| S.No | Environment | Service | Break Down | Quantity | Specification | Pricing Standard - Partial Upfront | Standard - Partial Upfront Cost per month (USD) | Standard - Partial Total per month (USD) | Pricing Standard - Full upfront | Standard - Full Cost per month (USD) | Standard - Full Total per month (USD) | Pricing Convertible - partial upfront | Convertible - Partial Cost per month (USD) | Convertible - Partial Total per month (USD) | Pricing Convertible - Full upfront | Convertible - Full Cost per month (USD) | Convertible - Full Total per month (USD) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staging | EC2 server (m5.large) | Server (Running cost) | 1 | 8GB RAM | $0.072 per hour (Discounted price) | 26.28 | | $0.070 per hour (Discounted price) | 0 | | $0.082 per hour (Discounted price) | 62.78 | | $0.081 per hour (Discounted price) | 0 | | Reserved Instances EC2 |
| | | | EBS (Storage cost) | | 8.000001 GB-Mo | $0.11 per GB-month | 0.98 | | | 0.98 | | | 0.98 | | | 0.98 | | |
| | | RDS (db.m4.large) | DB Server (Running cost) | 1 | 8GB RAM | $0.131 per hour (Discounted price) | 62.78 | | $0.128 per hour (Discounted price) | 0 | | $0.131 per hour (Discounted price) | 62.78 | | $0.128 per hour (Discounted price) | 0 | | Reserved Instances |
| | | | DB Back up storage cost | | 26.699 GB-Mo | $0.100 per additional GB-month | 2.77 | | | 2.77 | | | 2.77 | | | 2.77 | | |
| | | | DB Actual Storage cost | | 100.000 GB-Mo | $0.266 per GB-month | 12.73 | | | 12.73 | | | 12.73 | | | 12.73 | | |
| | | S3 (Ireland) | SIA - Request - Tier 1 | | 29,054 Requests | $0.01 per 1,000 PUT, COPY, POST or LIST requests | 0.29 | | | 0.29 | | | 30 | | | 30 | | Average of last 3 months |
| | | | Request - Tier 1 | | 1,898 Requests | $0.005 per 1,000 PUT, COPY, POST, or LIST requests | 0.01 | | | 0.01 | | | 0.01 | | | 0.01 | | Average of last 3 months |
| | | | Storage | | 5.206 GB-Mo | $0.023 per GB - first 50 TB / month | 0.12 | | | 0.12 | | | 0.12 | | | 0.12 | | |
| | | | Storage - SIA | | 1,201.62 GB-Mo | $0.0125 per GB-Month of storage | 15.02 | 192.97 | | | 15.02 | 108.52 | | 15.02 | 263.79 | | 15.02 | 138.23 | |
| | | S3 (N. Virginia) | Storage | | 2,413.489 GB-Mo | $0.023 per GB - first 50 TB / month | 55.51 | | | 55.51 | | | 55.51 | | | 55.51 | | |
| | | | Storage - Glacier | | 24.774 GB-Mo | $0.004 per GB / month of storage | 0.10 | | | 0.10 | | | 0.10 | | | 0.10 | | |
| | | Elastic cache (t2.micro) | | 1 | | $0.018 per hour | 13.39 | | | 18 | | | 18 | | | 18 | | |
| | | Codepipeline | | 1 | | $1 per pipeline | 1 | | | 1 | | | 1 | | | 1 | | |
| | | Cloudwatch | Metric | | 3.076 Metrics | $0.30 per metric-month for the first 10,000 metrics | 0.92 | | | 0.92 | | | 0.92 | | | 0.92 | | |
| | | | Put log events | | 0.331 GB | $0.57 per GB log data ingeste | 0.19 | | | 0.19 | | | 0.19 | | | 0.19 | | |
