

Release Notes

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Introduction

Juniper Address Pool Manager (APM), formerly known as IP PoolBot, is a cloud-native, container-based application running on a Linux cluster that manages address pools in a network. APM monitors the IPv4 address pools on broadband network gateways (BNGs) in the network. When the free address utilization drops below a specified threshold on a BNG, APM adds unused prefixes from a centralized pool to BNG's address pool.

APM supports monitoring and linking address pools for subscribers that connect via PPPoE, or PPP over L2TP network server (LNS). APM does not support subscribers that connect via IPoE using DHCP Server or DHCP Relay.

The benefits of APM are as follows:

- Improves the efficiency of address utilization
- Reduces the overhead and complexity of monitoring and provisioning by automating monitoring and provisioning.
- Allows reclamation of underutilized prefixes for redistribution to the pools that need them.

These release notes accompany APM Release 3.0.0.

Installation

APM 3.0.0 installation requires the following minimum system requirements:

- **Primary Node**
- RAM: 30 GB
- Disk space: 100 GB in root partition
- CPU cores: 4; hyperthreading preferred

Worker Nodes—APM requires a minimum of three worker nodes. Each worker node should meet the following requirements:

- RAM: 62 GB
- Disk space: 64 GB in root partition
- CPU cores: 7; hyperthreading preferred

Software

- Ubuntu version 18.04 LTS

For information on how to install APM, see [APM Installation Guide](#).

New and Changed Features

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Address Pool Manager 3.0.0 is the first release.

Known Issues

This section lists the known issues in Juniper APM 3.0.0.

- Install discard routes is not supported on APM managed BNGs running Junos OS Release 21.3R1. [PR1604967](#)
- BNG does not send an abatement alarm. [PR1626632](#)
- BNG does not resend the pool-drained alarm when the connection between BNG and APM is reestablished. [PR1627974](#)
- The output for show network-access address-assignment address-pool-manager status is inaccurate. [PR1635163](#)
- Permanent failure in the worker node prevents automatic pod recovery. [PR1636549](#)

Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active Juniper Care or Partner Support Services support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the JTAC User Guide located at <https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <https://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <https://www.juniper.net/customers/support/>
- Search for known bugs: <https://prsearch.juniper.net/>
- Find product documentation: <https://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <https://supportportal.juniper.net/s/knowledge>
- Download the latest versions of software and review release notes: <https://www.juniper.net/customers/csc/software/>

- Search technical bulletins for relevant hardware and software notifications: <https://supportportal.juniper.net/s/knowledge>
- Join and participate in the Juniper Networks Community Forum: <https://www.juniper.net/company/communities/>
- Create a service request online: <https://supportportal.juniper.net/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://entitlementsearch.juniper.net/entitlementsearch/>

Creating a Service Request with JTAC

You can create a service request with JTAC on the Web or by telephone.

- Visit <https://support.juniper.net/support/requesting-support/>
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <https://support.juniper.net/support/requesting-support/>.

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