



*dnsfly* by UX WORLD

# The Next Generation of DNS.

Make management of core networks services quicker and easier while minimizing the risk of outages.

# dnsfly

*The easy DNS Solution*

## *dnsfly* Benefits

- Protects DNS and DHCP services from security attacks
- Reduces threat of downtime of business critical services that rely on DNS and DHCP, such as email, Web sites, VoIP, and CRM
- Makes DNS/DHCP administration faster and simpler to manage
- Solves Amazon Web Services (AWS) IP permanence issue
- Available for multiple virtualization platforms, including CA AppLogic

# Reduce Costs and Improve Uptime with *dnsfly*

Businesses rely on IP addresses for their most critical applications such as email, their Web sites, VoIP telephone service, and applications such as CRM. This adds complexity to the core of the network where IP addresses are managed by DNS/DHCP servers at the same time that these systems are experiencing increasingly frequent attacks that can bring down these applications, halting business. *dnsfly*--available as a physical or virtual appliance--is purpose-built to reduce downtime, thwart security threats, and make DNS administration simpler and faster. Easier administration means fewer mistakes and lower costs.

*dnsfly* replaces manual administration of DNS and DHCP with a graphical user interface, which allows a quick view of the system state via a dashboard, and one-click management of administrative functions. Automation ensures tasks are completed correctly and quickly. *dnsfly* is accessible from anywhere via an internet connection and its intuitive interface allows less technical staff to manage DNS and diagnose problems.

*dnsfly* uses multi-layered security to prevent downtime of critical applications and other results of nefarious attacks, such as compromised customer data. *dnsfly* is DNSSEC compliant and built with Open BSD, a security-optimized variety of Linux. It has been "stripped" closing unneeded ports and services, limiting points of attack. *dnsfly* offers role-based access, giving administrators the power to allow the right level of access without exposing the server unnecessarily. *dnsfly* comes with a set of RESTFUL APIs, making integration with your application frameworks seamless.

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## The *dnsfly* Appliance

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Source: UXWORLD  
<http://www.uxworld.com>

# *dnsfly* Benefits

## Easier, Faster Administration

**Available for CA AppLogic** \*Exclusive: only offered by *dnsfly*

*dnsfly* is the first DNS and DHCP management software available on CA AppLogic. *dnsfly* is also available for other virtualization platforms, including VMware ESXi, Citrix Xen, and AWS.

### Fast Querying

Thanks to its ultra lean configuration and optimized software, *dnsfly* queries DNS at a rate of more than 15,000 IP addresses per second, allowing faster delivery of applications.

### BIND Views Offer More Information

BIND views, supported by *dnsfly*, allow you to see whether a query originated within your organization or externally.

### Future-ready with Support for IPv6

*dnsfly* supports IPv6 with AAAA records, which return a 128-bit IPv6 address, and are used to map hostnames to a host IP address.

### Manage DNS and DHCP in One Place

DNS and DHCP administration is brought together into one interface. This not only makes managing each core service easier, but also synchronizes address and host provisioning.

### Network Time Protocol (NTP) Server Included

NTP can be configured with *dnsfly* to provide accurate time from an authoritative source.

### Active Directory Compatible

*dnsfly* can be integrated with Microsoft's Active Directory (AD).

## More Uptime and Better Resiliency

### Solution for AWS EC2 IP Persistence Issue

 \*New

*dnsfly* offers a solution to an IP persistence problem affecting all users of Amazon Web Services (AWS) EC2. *dnsfly* automatically updates private IP addresses and names each time a server reboots, a process that would otherwise have to be done manually. Until this update is made the affected server will appear to be missing from the network, a situation that could arise weekly, daily, or multiple times per day. Automating the IP address and name updates prevents errors from being introduced by a manual process, and reduces the time required to diagnose and correct the problem manually.

### DHCP Failover

*dnsfly* supports DHCP redundancy and load-balancing. If one DHCP server fails, the other can take its place automatically.

### Virtual or Physical Appliance

*dnsfly* is available as either a physical server appliance or as a virtual machine with all the same benefits as an appliance but also the convenience and scalability of virtualization.

## Security

### DNSSEC Compliant

*dnsfly* supports DNSSEC, which uses certificates to maintain chain-of-trust. Convert non-DNSSEC forward and reverse zones to DNSSEC zones with the click of a button. Automatically resigns DNSSEC zones when records are updated.

### Open BSD Recompiled

*dnsfly* uses Open BSD, the most secure operating system available, created by experts in integrated cryptography. Further, *dnsfly*'s OS was stripped of all unnecessary ports and services before being recompiled, reducing potential points of attack.

### Firewall Included

*dnsfly* comes with a packet filter (PF) firewall, a BSD licensed stateful packet filter which is used for firewall configurations.

### DHCP MAC Filtering

MAC address filtering is an IPv4 feature that allows you to include or exclude computers based on their MAC addresses. *dnsfly* maintains a list of IP addresses and releases only those that are authorized.

### Radius Server Configurable

Remote Authentication Dial in User Service (RADIUS) is a networking protocol that users can configure for (a) authentication (b) authorization and (c) accounting to the network resources.

### Supports Transaction Signatures (TSIGs)

Secret key transaction authentication for DNS (TSIG) is a way for DNS servers to authenticate zone transfers or dynamic updates between servers.

### Masked BIND Version Number

Allows administrators or authorized users to hide the BIND version number and configure what is publicly displayed. This prevents an attacker from customizing their attack to the particular version used.

### Jailed Environment

*dnsfly* executes chroot in a “jailed” environment. A “jail” limits the ability of a process to acquire resources outside a limited area. If BIND is compromised for any reason, the damage is limited to a finite area (/chroot/named).

### Managed Patches

*dnsfly* appliances are frequently updated to address industry published vulnerabilities and product enhancements, or customized configuration releases.

SPECIFICATIONS	HARDWARE APPLIANCE	VIRTUAL APPLIANCE
<b>Processor</b>	Intel Xeon Quad-Core@3.1 GHz	Minimum single vCPU
<b>Memory</b>	4 or 8 GB	Minimum 512 MB
<b>Storage</b>	40 GB SSD (Intel)	Minimum 6 GB
<b>Network</b>	3 x 10/100 1000 Mbps	Minimum one virtual NIC
<b>Console</b>	VGA or serial console	Web-based
<b>Form Factor</b>	1 U	NA
<b>Power Consumption</b>	350 Watts	NA
<b>Base Operating System</b>	Open BSD	Linux
<b>Services</b>	DNS, DNSSEC, DHCP, Radius	DNS, DNSSEC, DHCP, Radius, AWS extension
<b>Management</b>	Web GUI (https with Firefox or Chrome)	Web GUI (https with Firefox or Chrome)
<b>Supported Virtualization Platforms</b>	NA	VMware ESXi, Citrix Xen, Amazon AWS, CA AppLogic
<b>Throughput</b>	>15K DNS queries per second	NA (varies based on allocated resources)
<b>API (integration with customer portals)</b>	Yes	Yes

Note: Specifications subject to change without notice.

## To Learn More

Contact us today for more information and a product demo. Visit <http://www.uxworld.com>. Email [info@uxworld.com](mailto:info@uxworld.com) or call 914-375-6167.