| | | Data Transfer | | | 28.79 GB | $0.010 per GB - regional data transfer - in/out/between EC2 AZs or using elastic IPs or ELB | 0.30 | | | 0.30 | | | 0.30 | | | 0.30 | | Average of last 3 months (except JAN) |
| | | | | | 6.462 GB | $0.090 per GB - first 10 TB / month data transfer out | 0.58 | | | 0.58 | | | 0.58 | | | 0.58 | | Average of last 3 months |
| 2 | Production | EC2 server (m5.large) | 2 - web 1 - worker 1 - wp main 1 - wp courses Server Running cost | 3 | 8GB RAM | $0.074 per hour (Discounted price) | 81.03 | | $0.072 per hour (Discounted price) | 0 | | $0.086 per hour (Discounted price) | 94.17 | | $0.083 per hour (Discounted price) | 0 | | Reserved instances |
| | | EC2 server (m5.xlarge) | 1 - Delayed job Server Running cost | 1 | 16GB RAM | $0.148 per hour (Discounted price) | 54.02 | | $0.145 per hour (Discounted price) | 0 | | $0.170 per hour (Discounted price) | 62.05 | | $0.167 per hour (Discounted price) | 0 | | Reserved instances |
| | | EBS | Server storage cost | | 168.130 GB-Mo | $0.116 per GB-month | 20 | | | 20 | | | 20 | | | 20 | | |
| | | Elastic - IP | Backup IP (Used for future purpose) | | | $0.005 per Elastic IP per hour | 3.72 | | | 3.72 | | | 3.72 | | | 3.72 | | |
| | | ELB | Load balancer running cost | 1 | | $0.0294 per hour | 21.87 | | | 24 | | | 24 | | | 24 | | |
| | | | Load balancer (Data processed) | | 182.93 GB-Mo | $0.0084 per GB Data Processed | 1.53 | | | 1.53 | | | 1.53 | | | 1.53 | | |
| | Reserved | RDS (m4.xlarge - Multi A-Z) | DB Server (Running cost) | 2 | 16GB RAM | $0.548 per hour (Discounted price) | 524.14 | | $0.537 per hour (Discounted price) | 0 | | $0.548 per hour (Discounted price) | 524.14 | | $0.537 per hour (Discounted price) | 0 | | Reserved instances |
| | On demand | RDS (m4.xlarge - Multi A-Z) | DB Server (Running cost) | 0 | 16GB RAM | $0.846 per hour | 0 | | | 0 | | | 0 | | | 0 | | On demand |
| | | RDS | DB Back up storage cost | | 472.093 GB-Mo | $0.100 per additional GB-month | 47.21 | | | 47.21 | | | 47.21 | | | 47.21 | | |
| | | | DB Actual Storage cost | | 100.000 GB-Mo | $0.266 per GB-month | 26.60 | 936.15 | | | 26.60 | 236.09 | | 26.60 | 959.45 | | 26.60 | 236.09 | |
| | | S3 (London) | Request - Tier-1 | | 60,949 Request | $0.0053 per 1,000 PUT, COPY, POST, or LIST requests | 0.32 | | | 0.32 | | | 0.32 | | | 0.32 | | Average of last 3 months |
| | | | Request - Tier - 2 | | 1,739,442 Request | $0.0042 per 10,000 GET and all other requests | 0.73 | | | 0.73 | | | 0.73 | | | 0.73 | | Average of last 3 months |
| | | | Storage | | 2,168.382 GB-Mo | $0.024 per GB - first 50 TB / month | 52.04 | | | 52.04 | | | 52.04 | | | 52.04 | | |
| | | | Storage SIA | | 0.635 GB-Mo | $0.0131 per GB-Month of storage | 0.01 | | | 0.01 | | | 0.01 | | | 0.01 | | |
| | | Elastic cache (cache.m5.large) | | 1 | 8GB RAM | $0.117 per hour (Discounted price) | 43 | | $0.115 per hour (Discounted price) | 0 | | $0.117 per hour (Discounted price) | 43 | | $0.115per hour (Discounted price) | 0 | | Reserved instances |
