

# Grid, Distributed and Cloud Computing Resources Primer 2018

By

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Grid, Distributed and Cloud Computing Resources Primer 2018 is a comprehensive listing of grid resources, distributed computing resources, cloud computing resources, clusters, and parallel computing sites on the Internet. The below list of sources is taken from my Subject Tracer™ Information Blog titled Grid Resources and is constantly updated with Subject Tracer™ bots at the following URL:

<http://www.GridResources.info/>

These resources and sources will help you to discover the many pathways available to you through the Internet to find the latest grid and distributed computing resources and sites. There you can help to discover the next prime number, discover the cure for AIDs, and more, using distributed resources on the Internet.

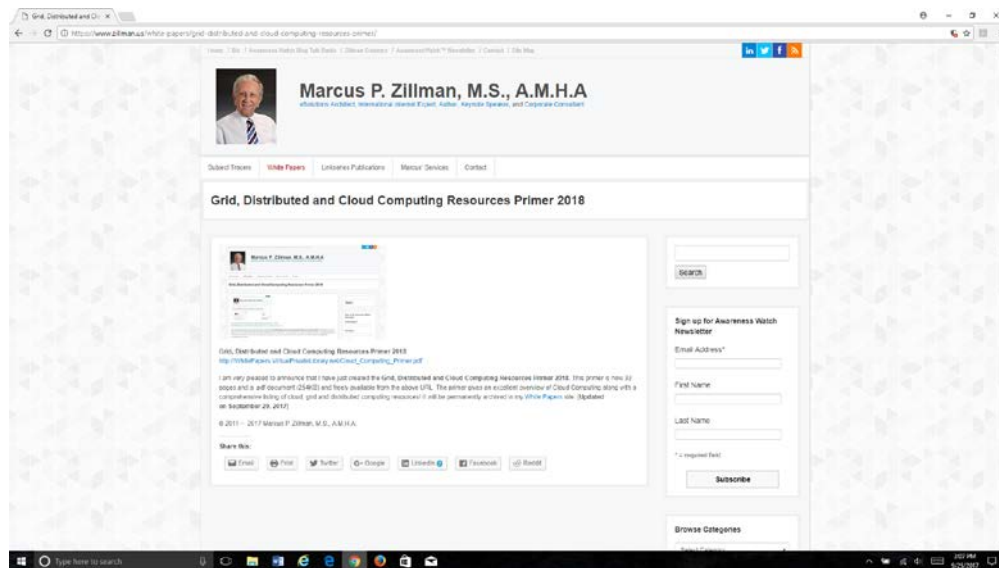


Figure 1: Grid, Distributed and Cloud Computing Resources Primer 2018

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[Updated: April 18, 2018]

**Grid, Distributed and Cloud Computing Resources Primer 2018**

<http://www.WhitePapers.us/>

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## Cloud Computing Primer

Cloud computing describes a broad movement to treat IT services as a commodity with the ability to dynamically increase or decrease capacity to match usage needs. By leveraging shared infrastructure and economies of scale, cloud computing presents a compelling business model. It allows users to control the computing services they access, while sharing the investment in the underlying IT resources among consumers. When the computing resources are provided by another organization over a wide-area network, cloud computing is similar to an electric power utility. The providers benefit from economies of scale, which in turn enables them to lower individual usage costs and centralize infrastructure costs. Users pay for what they consume. Users can also increase or decrease their usage, and leverage the shared underlying resources. With a cloud computing approach, a cloud customer can spend less time managing complex IT resources and more time investing in core mission work.

Cloud computing is defined by the National Institute of Standards and Technology (NIST) as “a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g. networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.” NIST has identified five essential characteristics of cloud computing: on-demand service, broad network access, resource pooling, rapid elasticity, and measured service.

Cloud computing has several deployment models, each of which provides distinct trade-offs which migrate applications to a cloud environment. NIST defines four cloud deployment models as follows:

**(1) Private Cloud** – The cloud infrastructure is operated solely for an organization. A private cloud may be managed by the organization or a third party and may exist on premise or off premise.

