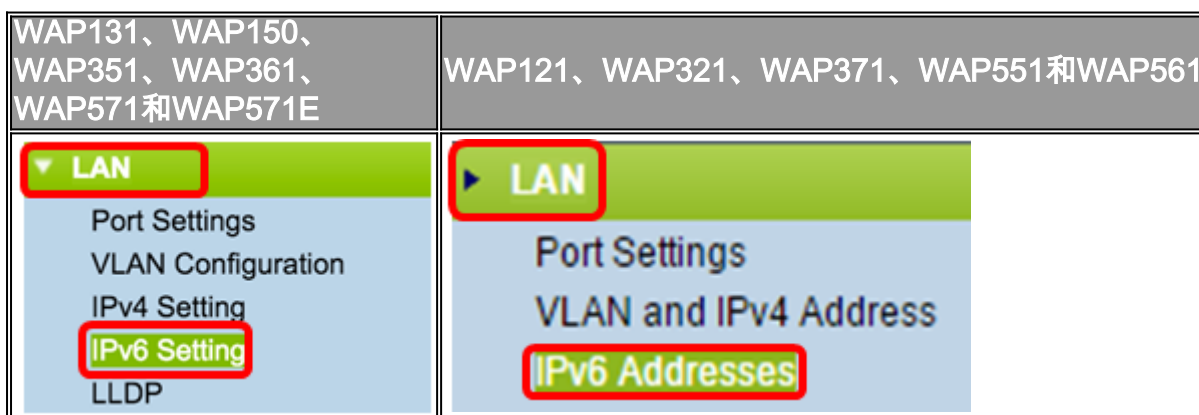


您现在应该已静态配置IPv4地址。

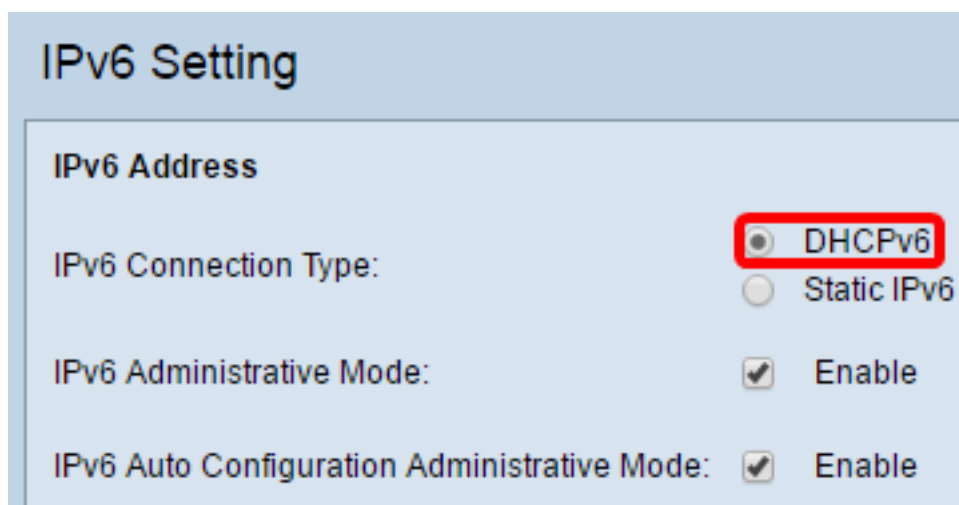
配置IPv6

配置IPv6 DHCP

步骤1.登录基于Web的实用程序，然后选择LAN > IPv6 Setting或LAN > IPv6 Addresses.



步骤2.单击DHCPv6作为IPv6连接类型。IPv6连接类型告知设备如何获取IPv6地址。



步骤3.要允许对接入点的IPv6管理访问，请选中Enable IPv6 Administrative Mode复选框。

IPv6 Addresses

IPv6 Connection Type:	<input checked="" type="radio"/> DHCPv6
	<input type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="::"/>
Static IPv6 Address Prefix Length:	<input type="text" value="0"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="::"/>
IPv6 Domain Name Servers:	<input checked="" type="radio"/> Dynamic
	<input type="radio"/> Manual
	<input type="text" value="::"/>
	<input type="text" value="::"/>

步骤4.要通过LAN端口上收到的路由器通告了解其IPv6地址和网关，请选中**Enable IPv6 Auto Configuration Administrative Mode**复选框。接入点可以有多个自动配置的IPv6地址。