| | | Codepipeline | | 3 | | $1 per pipeline | 3 | | | 3 | | | 3 | | | 3 | | |
| | | Cloudwatch | Metric | | 43.130 Metrics | $0.30 per metric-month for the first 10,000 metrics | 12.94 | | | 12.94 | | | 12.94 | | | 12.94 | | |
| | | | Log Storage | | 12.901 GB-Mo | $0.0315 per GB-mo | 0.41 | | | 0.41 | | | 0.41 | | | 0.41 | | |
| | | | Put Log Events | | 6.043 GB | $0.5985 per GB log data ingested | 3.62 | | | 3.62 | | | 3.62 | | | 3.62 | | |
| | | Data Transfer | | | 519.66 GB | $0.010 per GB - regional data transfer - in/out/between EC2 AZs or using elastic IPs or ELB | 5.20 | | | 5.20 | | | 5.20 | | | 5.20 | | Average of last 3 months |
| | | | | | 386.266 GB | $0.090 per GB - first 10 TB / month data transfer out | 34.76 | | | 34.76 | | | 34.76 | | | 34.76 | | Average of last 3 months |
| | | | | | | Total cost | 1129.12 | | | Total cost | 344.61 | | Total cost | 1223.24 | | Total cost | 374.32 | |
| | | | Staging | | | Upfront - EC2 1x m5.large | 313 | | | Upfront - EC2 1x m5.large | 614 | | Upfront - EC2 1x m5.large | 360 | | Upfront - EC2 1x m5.large | 706 | |
| | | | | | | Upfront - RDS 1x m4.large | 394 | | | Upfront - RDS 1x m4.large | 1120 | | Upfront - RDS 1x m4.large | 394 | | Upfront - RDS 1x m4.large | 1120 | |
| | | | Production | | | Upfront - EC2 5x m5.large | 972 | | | Upfront - EC2 5x m5.large | 1905 | | Upfront - EC2 5x m5.large | 1119 | | Upfront - EC2 5x m5.large | 2193 | |
| | | | | | | Upfront - EC2 1x m5.xlarge | 745 | | | Upfront - EC2 1x m5.xlarge | 1271 | | Upfront - EC2 1x m5.xlarge | 745 | | Upfront - EC2 1x m5.xlarge | 1461 | |
| | | | | | | Upfront - RDS 1x m4.xlarge | 3310 | | | Upfront - RDS 1x m4.xlarge | 9408 | | Upfront - RDS 1x m4.xlarge | 3310 | | Upfront - RDS 1x m4.xlarge | 9408 | |
| | | | | | | Upfront - ElasticCache 1x cache.m5.large | 512 | | | Upfront - ElasticCache 1x cache.m5.large | 1004 | | Upfront - ElasticCache 1x cache.m5.large | 512 | | Upfront - ElasticCache 1x cache.m5.large | 1004 | |
| | | | | | | Total cost | 6246 | | | Total cost | 15322 | | Total cost | 6440 | | Total cost | 15892 | |
| | | | | | | Total Annual Cost | 19795.44 | | | Total Annual Cost | 19457.32 | | Total Annual Cost | 21118.88 | | Total Annual Cost | 20383.84 | |
| | | | | | | Savings | 14205.24 | | | Savings | 14543.36 | | Savings | 12881.8 | | Savings | 13616.84 | |

| S.No | Environment | Service | Break Down | Quantity | Specificaion | Pricing | Cost per month (USD) | Total per month (USD) | Comments |
|------|-------------|---------|------------|----------|--------------|---------|----------------------|-----------------------|----------|
| 1 | Staging | EC2 (m4.large) | Server (Running cost) | 1 | 8GB RAM, 8GB storage | $0.111 per hour | 82.58 | | |
| | | | EBS (Storage cost) | | 8.000001 GB-Mo | $0.11 per GB-month | 0.98 | | |
| | | RDS (db.m4.large) | DB Server (Running cost) | 1 | 8GB RAM, 100GB storage | $0.201 per hour | 149.85 | | |
