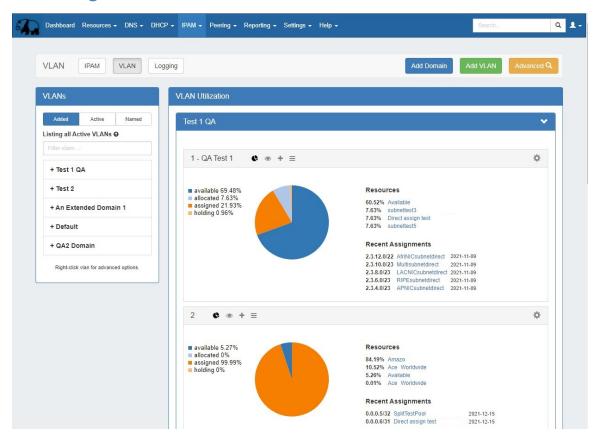
Working with the VLAN Manager

Working with VLANs



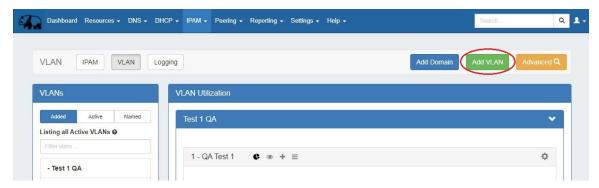
This page provides detailed instructions on performing specific tasks in the VLAN Manager. Before reading this section, please ensure that you are familiar with navigating to the VLAN areas, including the VLAN Sidebar, VLAN Utilization area, VLAN Manage, and VLAN Advanced. For a broader overview of the VLAN system, its workflow, and basic navigation through the available VLAN pages, please refer to the VLAN page. For domain level tasks, see Working with Domains.

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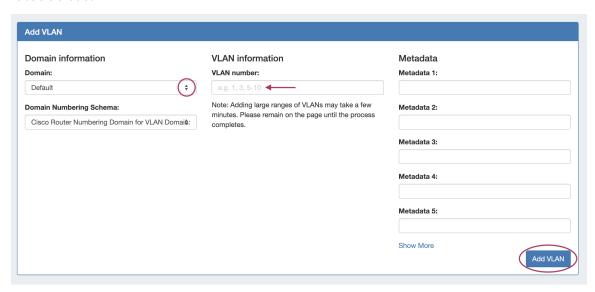
Add VLANs to a Domain

After creating domains, VLANs need to be added for that domain out of the pool of available VLANs.

From the VLAN Home page, click Add VLAN.



Select the domain, and then enter the individual or range of VLANs to add. Optionally, you may enter VLAN metadata field values, if metadata fields are enabled.

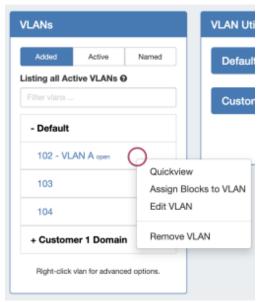


When done, click Add VLAN.

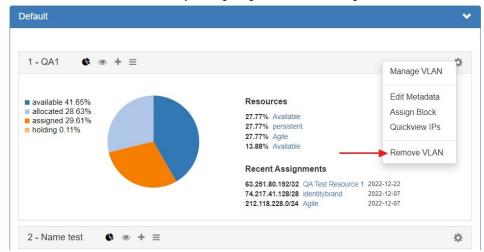
Remove VLANs

Removing VLANs may be performed from multiple areas:

• On the VLAN Home page sidebar, by right clicking on the VLAN and selecting Remove VLAN from the menu



• From the VLAN Utilization Box for the VLAN, by clicking the gear icon and selecting Remove VLAN



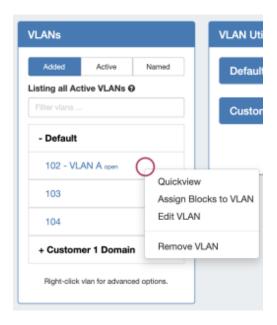
• From VLAN Advanced, by right clicking on the desired VLAN in the list, and selecting Remove VLAN



Deleting a VLAN permanently removes the VLAN from the domain, and removes the VLAN association from any blocks assigned to that VLAN, and permanently deletes the VLAN's metadata.