**(2) Community Cloud** – The cloud infrastructure is shared by several organizations and supports a specific community that has shared concerns (e.g., mission, security requirements, policy, and compliance considerations). A community cloud may be managed by the organizations or a third party and may exist on premise or off premise.

**(3) Public Cloud** – The cloud infrastructure is made available to the general public or a large industry group and is owned by an organization selling cloud services.



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**(4) Hybrid Cloud** – The cloud infrastructure is a composition of two or more clouds (private, community or public) that remain unique entities but are bound together by standardized or proprietary technology that enables data and application portability (e.g., cloud bursting for load-balancing between clouds).

Cloud computing can also be categorized into service models. These three models are defined by NIST to be:

**(1) Cloud Software as a Service (SaaS)** – The capability provided to the consumer is to use the provider’s applications running on a cloud infrastructure. The applications are accessible from various client devices through a thin client interface such as a web browser (e.g., web-based email). The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.

**(2) Cloud Platform as a Service (PaaS)** – The capability provided to the consumer is the ability to deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages and tools supported by the provider. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems or storage, but has control over the deployed applications and possibly application hosting environment configurations.

**(3) Cloud Infrastructure as a Service (IaaS)** – The capability provided to the consumer is processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications. The consumer does not manage or control the underlying cloud infrastructure but has control over operating systems, storage, deployed applications, and possibly limited control of select networking components (e.g., host firewalls).

Cloud computing enables IT systems to be scalable and elastic. End users do not need to determine their exact computing resource requirements upfront. Instead, they provision computing resources as required, on-demand.

Cloud-based projects can be conceived, developed, and tested with smaller initial investments than traditional IT investments. Rather than laboriously building data center capacity to support a new development environment, capacity can be provisioned in small increments through cloud computing technologies. After the small initial investment is made, the project can be evaluated for additional investment or



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cancellation. Projects that show promise can gain valuable insights through the evaluation process. Less promising projects can be cancelled with minimal losses. This “start small” approach collectively reduces the risk associated with new application development. Reducing the minimum required investment size will also provide a more experimental development environment in which innovation can flourish!

## **Grid, Distributed and Cloud Computing Resources 2018:**

### **Access Grid Project**

<http://www.AccessGrid.org/>

### **Adaptive Computing – Intelligent Workload Management Software for Cloud Environments**

<http://www.adaptivecomputing.com/>

### **Advanced Collaboration with the Access Grid**

<http://www.ariadne.ac.uk/issue42/daw/>

### **Amazon CloudSearch**

<http://aws.amazon.com/cloudsearch/>

### **Amazon Elastic Computer Cloud (Amazon EC2)**

<http://aws.amazon.com/ec2/>

### **Aneka: A Software Platform for .NET-based Cloud Computing**

<http://www.gridbus.org/reports/AnekaCloudPlatform2009.pdf>

### **Apache Hadoop Core - Easily Write and Run Applications That Process Vast Amounts of Data**

<http://hadoop.apache.org/>

### **Appirio Accelerating Enterprise Adoption of the Cloud**

<http://www.appirio.com>

### **Appistry-Big-data Solution for Next-gen Medicine**

<http://www.appistry.com/>



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**AppNexus**

<http://www.appnexus.com/>

**ArchiveGrid - Historical Archives from Throughout the World**

<http://beta.worldcat.org/archivegrid/>

**AWS: In Plain English**

<https://www.expeditedssl.com/aws-in-plain-english>

**AWS: Use Cases**

<https://aws.amazon.com/solutions/case-studies/>

**AWS Educate - Academic Gateway for the Next Generation of IT and Cloud Professionals**

<http://aws.amazon.com/education/awseducate/>

**Beacon Research and Development Project - Enabling Federated Cloud Networking**

<http://www.beacon-project.eu/>

**Best Cloud Backup Services 2018 by Ben Schmitt**

<https://www.cloudwards.net/award/best-online-backup-services/>

**BioGRID**

<http://www.thebiogrid.org/>

**BOINC - Open-Source Software for Volunteer Computing and Grid Computing**

<http://boinc.berkeley.edu/>

**Boomi AtomSphere(SM)**

<http://www.boomi.com/>

**Building the Info Grid**

<http://www.ariadne.ac.uk/issue45/buildinginfogrid-rpt/>

**CenterGate Research Group LLC**

<http://www.centergate.com/>

**Charity Engine - Changing the World One Bit At a Time**

<http://www.charityengine.com/>



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**CirrusGrid by CPUUsage - Distributed and Extensive Computing**  
<http://www.cpusage.com/>

