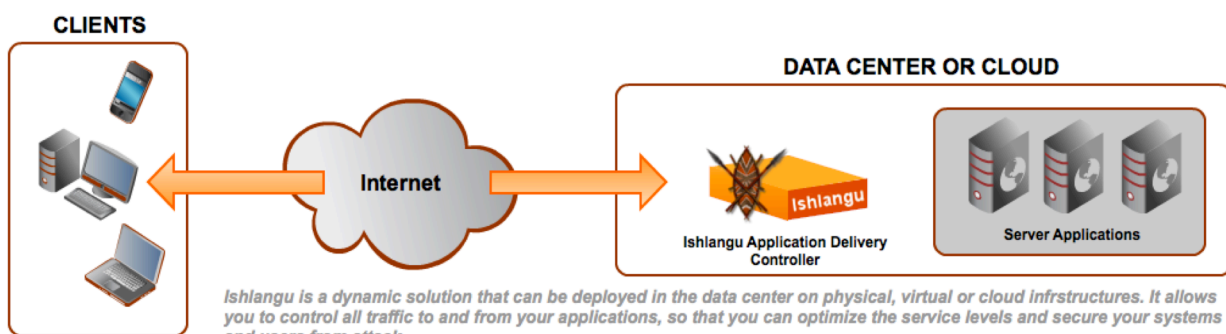## Overview

Online applications are expected by business and end-users to deliver excellent levels of service despite today's increased traffic levels, complex deployment environments and rapid changes. Shaka Technologies' Ishlangu Application Delivery Controller provides complete control over application traffic, allowing administrators to accelerate, optimize and secure critical business applications. With Ishlangu in place, these services will be delivered quicker and more secure, ensuring the best possible performance across any user platform.

Ishlangu Application Delivery Controller

Accelerate and fortify your applications

Application delivery controllers (ADCs) are a key component of business-critical applications. This is because ADCs can increase and accelerate application transactions, maximize service availability and provide a central point to manage and monitor application traffic. Ishlangu is a software-based ADC that provides unprecedented performance, security and scalability for your applications. Ishlangu's deployment options give you the flexibility, to deploy in your existing infrastructure with a full set of features, whether it be the cloud, virtual environment or bare-metal server infrastructure.

Ishlangu is a dynamic solution that can be deployed in the data center on physical, virtual or cloud infrstructures. It allows you to control all traffic to and from your applications, so that you can optimize the service levels and secure your systems and users from attack.

APPLICATION SPEED

Accelerate online services, reduce costs and increase capacity. Ishlangu allows you to offload performance draining tasks such as SSL and compression onto Ishlangu's optimized engine. Cache commonly requested content and optimize traffic delivery of your applications so that they run faster. Minimize latency with the new SPDY application-layer protocol.

IMPROVED SECURITY

Ishlangu operates as a deny-all gateway, only admitting traffic it has been configured to allow through. Ishlangu's Application Firewall fortifies your applications against a broad range of application attacks.

RELIABILITY

Dramatically improve application availability by distributing application traffic intelligently, avoiding failed or degraded servers, monitoring server problems and shaping traffic surges.

Highest Performance

Ishlangu runs on a wide range of hardware and virutal platforms, scaling to efficiently use all the available system resources, and deliver online applications with the highest possible performance. Horizontally scalable, Ishlangu clustering both ensures your application availability and capcity.

Deployment Options

Ishlangu can be deployed:

- As software on bare-metal servers
- As a virtual appliance on VMWare, Xen, Hyper-V and OracleVM
- In any supported cloud infrastructure

How Ishlangu Works

Ishlangu analyzes and processes application traffic, using full payload inspection with its Application Firewall. Core Load Balancing, SSL Offloading, Connection Multiplexing and Session Persistence technologies, enable administrators to rapidly scale applications for improved capacity and availability. Advanced traffic optimization technology further enhances performance and the end-user's experience. Full control of how application traffic is optimized, routed and transformed is provided by the powerful uControl Script™ language.