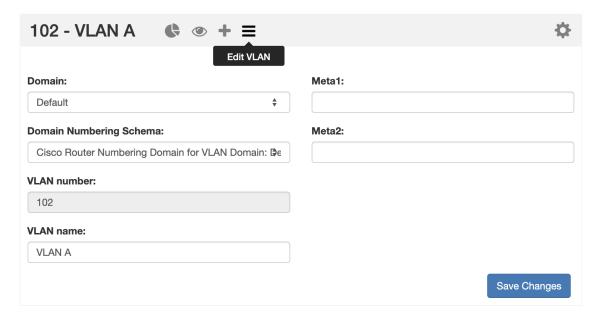
Edit VLAN (Edit VLAN Panel)

You can edit a VLAN by clicking on the VLAN in the VLAN List sidebar, then selecting Edit VLAN.



This opens the Edit VLAN panel for the selected VLAN. You may also click on the "List" icon in the VLAN Utilization box or in VLAN Manage to open the Edit VLAN panel.

The Edit VLAN panel allows you to view and edit the data associated with the VLAN (Note: not all VLAN fields may be editable).



Typically, editable VLAN fields include the VLAN Name and any enabled VLAN metadata fields enabled in VLAN Columns. To change the information in these fields, click inside the relevant box, type your change, and then click Save Changes. The information provided in these fields will also display in the VLAN Advanced Global View.

You cannot change the domain of the VLAN, but you may add a descriptive name or edit VLAN Metadata (if enabled).

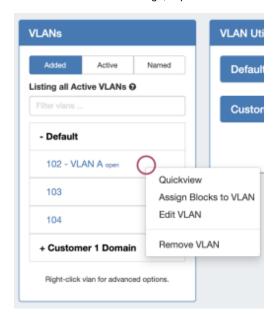
After making your changes, click Save Changes. The named VLAN will now show both VLAN number and name when viewing domain / VLAN lists or when working with blocks.

Add Blocks to VLANs

After VLANs have been enabled for domains, you can associate those VLANs with IP blocks.

Using the "Assign Blocks" Panel

While on the VLAN Home Page, expand the desired domain in the sidebar and right click on a VLAN. Then select Assign Blocks to VLAN.

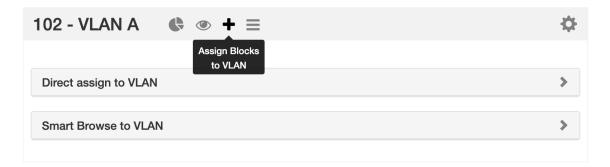


This navigates to the VLAN's Utilization Box, and opens the Assign Blocks panel. You may also access the panel directly from the Utilization Box or VLAN Manage by clicking on the plus-sign icon.

From the Assign Blocks panel, you can choose to Direct Assign a block to the VLAN, or use filter criteria to user Smart Browse to assign blocks.

Assign Blocks to VLAN

Blocks may be assigned to the VLAN from the Assign Blocks panel, opened or closed by clicking on the plus-sign icon. Two assignment options are available: Direct Assign to VLAN, if you know the specific block to assign, and Smart Browse to VLAN, where you can specify filter conditions and select one of more blocks meeting those conditions.

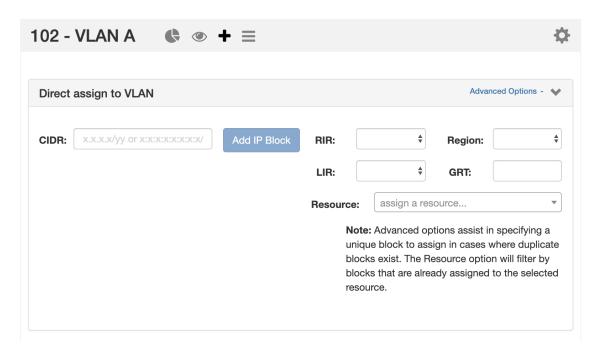


To open either option, click on the appropriate header bar to expand the module.

Expand the area below for more details on Direct Assign to VLAN and Smart Browse to VLAN:

Direct Assign to VLAN

To Direct Assign a specific block to the VLAN, expand the Direct Assign to VLAN module, then enter the CIDR to assign into the CIDR" box, and click Add IP Block.

