Astrum
Labs

Managed DNS
Service Definition

Managed Domain Name System (DNS)

Understanding DNS

The Domain Name System (DNS) was first envisioned to allow the use of human readable names on the internet in place of hard to remember computer numbers. It has since evolved into a generalized directory of public information that controls all aspects of the internet.

As the internet has become more important numerous additional features have been added to DNS. Malicious actors naturally turned to DNS and attacks have become more advanced and more prevalent. All the while the complexity of maintaining and securing your domain has increased exponentially.

What Astrum Labs Offers

We at Astrum Labs recognize that your business relies on DNS for all of its online operations; from hosting your public facing website, to ensuring your important emails are delivered.

As such we provide:

► **DNS Zone Hosting**
DNS is designed as a distributed system. This allows us to host the records you entrust to us on multiple geographically separated servers that improve uptime, performance, and resilience against attack. We always follow best practice doctrine and have 100% service uptime since our inception.

► **Support for All DNS Records**
DNS has evolved. It now hosts a variety of information types. In addition to the original A and MX resource records, we support all DNS record types including TXT, AAAA, CNAME, DNSKEY, and CAA. This allows support for IPv6, and security through DNSSEC and Certificate Authority Authorization.

► **Expert Level Support**
With great flexibility comes great complexity. The hardest part of maintaining a resource as important as DNS is knowing how. We employ DNS experts that have years of experience operating some of the most complex DNS configurations to make sure that your domain is properly maintained, and still flexible enough to keep up with you and your changing needs.

► **Operational and Security Guidance**
Infrastructure quality and security start with DNS. We offer guidance to ensure that this cornerstone provides a solid and secure foundation on which to build your network.

Holding Domains

Threat Landscape

The internet is no longer just the home of academics and engineers where the worst threats were harmles pranks. Today's internet is full of cutthroat businessmen with questionable moral tactics and advanced persistent threats that employ complex schemes utilizing domains similar to yours that can harm your business.

To combat this threat it is common practice to register domains that are exceptionally similar to your primary domains and hold them to prevent their misuse. These domains are not used in the normal flow of business, and require far less, but not zero, effort to maintain.

What Astrum Labs Offers

We at Astrum Labs want you to remain secure while avoiding all the headache of maintaining these domains separately from your primary, business critical domains.

As such we provide:

► **Holding Domain Zone Hosting**
DNS Holding Domains are not simply left unused. They can be set up to redirect traffic to your primary domains, allowing you the security of knowing they are not being misused, with the added benefit of driving traffic to your actual website.

► **Security**
Unused and unsecured domains run the risk of being used as the source of spoofed phishing email directed at your clients, or manipulated with man-in-the middle attacks to inject malware, or various other attacks. Holding domains can be secured with proper SPF DMARC, and CAA records and signed with DNSSEC to prevent spoofing and manipulation.

► **Expert Level Support, Lower Costs**
As with our fully managed domains, you get the same expert level of support, but with the decreased complexity and limited changes that are inherent in holding domains we are able to offer that support at a lower cost.

► **Performance and Resiliency**
Holding domains take advantage of the same infrastructure that powers our fully managed domains. This means they gain all the advantages of a fully redundant, geographically disperse, heterogeneous network that will ensure that your domain is always available and always quick to respond, improving access to all of your named resources.