

## Open Networking Software is Network Freedom

Pica8 software solutions are the industry's open networking standard for enterprise networks within distributed branches, campuses, and data centers. The Pica8 Network platform is a turnkey software solution for deploying and managing switch software for white-box networking. The platform consists of three products: AmpCon™ Automation and Network Controller, PicOS™ Software Switches and PicOS-V Switching Software.

The AmpCon Automation and Network Controller is the automation command center for your enterprise and data center network. AmpCon automates the deployment, provisioning, configuration management, and lifecycle management of network devices.

PicOS Switch Software turns ordinary white box compute hardware into an enterprise networking switch, automated by AmpCon. PicOS runs on the industry's broadest choices of access and aggregation devices from FS, Dell and Edgecore. PicOS provides full support for all available capabilities including multi-gig through 400-gig+ and beyond, PoE, and EVPN-VXLAN. PicOS enables organizations to build high-powered, next-generation enterprise networks with open networking methodologies.

Also available now is PicOS-V, a free Virtual Machine (VM) from Pica8 that can help you get familiar with PicOS Software Switches. PicOS-V is used for validating the configuration of PicOS and testing L2 and L3 features at your own pace, with no direct costs associated.

### AMPCON™ AmpCon™ Automation Network Controller

The AmpCon™ Automation and Network Controller is an application developed by Pica8 to automate the deployment, provisioning, and lifecycle management of software switches. AmpCon™ can be installed on a physical server or a virtual machine in the data center or cloud. AmpCon supports remote deployment and scalability for thousands of PicOS Software Switches. It is a feature rich automation platform that can be used for managing both PicOS and PicOS-V software switches. AmpCon simplifies and automates business workflows, reducing operating expenses for networking and can be used as a push-button automation tool using a Web GUI or can be operated using REST APIs.

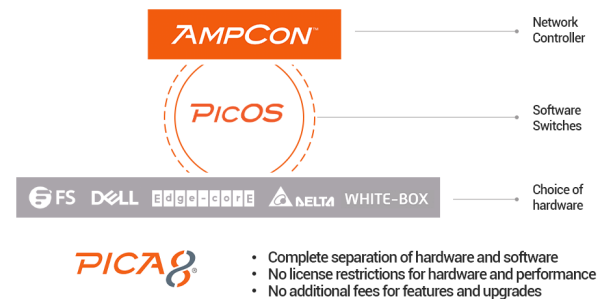
Major use cases for AmpCon include:

- **Deployment and configuration management of remote switches at scale:**
  - Automate deployment of bare-metal switches to reduce cost and complexity.
  - Zero Touch Provisioning (ZTP) functionality coupled with ONIE delivers a true white box-to-application environment
  - Configuration management of switches
  - Scheduled backup of switches configuration
- **Security and Network Compliance:** Enforce day-to-day security and network compliance policies on groups of switches with ease.
- **Scheduled Upgrades:** Leave long weeknight/weekend switch upgrades behind with automated upgrades and backups.
- **Customized Automation:** AmpCon supports Ansible Playbooks to create custom workflows.

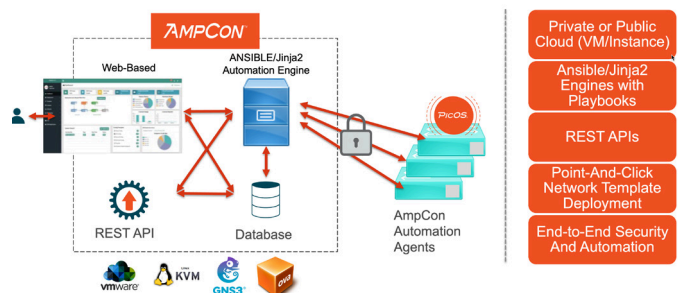
Pica8's AmpCon supplies all the necessary "magic" your team will need to automate deployment and management through its Ansible-based playbook automation, auto-generated wizard-based forms from included or customer provided Jinja-based network-design templates, and a full suite of REST APIs to automate and integrate with the rest of your automation-driven Enterprise.

Pica8's vision for the modern, next generation, automation driven Enterprise includes product-line expansion in Open Network Management, Automation, and Multi-Cloud Visibility, Optimization, and Security.

