





Webinar

Zabbix Proxy high availability and load balancing

all our microphones are muted ask your questions in Q&A, not in the Chat use Chat for discussion, networking or applause

Zabbix 7.0

- Proxy High Availability
- Proxy Memory Buffer
- Override timeouts on a per-proxy level



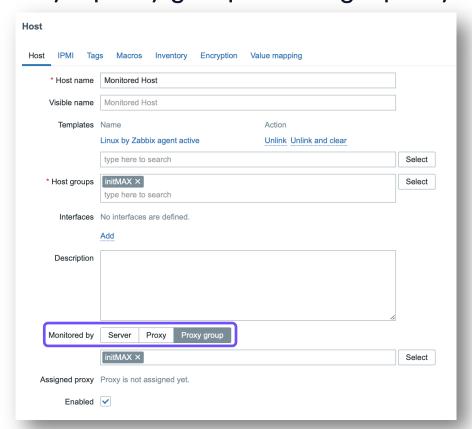


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Proxy high availability and load balancing



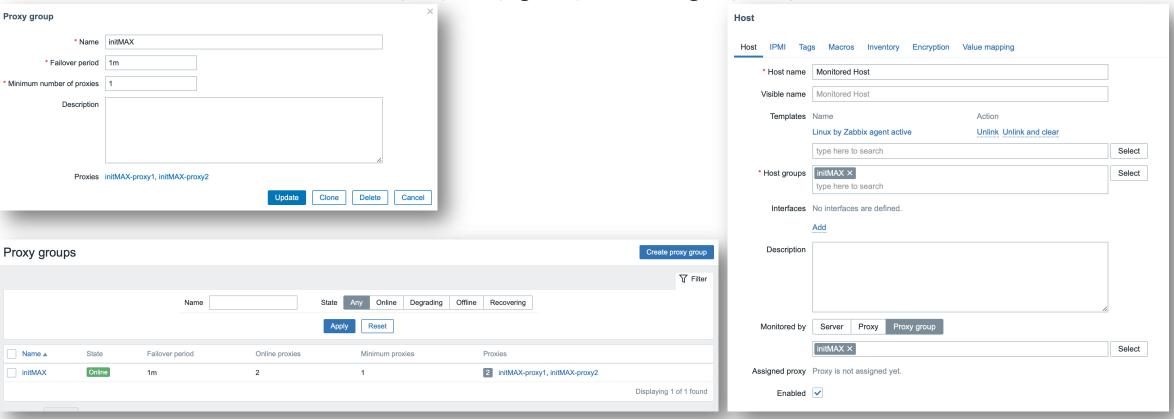
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 - Hosts can be monitored by a proxy group or a single proxy







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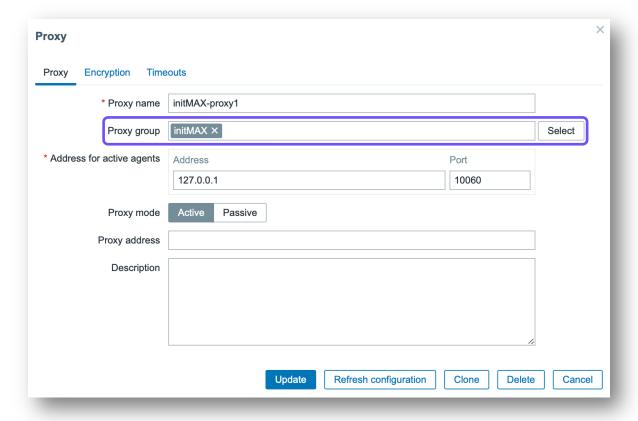


- More about proxy groups:
 - > Failover period is used to decide when a proxy is online/offline
 - A minimal number of online proxies can be configured for a proxy group to be online
 - Proxies of older versions (and hosts assigned to them) will be excluded from host rebalancing
 - If a proxy group is offline (less than minimum number of proxies online), hosts assigned to that group will stop being monitored



Proxy groups

Proxies are assigned to proxy groups using the proxy configuration form:



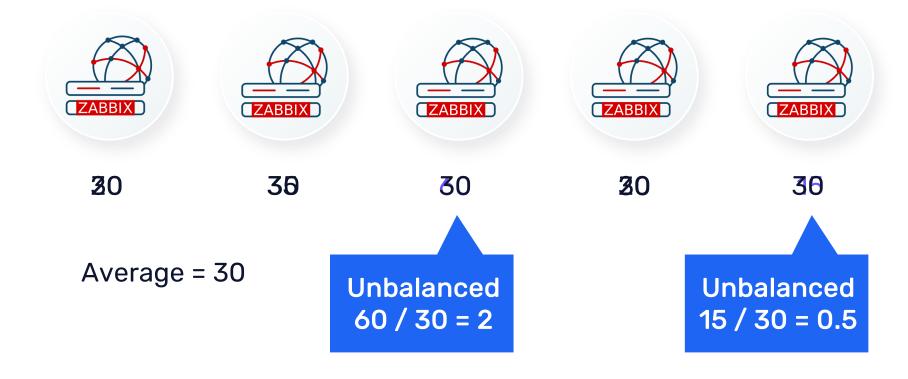


- Hosts are rebalanced if the following conditions are met:
 - > The number of hosts assigned to a proxy differs from the average by twice or more
 - Difference is not less than 10 hosts
 - Hosts exceeding the average are unassigned from proxies
 - > The unassigned hosts are then assigned to proxies with fewer hosts



Proxy groups

Proxy rebalancing example:





- When a new proxy is added, the group is automatically rebalanced
 - New average is calculated
 - Excess hosts are unassigned
 - Unassigned hosts are reassigned between proxies



Zabbix Agent

- Agents need to be configured to accept connections from proxies in a proxy group:
 - For active agent mode, ServerActive needs to contain the IP of at least one (preferably multiple) proxy node groups
 - For passive agent mode, Server parameter needs to include IP addresses of all proxy nodes in a proxy group

zabbix proxy.log

2594:20240620:082058.199 cannot send list of active checks to "initMaxProxy01": host "initMAX_srv" is monitored by another proxy



Proxy memory buffer





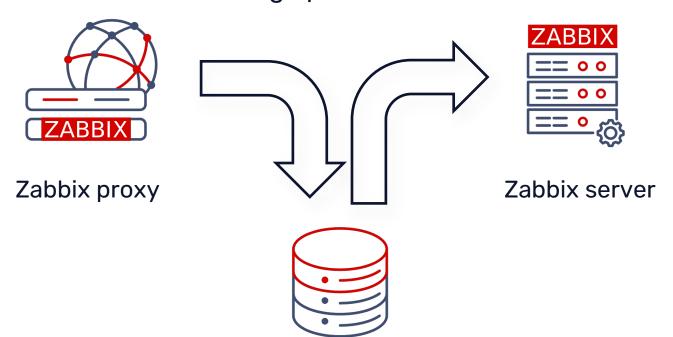
New proxy buffer modes

- Zabbix 7.0 will introduce new proxy buffer modes:
 - Disk Current behavior
 - Memory
 Data stored only in shared memory
 - > Hybrid Buffer works in memory mode with DB as backup (Default now)



Disk mode

- ▶ Each value collected by Zabbix proxy goes through a database:
 - Database (MySQL, Postgres, or SQLITE) required on each proxy
 - This may cause a bottleneck on large proxies





Memory mode

- Data is sent to Zabbix server directly:
 - The history data is being stored in shared memory and uploaded from it
 - If buffer runs out of memory the old data will be discarded

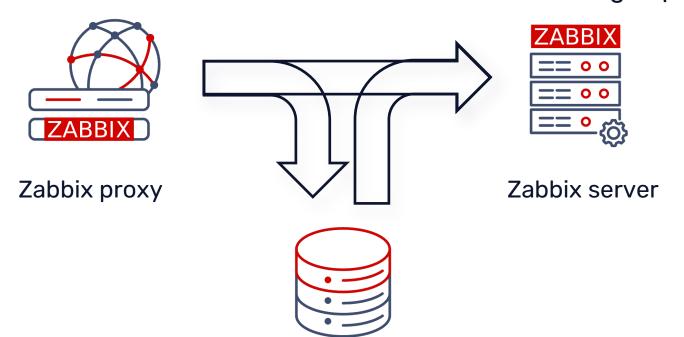






Hybrid mode

- Data is sent to the Zabbix server directly:
 - Buffer normally works like in the memory mode
 - > The buffer is flushed in database if buffer does not have enough space





Demo



Questions?



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