

Maps - Dynamic Maps Feature

Page Depreciated and Archived, see replacement [Dynamic Geographical Maps](#)

Overview

As of opCharts version 3.2.7 a new feature "Dynamic Maps" has been implemented. Dynamic Maps allows you to quickly generate and save maps based off of filters designated by you.

Creating a Dynamic Map

Join Paul McClendon, an Opmantek Support Engineer, as he demonstrates how to set up a dynamic map, using weather information, for example, to display data using opCharts.

To begin creating your Dynamic Map navigate to the Nodes view - Menu -> Views -> Nodes. From the nodes list you adjust the nodes you're seeing by setting some filters using the Node Filter box (1) on the left and/or the search box (6) above the table on the top right of this screen. Every click of an additional filter will make changes to the URL setting the filter property for example: "filter":{"nodestatus":"unreachable"} would create a filter to display only the nodes which the node status of unreachable. Once the desired filters are in place you can instantly generate either a Network Map or Geographical map with the filtered device information by clicking either "View in Network Map"(4) or "View in Geographical Map"(5).

The screenshot shows the opCharts 3.2.7 Nodes view. The interface includes a sidebar with filters (1), a list of current filters (2), a table of nodes (3), and buttons to view in network map (4) or geographical map (5). A search box (6) is also present.

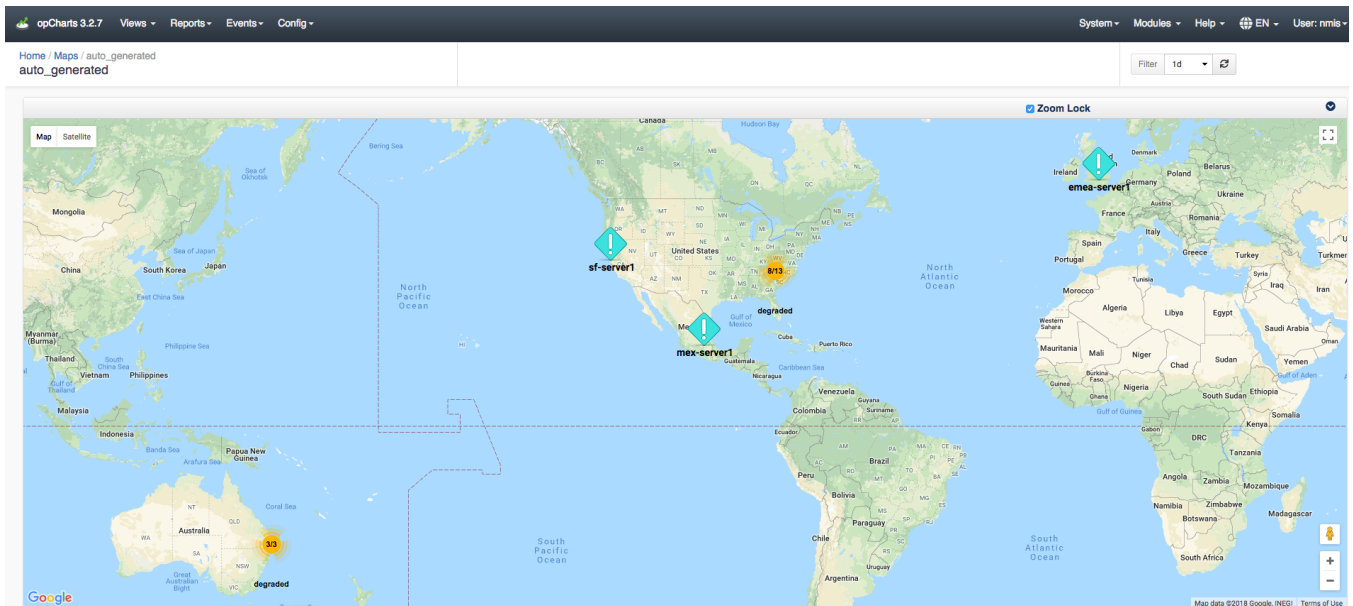
Name	Host	Links	Node Status	Group	Node Type	Role	Vendor	Location	Health	Last Update
one-server1	192.168.88.8		degraded	Brisbane	server	access	net-snmp	Surfers_Paradise	88.280	
char-server1	192.168.88.8		degraded	Charlotte	server	core	net-snmp	USA_East_Coast	88.417	
demo	localhost		degraded	DataCenter	server	core	net-snmp	Cloud	91.810	
eight	10.152.0.5		degraded	NMISB	server	core	net-snmp	Altona	89.558	
emea-server1	192.168.88.8		degraded	Oxford	server	core	net-snmp	EMEA	88.412	
eris	192.168.88.9		degraded	DataCenter	server	core	VMware Inc.	Cloud	91.661	
hel	hel.opmantek.com		degraded	DataCenter	server	core	Microsoft	Cloud	81.202	
mex-server1	192.168.88.8		degraded	MexicoCity	server	core	net-snmp	LATAM	89.591	
nine	10.152.0.6		degraded	NMISB	server	core	net-snmp	Altona	83.746	
odem	192.168.88.15		reachable	DataCenter	server	distribution	net-snmp	Cloud	83.548	
odin	odin		degraded	DataCenter	server	core	VMware Inc.	Cloud	84.940	
odr	192.168.88.6		reachable	DataCenter	server	access	VMware Inc.	Cloud	84.407	
sf-server1	192.168.88.8		degraded	San_Francisco	server	core	net-snmp	USA_West_Coast	88.823	
thor	thor.opmantek.com		degraded	DataCenter	server	core	net-snmp	Cloud	88.672	
toro-server1	toro-server1		reachable	Toronto	server	core	net-snmp	Cloud	82.977	
ubunto	ubunto.opmantek.com		reachable	Open-Audit	server	core	net-snmp	Cloud	88.383	
vienna-server1	vienna-server1		reachable	Branches	server	core	net-snmp	Cloud	89.407	
vrouter_host	10.248.1.1		degraded	DataCenter	server	core	net-snmp	Cloud	73.247	
wmi-hel	192.168.88.73		degraded	NMISB	server	access	Microsoft	Cloud	88.407	