### Open Networking Software Is Networking Freedom



### AmpCon Network Controller: Open Architecture



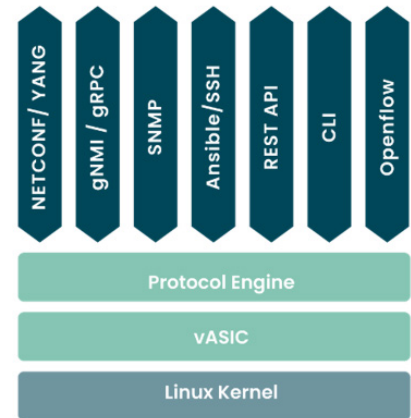
## PICOS

### PicOS™ Switching Software

PicOS is an open Network Operating System (NOS) built on industry standard Debian Linux, leveraging a vast array of open-standard Linux tools as a common management and operations framework.

Highlights:

- Full-featured enterprise routing stack with L2/L3 switching and advanced routing features.
- Network Virtualization across Campus and Data Center networks with EVPN VXLAN fabric
- SNMP, SFLOW, and gNMI/gRPC to integrate telemetry streaming for data collection and analytics.
- Complete Zero-Trust integration with Network Access Control (NAC) Policy Managers such as Cisco ISE and HPE ClearPass
- Full featured 802.1x implementation for Enterprise network access layer for IoT, authorized users and guests
- Support next generation enterprise access switches with multi-gig Ethernet and up to 100W PoE
- Support next generation aggregation and core switches with 96x25G and 64x100G ports
- Enable deployment of next generation 8x8 Wi-Fi 6E access points with high PoE power requirement
- Supports standard networking and Whitebox Switch hardware monitoring MIBS



## PICOS

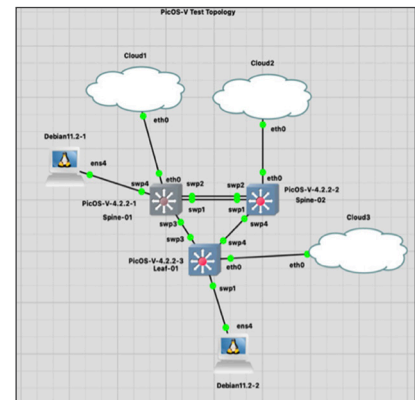
### PicOS-V Virtual Software Switch

PicOS-V runs on VMware, GNS3 and VirtualBox hypervisors, without the need for a white box switch or license. You can provision as many PicOS-V virtual software switches as needed to prototype network operation with L2 and L3 protocols in a proposed topology for example in a GNS3 environment. Unlike PicOS, PicOS-V is not meant to run on production switches or carry production data traffic. Certain features like EVPN and VXLAN, and the OpenFlow mode will be supported in the future (or in a future release)..

Benefits of PicOS-V:

- No need to wait for switching hardware
- Free, no license required
- Get familiar with PicOS Software Switches
- Validate PicOS switch configurations
- Prototype network operations before you deploy
- Test features without any risk – L2, L3 and upgrade
- Test Automation with PicOS-V
- Simulate different vendor whitebox switch hardware by simply changing hardware models and serial numbers

GNS3 Topology Example:



### Simple Licensing: All-in-One Network Automation Platform

AmpCon works with a perpetual license and support, and the license allows operating a block of PicOS Software Switches without any restrictions on features or performance – it supports deployment of PicOS on a broad choice of white box hardware, regardless of speed (1G to 100G) or interfaces (multi-gig, PoE, fiber/copper) and without any add-on licensing for specific features. AmpCon licenses can be purchased in blocks of 10, 25, 50, 100, 200, 400, or 1000 switches.

When purchasing AmpCon, there are no restrictions on the PicOS Software Switches for features or performance. PicOS can be deployed on a broad choice of white box hardware, with no restrictions on interface bandwidth.

## Learn More

**AMPCON**  
AmpCon Automation and Network Controller

**PICOS**  
PicOS Software Switch

**PICA8**  
Test the Pica8 Network Platform

**MORE INFORMATION**  
[www.pica8.com](http://www.pica8.com)