uControl Script™ also addresses a wide range of application performance, security and functionality concerns.
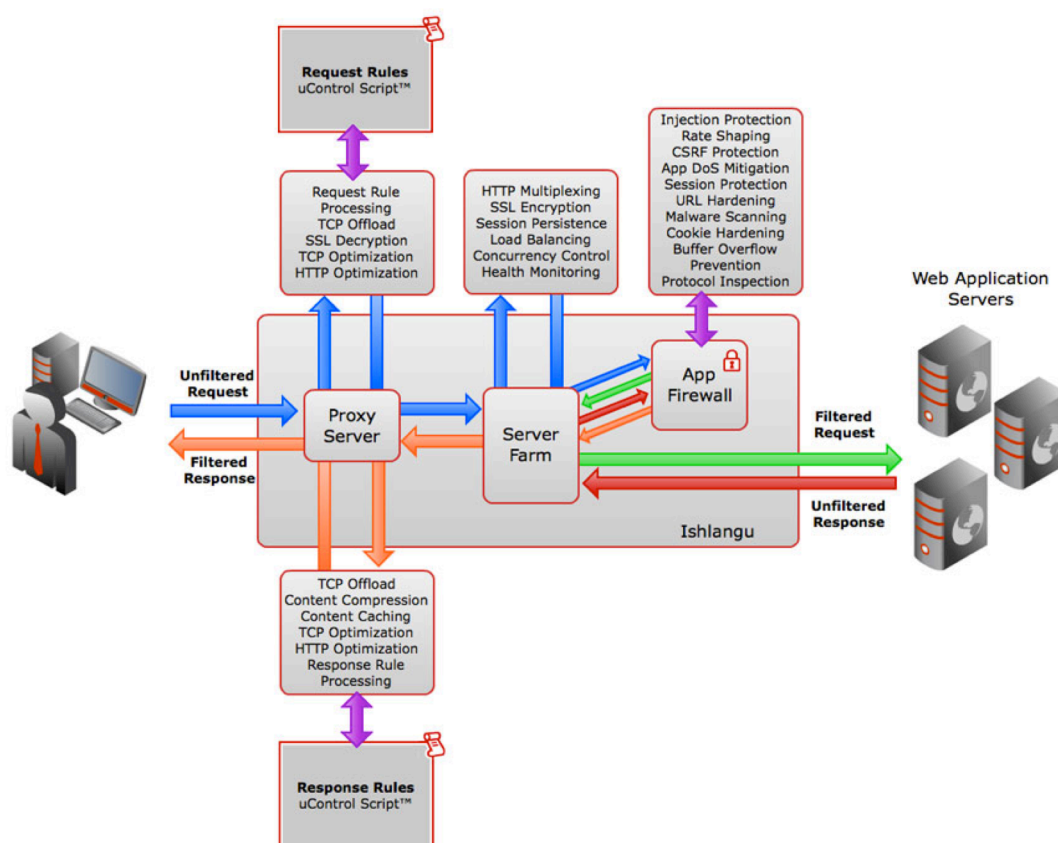
Optimize Service Level Performance

Ishlangu reduces the load placed on your application infrastructure with network-level buffering, protocol optimizations and application-specific technologies such as dynamic compression and caching.

Ishlangu has native support for SPDY application-layer protocol. SPDY is an emerging web protocol developed by Google that augments HTTP. It can improve application performance up to 50% by enabling compression, multiple data transfers per connection, and client prioritization for enabled browsers like Chrome and Firefox. Ishlangu is one of the few ADCs in the market to natively support this protocol.

Ishlangu Application Firewall

A strong security layer is a necessary component for any web application that handles sensitive information. No matter how carefully developed and audited, it is very hard to be fully confident that no vulnerabilities exist in the application and the framework that supports it. Ishlangu Application Firewall adds an additional layer of security, fortifying your applications from attacks. Now you can protect against known and unknown attacks at the application layer (such as OWASP Top10), secure your application and meet compliance requirements with confidence.
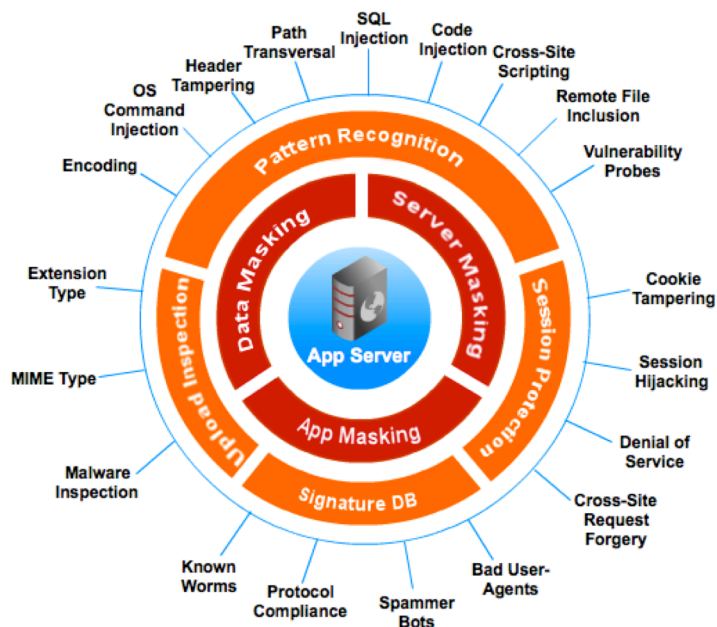
Proactive Security and Compliance

Ishlangu Application Firewall surrounds the application with a fortified security perimeter. It establishes a secure session identifier, proactively secures cookies, URLs, Form Fields and thoroughly inspects all data sent and received by the application; ensuring users do not exploit the stateless nature of HTTP transactions. PCI DSS is a key standard with which organizations accepting credit card details must comply. Ishlangu Application Firewall helps meet the requirements of PCI DSS.

Defend Against Common Attacks

Many hackers seek to discover common weak points in online applications. Such discoveries can lead an attacker to use a library of common attacks, such as SQL injection, cross-site scripting or session hijacking attacks. Ishlangu Application Firewall uses a hybrid security model which comprises of a comprehensive set of attack signatures and identification tools to detect and block these malicious requests.

About Shaka Technologies

Shaka Technologies delivers world-class Application Delivery, Security and Performance for top global websites, enterprises and service providers.

SHAKA
TECHNOLOGIES