View	Description
(1) Node Filter	List of filters to be applied to the nodes table.
(2) Current Filters	Current filters applied to the nodes table.
(3) Nodes Table	Nodes table displaying filtered nodes.
(4) View in Network Map	Takes selected nodes to generate a Network Map. (See Topological Map below)
(5) View in Geographical Map	Takes selected nodes to generate a Geographical Map. (See Geographical Map below)
(6) Search Filter	Search for specific Node Names, Hosts, Groups, or Locations.

Geographical Map

When choosing to display a Geographical Map using this method the user is sent to the 'Show' page for the map, not the map creator. This is done because the map generated is useful without any changes made to it. If you would like to save this map click the drop-down in the top right hand corner and select 'Create static map' or 'Create dynamic map'. If you choose to create a static map the list of nodes in the map creator is saved into the map and won't change again without the user editing the map. If the user sets a specific location and zoom that will also be saved into the map.

NOTE - The list of nodes on a dynamic map only changes when the map is reloaded/the page is refreshed. Dashboards automatically refresh every X minutes, this refresh only updates the node status, it will not update the contents of the node.



Creating a dynamic map saves the 'dynamic' flag into the map as well as the filter used to create the map. When the map is saved the list of nodes is thrown away, their locations are thrown away, any changes made to the map view are basically thrown away. This is because everything in the map is dynamic, it's generated from the filter. The user can only change the name, description, and title. In the map creator you'll notice that all the "Component" buttons are grayed out and some text above them has been added "Components cannot be added to dynamic maps." as shown in the image below. Things like positioning and zooming are not saved, when the map is loaded all matching nodes are added and then the map is told to make all nodes fit into the view. Both types of Geographical maps can be added to the Dashboard.

Components

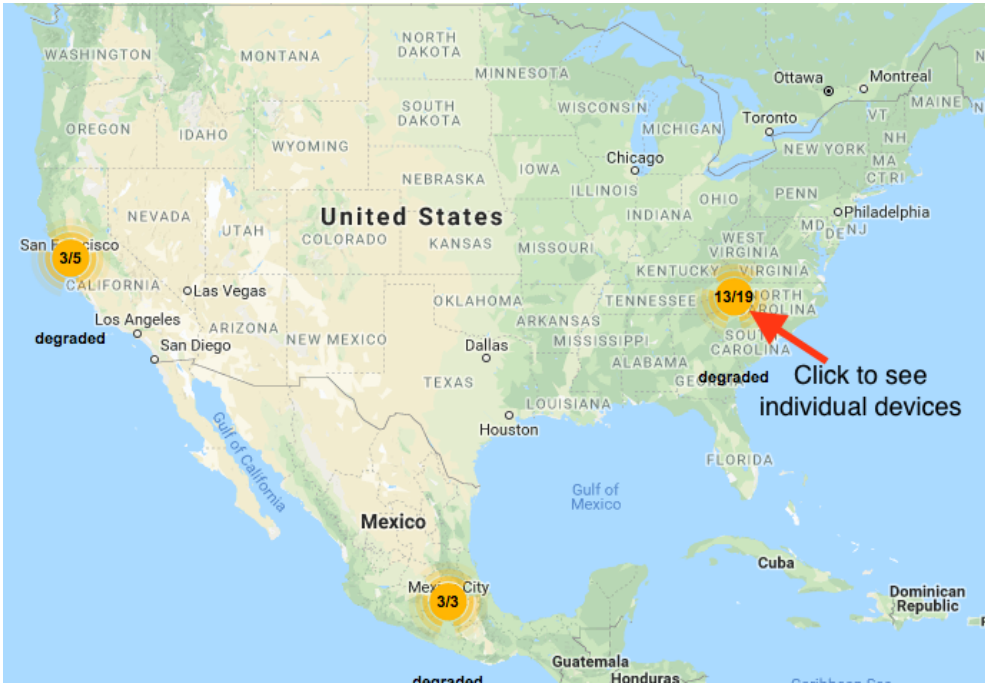
Components cannot be added to dynamic maps.