| | | | DB Back up storage cost | | 26.699 GB-Mo | $0.100 per additional GB-month | 2.77 | | |
| | | | DB Actual Storage cost | | 100.000 GB-Mo | $0.266 per GB-month | 12.73 | | |
| | | S3 ( Ireland ) | SIA - Request Tier 1 | | 31,534 Requests | $0.01 per 1,000 PUT, COPY, POST or LIST requests | 0.31 | | Average of last 3 months |
| | | | Request - Tier 1 | | 1,844 Requests | $0.005 per 1,000 PUT, COPY, POST, or LIST requests | 0.01 | | Average of last 3 months |
| | | | Storage | | 6.676 GB-Mo | $0.023 per GB - first 50 TB / month | 0.15 | | |
| | | | Storage - SIA | | 1,231.566 GB-Mo | $0.0125 per GB-Month of storage | 15.39 | | |
| | | S3 ( N. Virginia ) | Storage | | 2,413.489 GB-Mo | $0.023 per GB - first 50 TB / month | 55.51 | 336.76 | |
| | | | Storage - Glacier | | 24.774 GB-Mo | $0.004 per GB / month of storage | 0.10 | | |
| | | Elastic cache (t2.micro) | | 1 | | $0.018 per hour | 13.39 | | |
| | | Codepipeline | | 1 | | $1 per pipeline | 1 | | |
| | | Cloudwatch | Metric | | 3.076 Metrics | $0.30 per metric-month for the first 10,000 metrics | 0.92 | | Average of last 3 months |
| | | | Put Log events | | 0.331 GB | $0.57 per GB log data ingeste | 0.19 | | |
| | | Data Transfer | | | 28.79 GB | $0.010 per GB - regional data transfer - in/out/between EC2 AZs or using elastic IPs or ELB | 0.30 | | Average of last 3 months (except JAN) |
| | | | | | 6.462 GB | $0.090 per GB - first 10 TB / month data transfer ou | 0.58 | | Average of last 3 months |
| 2 | Production | EC2 server (m4.large) | Server Running cost | 3 | 8GB RAM | 1 - WP main 1 - WP courses 1 - Worker $0.116 per hour | 259.75 | | |
| | | EC2 server (m4.xlarge) | Server Running cost | 3 | 16GB RAM | 2 - Web 1 - Delayed Job $0.0862 per hour (Discounted monthly price) | 192.40 | | Reserved instances |
| | | EBS | Server storage cost | | 168.130 GB-Mo | $0.116 per GB-month | 20 | | |
| | | ELB | Load balancer running cost | 1 | | $0.0294 per hour | 21.87 | | |
| | | | Load balancer (Data processed) | | 182.93 GB-Mo | $0.0084 per GB Data Processed | 1.54 | | Average of last 3 months |
| | | Elastic - IP | Backup IP (Used for future purpose) | | | $0.005 per Elastic IP per hour | 3.72 | | |
| | | RDS (m4.2xlarge - Multi A-Z) | DB Server (Running cost) | 1 | 32GB RAM | $1.096 per hour (Discounted price) | 534.19 | 1273.92 | Reserved instances |
| | | | DB Back up storage cost | | 472.093 GB-Mo | $0.100 per additional GB-month | 47.21 | | |
| | | | DB Actual Storage cost | | 100.000 GB-Mo | $0.266 per GB-month | 26.64 | | |
| | | S3 ( London ) | Request - Tier-1 | | 60,949 Request | $0.0053 per 1,000 PUT, COPY, POST, or LIST requests | 0.32 | | Average of last 3 months |
| | | | Request - Tier - 2 | | 1,739,442 Request | $0.0042 per 10,000 GET and all other requests | 0.73 | | Average of last 3 months |
| | | | Storage | | 2,168.382 GB-Mo | $0.024 per GB - first 50 TB / month | 52.04 | | |
| | | | Storage SIA | | 0.635 GB-Mo | $0.0131 per GB-Month of storage | 0.01 | | |