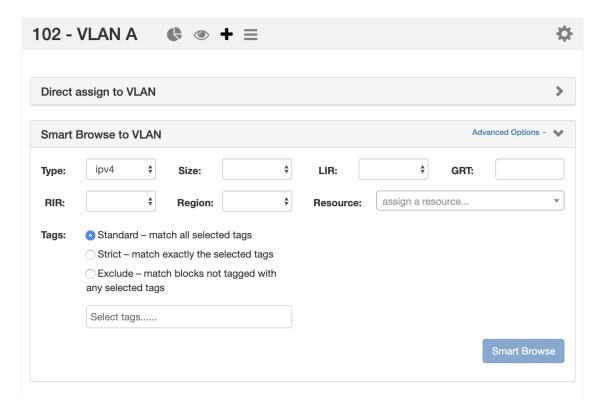


If blocks exist with the same CIDR (such as in duplicate 1918 space), you may differentiate between the two by clicking on Advanced Options, and providing additional filter criteria to use to assign a specific block.

Smart Browse to VLAN

Smart Browse to VLAN is used to search for a general list of blocks available to assign to the VLAN that meets certain criteria. Expand the Smart Browse module by clicking on the header bar.

Then, enter your filter criteria. At minimum, block type, size, and RIR must be provided; region and tags are optional.



If further filtering is needed, click Advanced Options to open the LIR, Custom Code (here: as "GRT"), and assigned resource fields to use.

Once you have entered your filter criteria, click Smart Browse to display your results.

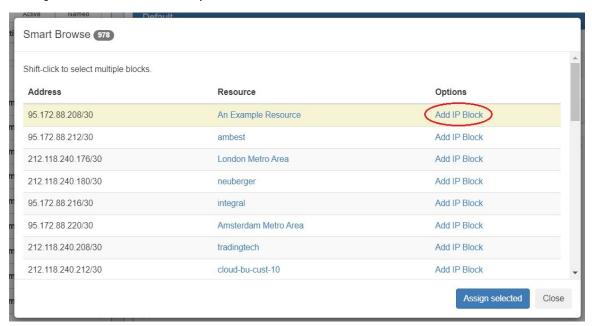
Assigning from Smart Browse

The Smart Browse results list will display a list of blocks that a) meet your filter criteria, and b) do not already have a VLAN assigned.

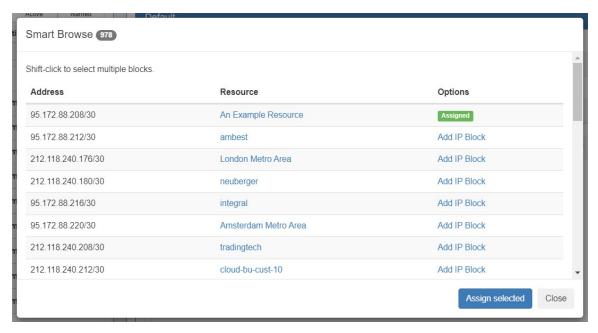
You may assign individual blocks immediately (Add IP Block), or select multiple blocks and delay assignment until after your final selections are complete (Assign Selected).

Immediate Assignment:

To assign an individual block immediately from the list to the VLAN, click Add IP Block for the desired block.



After clicking Add IP Block, the block will immediately be assigned to the VLAN, and an "Assigned" status will display for the block in the Smart Browse list.



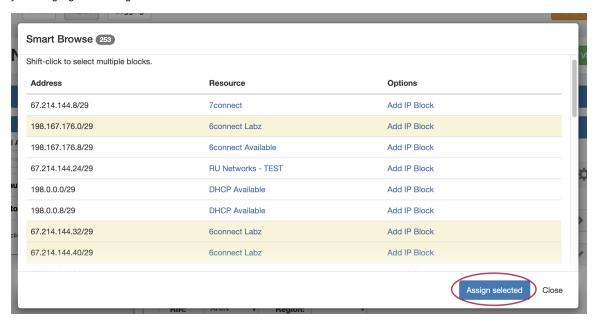
From here, you may assign additional blocks. Click Close to exit when complete.

If the "Assigned" status displays for all blocks you intend to assign, then you may skip clicking Assign Selected - as nothing else remains to assign - and instead click Close to exit.

Delayed Assignment / Selecting Multiple Blocks:

If you wish to assign multiple blocks to the VLAN at the same time, or mark a single block to assign later while continuing to browse the list, you may select a block to mark for later assignment and then assign all selected blocks at once.

To select a single block, left click on row for the block (taking care not to accidentally click on a blue link). Note that the row will have a yellow highlight indicating it is selected:



To select additional blocks, shift-click on each row you wish to mark for assignment. You may freely scroll through the results to review your selection.

