Netropy 5.0 Highlights

Netropy 5.0 adds exciting new features for more advanced performance testing. Check out more information on a few key features below:

- ☑ Mangle, Modification of Packet Data
- ☑ Support for AWS and AWS GovCloud
- ☑ Simultaneous IPv4 / IPv6 Testing
- ☑ Support for RDMA over Converged Ethernet

Mangle: Added Customization Capabilities

Netropy 5.0 offers flexible new options to "mangle," overwrite, and modify TCP/IP packet fields for more advanced and granular testing. Mangle enables users to alter header fields such as

- Precedence to prioritize certain traffic and test throughput
- DS and differentiated services field codepoint (DSCP) values in IPv4/IPv6 headers to set priorities and test Quality of Service (QoS)
- Explicit Congestion Notification (ECN) extension used to achieve end-to-end notification of network congestion without dropping packets
- Custom Offset Mangle to change any field in an IP packet

Virtual Testing in AWS and AWS GovCloud Environments

Netropy 5.0 introduces virtual testing for Amazon Web Services (AWS) and AWS GovCloud-hosted environments. Developers worldwide can now build and run cloud-based test environments without maintaining dedicated physical labs.

NetropyCE equips application teams to spin up cloud instances to simulate networks and measure performance in virtual AWS environments prior to release. Generating and applying real-world network conditions and impediments (loss, latency) lets developers incorporate NetropyCE into development at every stage. Users simply modify their infrastructure-as-code (IaC) tooling to add NetropyCE virtual devices and conduct global testing of cloud applications.

In addition to support for AWS, Netropy 5.0 supports AWS GovCloud in the US. GovCloud equips government customers and ecosystem partners to build secure cloud solutions that comply with FedRAMP, Department of Justice (DoJ), FIPS and a host of other compliance requirements.

Simultaneous IPv4 / IPv6 Testing

Global migration to IPv6 promises better, faster, more secure routing with stronger built-in security features. As worldwide adoption — estimated at nearly 40% today — accelerates, Netropy equips ISPs, mobile carriers, and large enterprises to simulate dual-stack scenarios and test network performance. Testing at every stage helps to quantify the impact of advanced IPv6 capabilities like anycast routing used in content delivery networks (CDNs), IPsec, encryption, and other security features on service performance.

LDAP and RADIUS

Netropy 5.0 promotes ongoing innovation to build stronger cybersecurity into new products and services. The new release simulates the LDAP protocol used to access and maintain directory data (usernames, passwords, email addresses, etc.) and Remote Authentication Dial-In User Service (RADIUS) authentication protocol that integrates with directories for authorization and accounting.

SUPPORT FOR RDMA Over Converged Ethernet (RoCE v2)

An important internet layer network protocol which allows remote direct memory access over ethernet.

Log in to the [support portal](#) or contact your sales representative to learn more about upgrading to the new release.