| | | Elastic cache (cache.m4.large ) | | 1 | 1 (8GB RAM) | $0.072 per hour (Discounted price) | 53.57 | | Reserved instances |
| | | Codepipeline | | 3 | | $1 per pipeline | 3 | | |
| | | Cloudwatch | Metric | | 43.130 Metrics | $0.30 per metric-month for the first 10,000 metrics | 12.94 | | |
| | | | Log Storage | | 12.901 GB-Mo | $0.0315 per GB-mo | 0.41 | | |
| | | | Put Log Events | | 6.043 GB | $0.5985 per GB log data ingested | 3.62 | | |
| | | Data Transfer | | | 519.66 GB | $0.010 per GB - regional data transfer - in/out/between EC2 AZs or using elastic IPs or ELB | 5.20 | | Average of last 3 months |
| | | | | | 386.266 GB | $0.090 per GB - first 10 TB / month data transfer out | 34.76 | | Average of last 3 months |
| | | | | | | | **Total cost** | **1610.68** | |
| | | | | | | | Upfront - EC2 3x m4.xlarge | 2,268 | |
| | | | | | | | Upfront - RDS 1x m4.2xlarge | 3,132 | |
| | | | | | | | Upfront - ElasticCache | 393 | |
| | | | | | | | **Total cost** | **5793** | |
| | | | | | | | **Total Annual cost** | **25121.16** | |
| | | | | | | | **Savings** | **8879.52** | |

Current - on demand

| S.no | Environment | Service | Quantity | Specification | Required For | Cost per month (USD) | Total per month (USD) | Comments |
|---|---|---|---|---|---|---|---|---|
| 1 | **Staging** | EC2 server (m4.large) | 1 | 8GB RAM, 8GB storage | Web | 85 | | |
| | | EBS | | | | 0.98 | | |
| | | RDS (db.m4.large) | 1 | 8GB RAM, 100GB storage | Database | 170 | | |
| | | RDS - Backup | | | | 2.77 | | |
| | | RDS - Storage | | | | 12.73 | | |
| | | S3 - SIA - Tier 1 | | | | 0.29 | | |
| | | S3 - Request - Tier 1 | | | | 0.01 | **311.38** | |
| | | S3 - Storage | | | | 0.12 | | |
| | | S3 - Storage - SIA | | | | 15.02 | | |
| | | Elastic cache (t2.micro) | 1 | | Caching | 18 | | |
| | | Codepipeline | 1 | | Pipeline | 1 | | |
| | | Cloudwatch - metric | | | | 0.87 | | |
| | | Cloudwatch - log events | | | | 0.10 | | |
| | | Data Transfer | | | | 4.49 | | |
| | | | | | | | | |
| 2 | **Production** | EC2 server (m4.large) | 3 | 8GB RAM | | 261 | | |
| | | EC2 server (m4.xlarge) | 3 | 16GB RAM | | 502 | | |
| | | EBS | | 169 GB | Storage | 20 | | |
| | | ELB | 1 | | Load balancing | 24 | | |
| | | RDS (m4.2xlarge) | 1 | 32GB RAM, 100GB storage | Database | 1,337 | | |
| | | RDS - Backup | | | | 47.21 | | |
| | | RDS - Storage | | | | 26.60 | | |
| | | S3 - Request - Tier-1 ( London ) | | | | 1.92 | | |
| | | S3 - Request - Tier - 2 (London) | | | | 0.69 | | |
| | | S3 - Storage (London) | | 1,999 GB | | 47.99 | | |
| | | S3 - Storage SIA (London) | | 0.635 GB | | 0.01 | **2522.01** | |
| | | S3 - Request - Tier - 1 (N. Virginia) | | | | 0.04 | | |
| | | S3 - Request - Tier - 2 (N. Virginia) | | | | 0.01 | | |
| | | S3 - Storage (N. Virginia) | | | | 62.80 | | |
| | | S3 - Storage - Glacier (N. Virginia) | | | | 0.10 | | |
| | | Elastic cache (cache.m4.large) | 1 | 8GB RAM | Caching | 130 | | |