When done, click Assign Selected. All highlighted blocks will be assigned to the VLAN at the same time, and the Smart Browse window will close.

Add / Update VLAN to Blocks from IPAM Manage or VLAN Manage:

When editing a block in either IP Manage (IPAM Tab -> Action Menu (wrench) -> Manage), or VLAN Manage (IPAM Tab - VLAN -> Action Menu (wrench)), you can select an existing domain and VLAN to associate to the block.

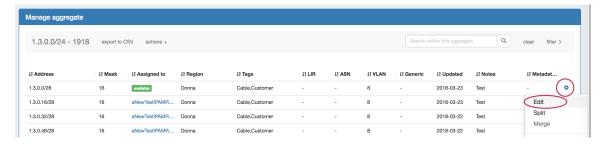
VLAN Manage:

From the VLAN Manage page, click on the Action Menu (gear icon) for the desired block, the select Edit. You may also double-click on the block to open the same screen.

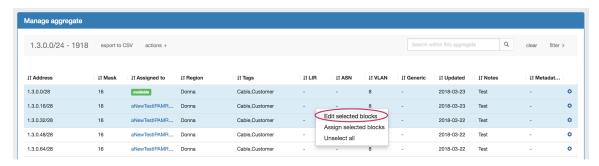
In the Edit Attributes dialog for the block, change the domain to the desired item, then select the VLAN. Click Save when done.

IPAM Manage:

From the IPAM Manage page, right click on the Action Menu (gear icon) for the desired block, then select Edit"

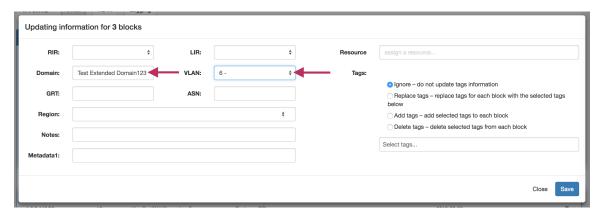


To select multiple blocks to edit, hold down the shift key and click on the blocks you wish to edit - the selected blocks will be highlighted. Right-click anywhere in the blue highlighted area, and select Edit Selected Blocks.



The Edit Block dialog will pop up for the selected block(s). Edit the domain by clicking in or typing in the domain search box, and select the desired domain

Then, select the VLAN for the blocks from the enabled VLAN list. When done, click Save.



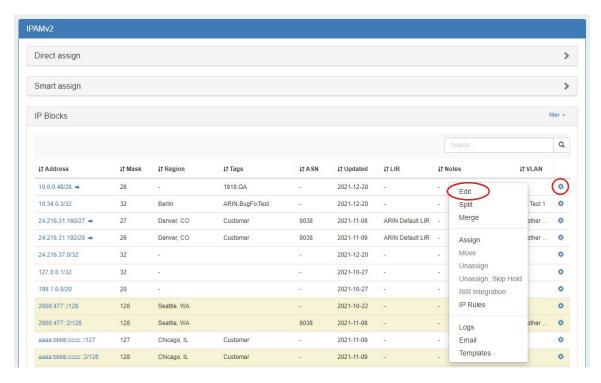
VLANs and Child Blocks

NOTE: Child blocks whose Parent blocks already have an assigned domain / VLAN, <u>may not</u> have domains and VLANs changed to be different than the Parent Block's values. If you attempt to save domain / VLAN changes to a child block under this situation, an error will occur.

i.e., Parent and Child IP Blocks must have matching domain / VLAN values.

Add / Update VLAN to Blocks from IPAM Gadget:

You may also add / edit domain /VLAN information when editing a block in the IPAM Gadget. From the IP block's Action Menu (gear icon), select Edit.



Then, in the Edit Attributes dialog, search for or type the desired domain, select VLAN information, and click Save.

