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></td>
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<tr>
<td>2</td>
<td>Benchmarking/Name-Based virtual</td>
<td>Web Stats</td>
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<tr>
<td>3</td>
<td><strong>Labor Day Monday</strong> IP-Based virtual hosts/Mass hosting/configuration options</td>
<td>Apache and PHP</td>
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<tr>
<td>4</td>
<td>Quotas/.htaccess /Authentication</td>
<td>Virtual Host Have nameservers ready</td>
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<tr>
<td>5</td>
<td>Mod-rewrite</td>
<td>Test 1?</td>
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<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 <strong>Fall Break Friday</strong></td>
<td>IIS Business config</td>
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<tr>
<td>9</td>
<td>SSL</td>
<td>Nginx</td>
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<tr>
<td>10</td>
<td>SSL</td>
<td></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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<td>12</td>
<td>MySQL-replication,backup</td>
<td>Filtering</td>
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<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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<tr>
<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
- Robots.txt
- Robots-txt-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