| | | Codepipeline | 3 | | Pipeline | 3 | | |
| | | Cloudwatch - Metric | | | | 12.94 | | |
| | | Cloudwatch - Log Storage | | | | 0.41 | | |
| | | Cloudwatch - Log Events | | | | 3.41 | | |
| | | Data Transfer | | | | 40.88 | | |
| | | | | | | | | |
| | | | | | | **Total cost** | 2833.39 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | **Total Annual cost** | 34000.68 | |

# Reserved Instances - Production

| S.no | Service | Quantity | Specification | Required for | Standard - 1 year | | | Convertible - 1 Year | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | No - upfront (monthly) | Partial upfront (monthly) | Full upfront (Annual) | No - upfront (monthly) | Partial upfront (monthly) | Full upfront (Annual) |
| 1 | EC2 server (m5.large) | 3 | 8GB RAM | 4 - web<br>1 - worker<br>1 - WP Main<br>1 - WP courses | 170.82 | 81.03 | 1905 | 194.91 | 94.17 | 2193 |
| 2 | RDS (db.m5.xlarge) | 1 | 16GB RAM | Database | 468.66 | 262.07 | 4704 | 468.66 | 262.07 | 4704 |
| 3 | Elastic cache (m5.large) | 1 | 8GB RAM | Caching | 89.79 | 43.07 | 1004 | 89.79 | 43.07 | 1004 |
| 4 | EC2 server (m5.xlarge | 1 | 16GB RAM | 1 - Delayed job | 113.15 | 54.02 | 1271 | 130.67 | 62.05 | 1461 |
| | | | | Total cost (monthly) | 842.42 | 440.19 | | 884.03 | 461.36 | |
| | | | | | | | | | | |
| | | | | EC2 - partial upfront | | 972 | | EC2 - partial upfront | 1119 | |
| | | | | | | | | | | |
| | | | | RDS - Partial upfront | | 1655 | | RDS - Partial upfront | 1655 | |
| | | | | Elastic cache - partial upfront | | 512 | | Elastic cache - partial upfront | 512 | |
| | | | | Total Upfront cost | | 3139 | | Total Upfront cost | 3286 | |
| | | | | | | | | | | |
| | | | | Total Annual cost | 10109.04 | 8421.28 | 8884 | 10608.36 | 8822.32 | 9362 |

Datasheet

| S.no | Service | Specification | On demand cost per hour (in USD) | Standard - 1 Year no upfront / month ( USD) | Standard - 1 year Partial upfront Initial amount / Annual (USD) | Standard - 1 year partial upfront / month (USD) | Standard - 1 year Full upfront / Annual (USD | Convertible - 1 year. No upfront /month (USD) | Convertible- 1 year Partial upfront Initial amount / Annual (USD) | Convertible - 1 year partial upfront / month (USD) | Convertible - 1 year Full upfront /Annual (USD) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EC2 m5.large | 8GB RAM | 0.111 | 56.94 | 324 | 27.01 | 635 | 64.97 | 373 | 31.39 | 731 |
| 2 | EC2 m5.xlarge | 16GB RAM | 0.222 | 113.15 | 648 | 54.02 | 1271 | 130.67 | 745 | 62.05 | 1461 |
| 3 | RDS m4.xlarge | 16GB RAM | 0.846 | 468.66 | 1,655.00 | 262.07 | 4,704.00 | | | | |
| 4 | Elastic cache m5.large | 8GB RAM | 0.18 | 89.79 | 512 | 43.07 | 1004 | | | | |
| | | | | | | | | | | | |
| Staging - Ireland | | | | | | | | | | | |
| 1 | EC2.m5.large | 8GB RAM | 0.1070 | 54.75 | 313 | 26.28 | 614 | 62.78 | 360 | 29.93 | 706 |
| 2 | RDS m4.large | 8GB RAM | 0.201 | 111.69 | 394.00 | 62.78 | 1,120.00 | | | | |