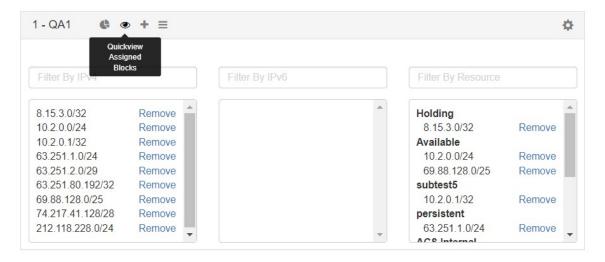


Remove Blocks from a VLAN

Quickview

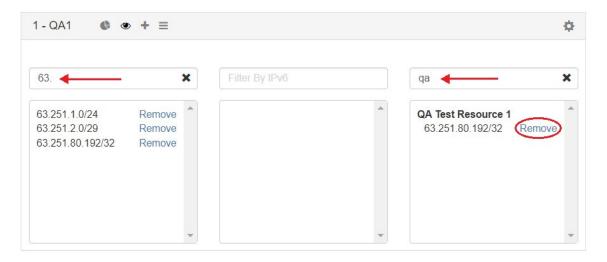
The Quickview panel provides a condensed, filterable list of all blocks assigned to that VLAN, separated into three columns - IPv4 blocks, IPv6 blocks, and grouped by resource.

To open or close the Utilization panel, click on the "Eye" icon in the grey header bar.

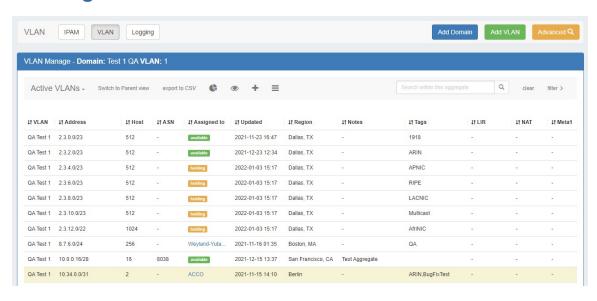


While in the Quickview panel, you may easily search for a block by typing the all or part of the CIDR into the IPv4 or IPv6 Filter boxes - useful for verifying an assignment or quickly scanning ranges.

You may also remove a block from the VLAN with a single click of the Remove button.



Working with VLAN Metadata

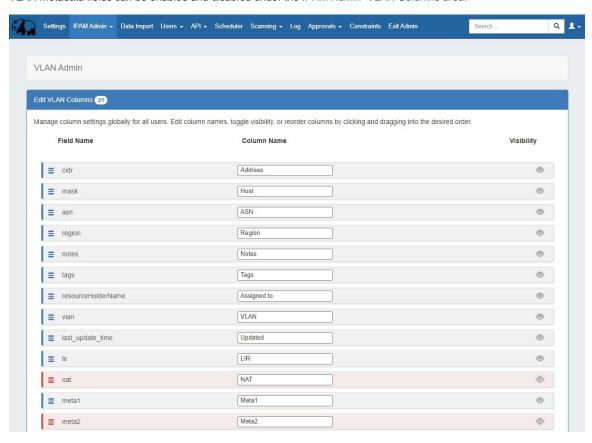


Customizable metadata fields are available to hold VLAN-specific information such as Location, Client, Firewall, Gateway, and more.

These fields can be enabled and disabled in IPAM Admin Edit VLAN Columns, and viewed / edited under Edit VLAN in the VLAN Tab and in VLAN Manage.

Enable / Disable VLAN Metadata Fields

VLAN metadata fields can be enabled and disabled under the IPAM Admin VLAN Columns area.



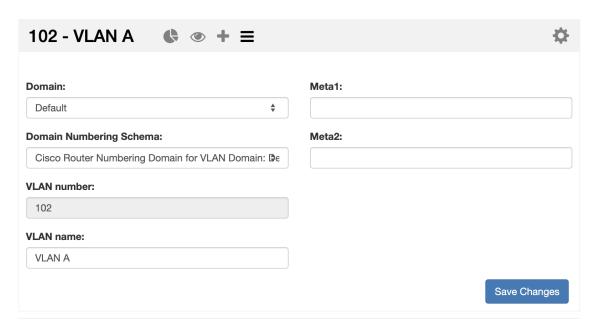
Here, you may edit the order of columns, rename columns, and enable/disable column visibility.

Any columns that are disabled will hide the column from VLAN Manage, as well as hide the applicable field from any VLAN filters or Edit VLAN actions.

View / Edit Metadata Field Information

VLAN metadata may be viewed and edited from VLAN Home, VLAN Manage, and VLAN Advanced.

While in the IPAM Tab -> VLAN Home page, expand the desired domain from the left sidebar and right click on a VLAN. Then open the Edit VLAN panel.



The Edit VLAN panel may also be opened from VLAN Manage (click on the List icon), or from VLAN Advanced (right-click on the desired VLAN and select Edit VLAN).

Additional Information

For information on working with domains, see:

· Working with Domains

For a higher level overview of the VLAN Manager, see:

VLAN