IPv6 Addresses

IPv6 Connection Type:	<input checked="" type="radio"/> DHCPv6
	<input type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="..."/>
Static IPv6 Address Prefix Length:	<input type="text" value="0"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="..."/>
IPv6 Domain Name Servers:	<input checked="" type="radio"/> Dynamic
	<input type="radio"/> Manual
	<input type="text" value="..."/>
	<input type="text" value="..."/>

Save

步骤5.单击Save。

IPv6 Addresses

IPv6 Connection Type: DHCPv6
 Static IPv6

IPv6 Administrative Mode: Enable

IPv6 Auto Configuration Administrative Mode: Enable

Static IPv6 Address:

Static IPv6 Address Prefix Length: (Range: 0 - 128, Default: 0)

Static IPv6 Address Status:

IPv6 Autoconfigured Global Addresses:

IPv6 Link Local Address: fe80::ceef:48ff:fe87:4970/64

Default IPv6 Gateway:

IPv6 Domain Name Servers: Dynamic
 Manual

Save

配置静态IPv6地址

步骤1.单击Static IPv6作为IPv6 Connection Type (IPv6连接类型) , 手动将IPv6地址分配给接入点。

IPv6 Addresses

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="2001:DB8:0:ABCD::1"/>
Static IPv6 Address Prefix Length:	<input type="text" value="48"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="2001:DB8:0:0:E000::F/64"/>
IPv6 Domain Name Servers:	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Manual
	<input type="text"/>
	<input type="text"/>

步骤2.选中IPv6 Administrative Mode复选框以启用IPv6管理访问。这允许通过IPv6地址访问设备管理接口。

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable

步骤3.选中IPv6 Auto Configuration Administrative Mode复选框以在设备上启用IPv6自动地址配置。默认情况下启用该接口。

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable

步骤4.在Static IPv6 Address字段中输入接入点的IPv6地址。这是唯一的IPv6地址，网络中的任何其他设备都不应使用它。这是可路由的全局IPv6地址。

IPv6 Addresses

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="2001:DB8:0:ABCD::1"/>
Static IPv6 Address Prefix Length:	<input type="text" value="48"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="2001:DB8:0:0:E000::F/64"/>
IPv6 Domain Name Servers:	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Manual
	<input type="text"/>
	<input type="text"/>

步骤5.在Static IPv6 Address Prefix Length字段中输入静态地址的前缀长度。前缀长度是0到128范围内的整数，指定IPv6 IP地址的网络部分。在本例中，使用48。

注意：这类似于IPv4中的子网掩码。默认前缀长度为0。

IPv6 Addresses

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="2001:DB8:0:ABCD::1"/>
Static IPv6 Address Prefix Length:	<input type="text" value="48"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="2001:DB8:0:0:E000::F/64"/>
IPv6 Domain Name Servers:	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Manual
	<input type="text"/>
	<input type="text"/>

Save

步骤6.在Default IPv6 Gateway (默认IPv6网关) 字段中输入默认网关的IPv6地址。

IPv6 Addresses

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="2001:DB8:0:ABCD::1"/>
Static IPv6 Address Prefix Length:	<input type="text" value="48"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="2001:DB8:0:0:E000::F/64"/>
IPv6 Domain Name Servers:	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Manual
	<input type="text"/>
	<input type="text"/>

Save

步骤7. 在“IPv6域名服务器”字段中输入IPv6 DNS服务器的地址。

IPv6 Addresses

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="2001:DB8:0:ABCD::1"/>
Static IPv6 Address Prefix Length:	<input type="text" value="48"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="2001:DB8:0:0:E000::F/64"/>
IPv6 Domain Name Servers:	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Manual
	<input type="text" value="2001:DB8:0:1:FFFF:1234::5/64"/>
	<input type="text" value="2001:DB8:0:1:FFFF:5678:5/64"/>

Save

步骤8.单击“保存”。

IPv6 Addresses

IPv6 Connection Type:	<input type="radio"/> DHCPv6
	<input checked="" type="radio"/> Static IPv6
IPv6 Administrative Mode:	<input checked="" type="checkbox"/> Enable
IPv6 Auto Configuration Administrative Mode:	<input checked="" type="checkbox"/> Enable
Static IPv6 Address:	<input type="text" value="2001:DB8:0:ABCD::1"/>
Static IPv6 Address Prefix Length:	<input type="text" value="48"/> (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	<input type="text" value="2001:DB8:0:0:E000::F/64"/>
IPv6 Domain Name Servers:	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Manual
	<input type="text" value="2001:DB8:0:1:FFFF:1234::5/64"/>
	<input type="text" value="2001:DB8:0:1:FFFF:5678:5/64"/>

Save

您现在应已配置静态IPv6设置。