



ENTUITY

SOFTWARE™



IP ADDRESS MANAGEMENT (IPAM)

IP address management is a means of planning, tracking, and managing the IP address space used in a network. With IP Address Management, administrators can ensure that the inventory of assignable IP addresses remains current and sufficient.



WHAT IS IT?

This feature built within Entuity Software™ allows a customer to combine the network intelligence of Entuity with the administrative management of IP address resourcing and allocation.

From Entuity v21.0 GA upwards, you can use IP address management (IPAM) to plan, track, and manage the IP address space used in your network in the context of IPv4/v6 networks and subnets (referred to as scopes) and ensure that the inventory of assignable IP addresses remains current and sufficient.

- View IP networks, their IP ranges, and their hierarchies
- Add, edit, import, and delete networks
- Schedule and manually run scans of networks
- View IP addresses within a selected network, add comments to individual IP addresses, and delete IP addresses from a network
- View, add, edit, and delete DHCP servers to automate the gathering of DHCP scope details. DHCP servers provide scopes to be used by the networks that you have added. You can select a scope and use it to create a network.
- View the scope of DHCP servers
- Raise incidents and events for when IPAM IP usage exceeds a threshold, and when an IPAM conflict is found (i.e., when a network has an IP range that is not present on its DHCP server)

** Networks cannot overlap unless one is the child of another*

*** Does not require additional licensing*



ADDITIONAL NOTES:

Entuity RESTful API functionality allows undertaking of IPAM functions and specifies global values used in IPAM. In certain cases, you can specify individual network settings, e.g., when setting the "Usage Medium" and "Usage High" thresholds in an individual network.

IPAM networks are populated by scanning, which can be scheduled or run manually.



MULTI-SERVER CONFIGURATIONS

You may select different Entuity remote servers and perform the same functionality, e.g., viewing, adding, and editing networks and DHCP servers.

IP Address Management (IPAM)



Events and Incidents

CONFLICTS

Entuity checks for conflicts every time a network scope is added or modified and whenever a DHCP server is scanned. If a network has an IP range that is not present on its DHCP server, the 'Does not match any DHCP scope' conflict will be raised and displayed in the IPAM network table. To resolve this conflict, you can modify or delete the conflicting network or add the scope to the DHCP server (on the server side).

Issues and conflicts in IP Address Management can raise the following incidents and events:

IPAM IP USAGE OVER THRESHOLD INCIDENT:

- IPAM IP Usage Over Threshold - a network has a percentage of active IP addresses that exceed the network's Usage High value, or the global setting's Usage High value.
- IPAM IP Usage OK - a network has a % of active IP addresses that is now equal or below the network's Usage High value, or the global setting's Usage High value.

IPAM CONFLICT FOUND INCIDENT:

- IPAM Conflict Found - a network has a conflict.
- IPAM Conflict Resolved - a network's conflict was resolved

IPAM Dashboards

IP Address	Hostname	Comments	Active	Last Scanned	Last Active	History
10.0.0.1	server1		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.2	server2		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.3	server3		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.4	server4		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.5	server5		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.6	server6		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.7	server7		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.8	server8		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.9	server9		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.10	server10		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.11	server11		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.12	server12		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.13	server13		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.14	server14		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.15	server15		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.16	server16		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.17	server17		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.18	server18		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.19	server19		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.20	server20		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.21	server21		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.22	server22		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.23	server23		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.24	server24		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.25	server25		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.26	server26		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.27	server27		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.28	server28		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.29	server29		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.30	server30		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.31	server31		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.32	server32		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.33	server33		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.34	server34		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.35	server35		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.36	server36		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.37	server37		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.38	server38		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.39	server39		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.40	server40		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.41	server41		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.42	server42		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.43	server43		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.44	server44		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.45	server45		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.46	server46		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.47	server47		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.48	server48		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.49	server49		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.50	server50		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.51	server51		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.52	server52		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.53	server53		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.54	server54		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.55	server55		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.56	server56		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.57	server57		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.58	server58		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.59	server59		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.60	server60		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.61	server61		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.62	server62		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.63	server63		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.64	server64		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.65	server65		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.66	server66		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.67	server67		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.68	server68		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.69	server69		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.70	server70		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.71	server71		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.72	server72		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.73	server73		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.74	server74		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.75	server75		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.76	server76		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.77	server77		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.78	server78		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.79	server79		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.80	server80		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.81	server81		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.82	server82		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.83	server83		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.84	server84		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.85	server85		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.86	server86		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.87	server87		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.88	server88		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.89	server89		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.90	server90		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.91	server91		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.92	server92		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.93	server93		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.94	server94		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.95	server95		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.96	server96		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.97	server97		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.98	server98		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.99	server99		No	10/16/19 10:00:00	10/16/19 10:00:00	
10.0.0.100	server100		No	10/16/19 10:00:00	10/16/19 10:00:00	

ENTUITY

IP ADDRESS MANAGEMENT

Networks24x7 Streams

IP Address Management

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About Entuity:

Designed for today's multi-vendor networks, Entuity Software™ enables NetOps teams to more efficiently and effectively monitor, visualise, and manage their networks.

- Significantly reduces alert noise so you can focus on what is important.
- Resolves issues quickly and gets to the root cause using real-time analytics.
- Delivers proactive management with predictive trends.
- Supports a multi-cloud strategy. Entuity is easy to install, customise, operate, and maintain and lowers total cost of ownership to a fraction of other products.