Add Node Add Group Add Custom Group Add Link

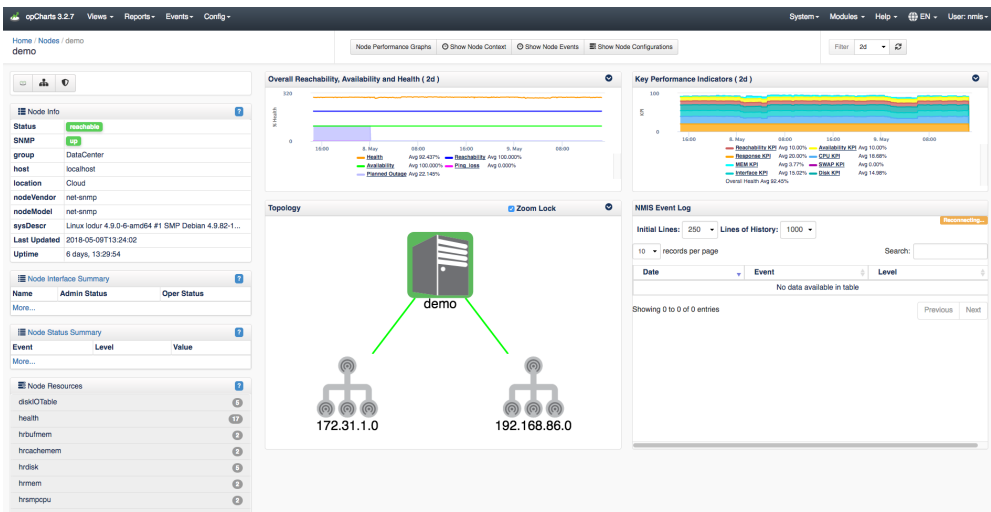
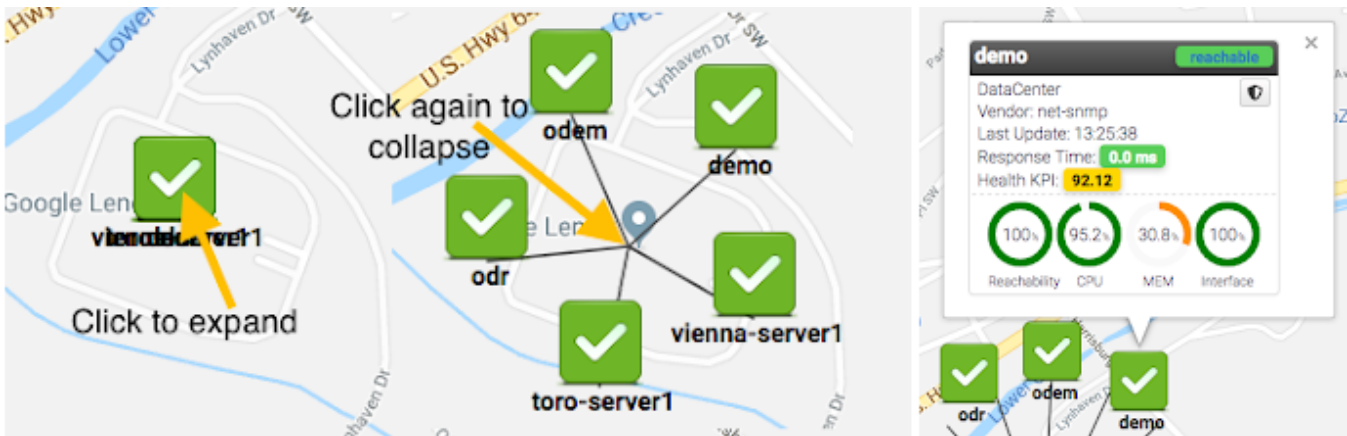
Add Interface Link Add Placeholder

Viewing multiple devices stacked at one location made easier

Another feature added in opCharts 3.2.7 is Geographic maps that have many nodes in the exact same spot will now fan out when clicked so all nodes from that spot can be easily seen. Notice the image below has groups of clustered devices at or near the same location displaying the devices at each geographical location. Clicking these clusters will drill into this location displaying each device at this location.



When clicking the cluster you are brought to a screen similar to the one shown below in the image to the left. Clicking this group of devices will fan or expand these devices out organizing them making it easier to view specific device information. When the devices are expanded you can click on each one quickly granting you information on that device as well as allowing you to view the device details page by clicking the node name (in this example demo) in the popup window.



Topological Map

When creating a Topological Map the user is put into the map 'creator' because topological maps aren't as useful if the user cannot right click and choose to add subnets or neighbors etc. and those functions are not available when just viewing the map. When the topological map is saved the dynamic flags are thrown away and the list of nodes that are on the map are saved into the map definition making it 'static'. At the moment there is no way to save a dynamic topological or network map. After saving the map, it can be added to the dashboard.

