Cloud Computing and Virtualization

Practical Lab 5 – Service Discovery

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Practical Lab 5

- Tasks for this week
    1. Consul – Getting Started
        1. Create a multi-machine vagrant environment (lb01, web01 and web02)
        2. Start by following the [Consul – Getting Started](#) guide to get a brief introduction
            - Use one of the VMs to experiment
    2. Consul + Consul Template + NGINX Load Balancer + 2 NGINX HTTP servers
        1. Using the previous multi-machine scenario, configure a Consul cluster (lb01 + web01 + web02)
        2. Setup NGINX in each node and the required health checks
        3. Use Consul template to dynamically generate the LB config as the cluster changes
            - Hint: https://learn.hashicorp.com/consul/integrations/nginx-consul-template
        4. Use Consul K/V store to centrally store the weight configuration of each web node