Schedule and outline

Assignment due dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assignment (due Sun 11:55pm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TCP/HTTP/Apache Intro</td>
<td>Web Stats</td>
</tr>
<tr>
<td>2</td>
<td>Benchmarking/Name-Based virtual</td>
<td>Apache and PHP</td>
</tr>
<tr>
<td>3</td>
<td><strong>Labor Day Monday</strong> IP-Based virtual hosts/Mass hosting/configuration options</td>
<td>Virtual Host Have nameservers ready</td>
</tr>
<tr>
<td>4</td>
<td>Quotas/.htaccess /Authentication</td>
<td></td>
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<tr>
<td>5</td>
<td>Mod-rewrite</td>
<td>Test 1?</td>
</tr>
<tr>
<td>6</td>
<td>Web-crawling/IIS-1</td>
<td>regular expressions</td>
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<tr>
<td>7</td>
<td>IIS-2</td>
<td>mod_rewrite</td>
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<tr>
<td>8</td>
<td>Other web/nginx/compression Fall Break Friday</td>
<td>IIS Business config</td>
</tr>
<tr>
<td>9</td>
<td>SSL</td>
<td>Nginx</td>
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<tr>
<td>10</td>
<td>SSL</td>
<td>SSL</td>
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<tr>
<td>11</td>
<td>Squid/Dansguardian/mod-proxy and load balancing,F5</td>
<td>Test 2 is before we start talking about proxies</td>
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<tr>
<td>12</td>
<td>MySQL-replication,backup</td>
<td>Filtering</td>
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<tr>
<td>13</td>
<td>MySQL - cluster</td>
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<td>14</td>
<td>icecast/streaming media/</td>
<td>Thanksgiving</td>
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<tr>
<td>15</td>
<td>Web storage/ amazon buckets, paas</td>
<td>MySQL</td>
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<td>16</td>
<td>Review</td>
<td>Test 3, Final Project</td>
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</table>

Final project presentations will be given on during the last week of class.

Weekly Readings

A reading designated as reference only ® is not required to be read but can be a valuable resource for troubleshooting or review

**Week 1**

- [HTTP RFC](#) - reference only ®
- [TCP Link](#) - ®
- [HTTP Review](#)
- [HTTP Status codes](#) - Know the general areas.
- [HTTP Specs](#) - ®
- [Apache platform](#) - all 8 pages
- [Apache core](#) - ®
- [Slides 1](#)

**Week 2**

- [Threads vs. Processes](#) - to help understand Apache prefork vs. MPM
- [Simple guide to web server analysis](#) - webalizer
- [Name based host](#)
- [IP based hosts](#)
- [Network config on xenial](#)

**Week 3**

- [Virtual Host Matching](#)
- [Virtual Host Sections](#)
Week 4

- **Quota how-to**
- **Authentication** (11 pages)
- **Apache Auth Documentation** - ®

Week 5

- **Mod rewrite-1**
- **Mod alias**
- **My rewrite examples**
- **Regular Expression Tutorial**
- **Regular Expression Builder**

Week 6

- **Wikipedia overview of web-crawling**
- **Googlebot**
- **Robotstxt**
- **Robotstxt-Internet draft** - ®

Week 7

- **Mod deflate**
- **Other tutorial on compression** *
- **Content negotiation**

Week 8

- **NGINX**
- **nginx ssl demo**
- **SSL-1**
- **SSL-2**
- **Easy ssl how-to**
- **Slides 10**

Week 9

- **Mod proxy**
- **Mod Proxy Balancer**
- **Squid ACL Config** - ®
- **Squid how-to**

Week 10

Week 11

Week 12

- **MySQL-Backup**
- **MySQL-Availability and Scalability**
- **DRBD configuration site** - ®
- **My DRBD how-to**

Week 13

- **MySQL-Replication**
- **MySQL-Cluster**
- **Reset Root MySQL password** *

Week 14
**Week 15**

- Final Review

*provided as reference material if needed*