**Climate Prediction – Climate Forecasting Experiment**  
<http://climateprediction.net/>

**Cloud.com - Open Source, Turnkey Infrastructure as a Cloud (IaaS) Software Platform for Everyone**  
<http://www.cloud.com/>

**Cloud and Autonomic Computing Center**  
<http://www.nsfcac.org/>

**CloudApp - Share Files Fast**  
<http://www.getcloudapp.com/>

**CloudBerry Online Backup**  
<http://www.cloudberrylab.com/amazon-s3-cloud-desktop-backup.aspx>

**CloudBroker - High Performance Computing Software as a Service**  
<http://cloudbroker.com/>

**CloudBuddy - Your Virtual Desktop**  
<http://www.mycloudbuddy.com/>

**Cloud based database development anywhere storage and anywhere access**  
<http://www.jackdb.com/>

**Cloud Commons Insight API**  
<http://www.programmableweb.com/api/cloudcommons-insight>

**Cloud Computing and Emerging IT Platforms: Vision, Hype, and Reality for Delivering Computing as the 5th Utility**  
<http://www.gridbus.org/reports/CloudITPlatforms2008.pdf>

**Cloud Computing Comparison Engine**  
<http://www.cloudorado.com/>



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### **Cloud Computing Expo**

<http://cloudcomputingexpo.com/>

### **Cloud Computing: Moving to Infrastructure as a Service (IaaS)**

<http://www.zdnet.com/topic-cloud-computing-moving-to-iaas/>

### **Cloud Computing Resource Center**

<http://www.deitel.com/ResourceCenters/Programming/CloudComputing/tabid/3057/Default.aspx>

### **Cloud Computing Resource, News and Support**

<http://www.dabcc.com/section.aspx?sectionid=12>

### **Cloud Computing - Wikipedia**

[http://en.wikipedia.org/wiki/Cloud\\_computing](http://en.wikipedia.org/wiki/Cloud_computing)

### **Cloud Contact Forms**

<http://cloudcontactforms.com/>

### **Cloud Connected Devices For Cars Mojo**

<http://www.moj.io/>

### **Cloud Engineering Is Here – Open-source Hardware Designs**

<http://upverter.com/>

### **Cloud Expo Journal**

<http://cloudcomputing.sys-con.com/>

### **CloudFlare - Website Performance and Security**

<http://www.cloudflare.com/>

### **CloudKick - Cloud Server Management**

<https://www.rackspace.com/cloudkick/>

### **CloudLab - Research On the Future of Cloud Computing**

<http://www.cloudlab.us/>

### **Cloudo - The Computer Evolved**

<http://www.cloudo.com/>

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**Clouds Lab – Cloud Computing and Distributed Systems**

<http://www.cloudbus.org/>

**cloudSME - Simulation for Manufacturing and Engineering**

<http://www.cloudsme.eu/>

**Cloud Source Repositories**

<https://cloud.google.com/tools/cloud-repositories/>

**CloudXL - An Organized List of Cloud Computing and Software As a Service Providers**

<http://www.cloudxl.com/>

**ClouT - Clout of Things for Empowering the Citizen Clout in Smart Cities**

<http://clout-project.eu/>

**Cluster Computing: The Journal of Networks, Software Tools and Applications**

<http://link.springer.com/journal/10586>

**Condor Project - High Throughput Computing**

<http://research.cs.wisc.edu/htcondor/>

**DataMiningGrid Consortium**

<http://www.datamininggrid.org/>

**DataPipe**

<https://www.rackspace.com/datapipe>

**Data Portability How to take data into and out of AWS**

<http://aws.amazon.com/importexport/>

**Deep Web Research 2018**

<http://www.DeepWebResearch.info/>

**dhtmlxGrid - Ajax-enabled DHTML Grid with Rich Javascript API**

<http://www.dhtmlx.com/docs/products/dhtmlxGrid/>



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**Digipede Technologies - Distributed Computing Solutions on Microsoft.NET Platform**

