Assignment due dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assignment (due Sun 11:55pm)</th>
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<tbody>
<tr>
<td>1</td>
<td>TCP/HTTP/Apache Intro</td>
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<tr>
<td>2</td>
<td>Benchmarking/Name-Based virtual</td>
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<td>3</td>
<td><strong>Labor Day Monday</strong> IP-Based virtual hosts/Mass hosting/configuration options</td>
<td><strong>Web Stats</strong></td>
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<td>4</td>
<td>Quotas/.htaccess /Authentication</td>
<td><strong>Apache and PHP</strong></td>
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<td>5</td>
<td>Mod-rewrite</td>
<td>Test 1?</td>
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<td>6</td>
<td>Web-crawling/IIS-1</td>
<td>regular expressions</td>
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<td>7</td>
<td>IIS-2</td>
<td>mod_rewrite</td>
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<td>8</td>
<td><strong>Fall Break Friday</strong></td>
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<tr>
<td>9</td>
<td>Other web/nginx/compression</td>
<td><strong>IIS Business config</strong></td>
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<tr>
<td>10</td>
<td>SSL</td>
<td><strong>SSL</strong></td>
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<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><strong>Filtering</strong></td>
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<td>13</td>
<td>MySQL - cluster</td>
<td><strong>MySQL</strong></td>
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<td>icecast/streaming media/</td>
<td>Thanksgiving</td>
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<td>15</td>
<td>Web storage/ amazon buckets, paas</td>
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<tr>
<td>16</td>
<td>Review</td>
<td>Test 3, <strong>Final Project</strong></td>
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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
- SSL-1
- SSL-2
- Easy ssl how-to

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