



Content Distribution Network with Web Application Firewall

Sprint #2

(CDN with WAF)

Team Member:

Anand Sanmukhani

Berk Gur

Hao "Edward" Xu

Samit "Jade" Dhangwattantotai

Xuanhao Mi

Overview

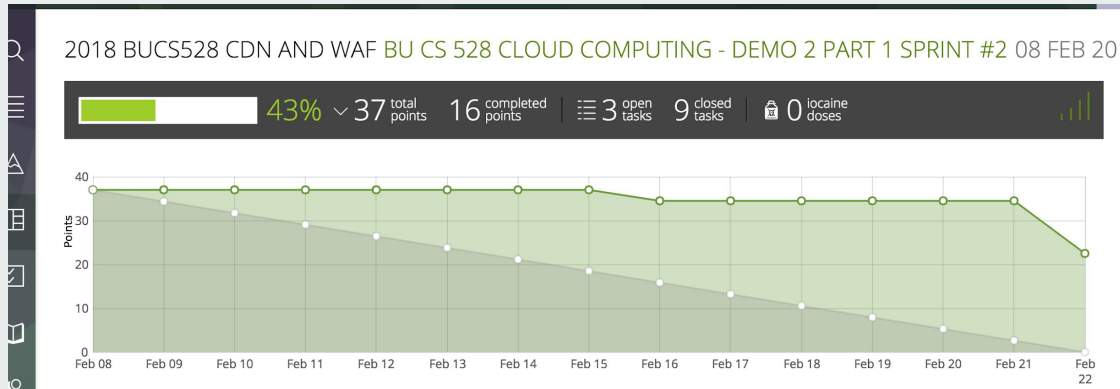
Key takeaway of our project:

- Build content distribution network which helps improve efficiency of web access by the use of cache servers.
- **CDN:** distribute service among large number of servers. reducing bandwidth costs
- **Varnish:** web application accelerator also known as a caching HTTP reverse proxy.
 - You install it in front of any server that speaks HTTP and configure it to cache the contents.
 - Important note: Cache is really, really fast. It typically speeds up delivery with a factor of 300 - 1000x

Goals: Combine the two. And make it accessible as a service for web owners.

Progress in sprint 2

1. Understand the architecture of the project, merge components and set up instances in MOC
2. Flask Server with PostgreSQL database integration
3. A Varnish Instance was tested as a caching server for a simple HTML website.





BU-Akamai CDN Customer Login

Email

Email

Password

Password

Remember me

Remember me

LOGIN

Register Now!

[Forgot password?](#)



BU-Akamai CDN SignUp Form

 Username

 Email

 Password

 Re-type password

REGISTER NOW

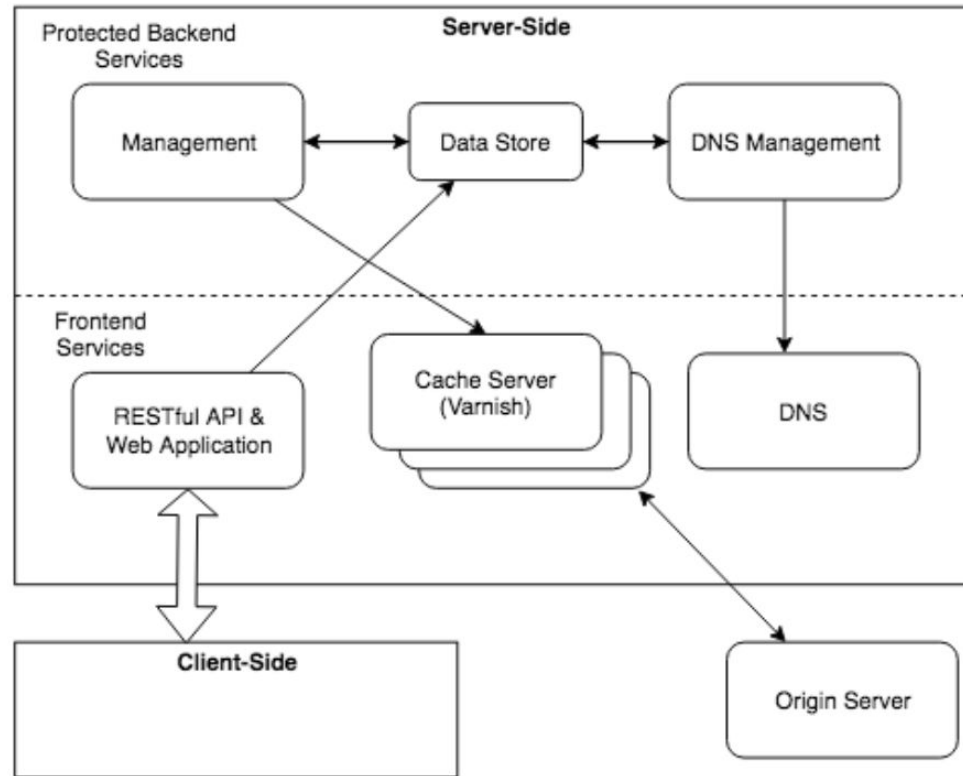
Already have an account? [Login](#)

Registered Users

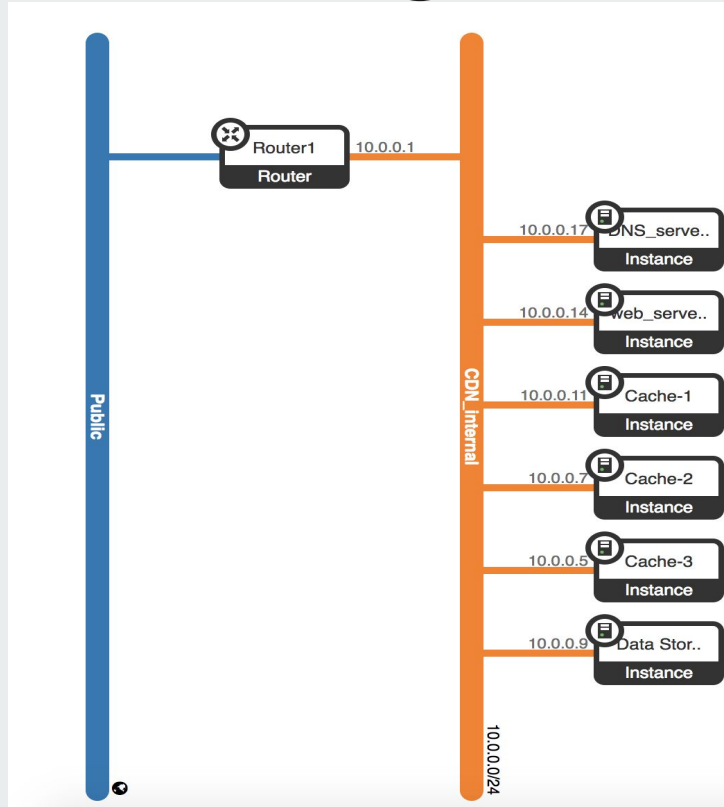
Name	Email
Jade Dhang	jadedh@bu.edu

Register!

CDN



Progress in sprint 2



1 DNS server

1 web server

3 varnish cache

1 Datastore contains: management, data store
and DNS management



Future Plan

Demonstrate Web user interface to display back-end modules and processes.

- Basic user management functions without infrastructure (Deliverable 1) (already done)
- Data Store Server (Deliverable 2)
- Management and DNS Management Server (Deliverable 2)

Demonstrate client-side usage with Cache access.

- Without load balancing (Deliverable 3)
- With load balancing but without security layers (Deliverable 4)
- With security layers (Deliverable 5)



Thank you, Questions?