<http://www.digipede.net/>

**Distributed.net - Node Zero**

<http://www.distributed.net/>

**Distributed Computing**

<http://www.distributedcomputing.info/>

**Distributed Computing – Wikipedia**

[https://en.wikipedia.org/wiki/Distributed\\_computing](https://en.wikipedia.org/wiki/Distributed_computing)

**Distributed Generic Information Retrieval (DiGIR)**

<http://digir.sourceforge.net/>

**Distributed Search Engines**

<http://www.openp2p.com/pub/t/74>

**Draw AWS diagrams and share them and export them all online**

<https://cloudcraft.co/>

**DXC.Technology – Cloud and Platform Services**

<http://www.dxc.technology/cloud>

**Einstein@Home Distributed Computing Research Project**

<http://einstein.phys.uwm.edu/>

**eScience Lab**

<http://www.esciencelab.org.uk/>

**EuroGRID**

<http://www.eurogrid.org/>

**European Grid Infrastructure - Towards a Sustainable Infrastructure**

<http://www.egi.eu/>

**ExcelGrid**

<http://www.cloudbus.org/excelgrid/>



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**Extreme Science and Engineering Discovery Environment (XSEDE)**

<https://www.xsede.org/>

**FathomDB - Relational Database-As-A-Service On the Cloud**

<http://www.fathomdb.com/>

**FightAIDS@Home Distributed Computing Research Project**

<http://fightaidsathome.scripps.edu/>

**Flexiscale**

<http://www.flexiscale.com/>

**Folding@Home Distributed Computing**

<http://folding.stanford.edu/>

**Force.com - Cloud Computing for the Enterprise**

<http://www.Force.com/>

**FutureGrid@Chameleon - Configurable Experimental Environment for Large Scale Cloud Research**

<https://www.chameleoncloud.org/>

**Ganglia - Scalable Distributed Monitoring System for Clusters, Grids and Clouds**

<http://ganglia.info/>

**Genome@home**

<http://www.stanford.edu/group/pandegroup/genome/>

**Gladinet Cloud - Delivering Cloud Services to Your Desktop and Operating System**

<http://www.gladinet.com/>

**Glossary of cloud computing terms**

<http://www.techrepublic.com/blog/the-enterprise-cloud/mini-glossary-cloud-computing-terms-you-should-know/>

**Google App Engine - Run Your Web Apps On Google's Infrastructure**

<https://developers.google.com/appengine/?csw=1>



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**Google Apps - Software-As-a-Service for Business Email, Information Sharing and Security**

<http://www.google.com/enterprise/apps/business/>

**Grid Application and Deployment Projects**

<http://www.mcs.anl.gov/~itf/grid-projects/>

**Grid Application Development Software Project (GrADS) [Project not Active]**

<http://hipersoft.cs.rice.edu/grads/>

**Grid Computing - IEEE Distributed Systems Online [Ceased Publication; Archives Available]**

<http://www.computer.org/csdl/mags/ds/index.html>

**Grid Computing Info Centre (GRID Infoware)**

<http://www.gridcomputing.com/>

**Grid Computing Wikipedia**

[https://en.wikipedia.org/wiki/Grid\\_computing](https://en.wikipedia.org/wiki/Grid_computing)

**Grid Forum**

<http://www.gridforum.org/>

**Grid Market Directory (GMD)**

<http://www.cloudbus.org/gmd/>

**GridMiner - Intelligent Grid Solutions**

<http://www.gridminer.org/>

**Grid Performance and Information Services (GGF) [Web Archive Available]**

<http://web.archive.org/web/20110930004706/http://www-didc.lbl.gov/GridPerf/>

**GridPP - UK Distributed Computing Grid for Particle Physics**

<http://www.gridpp.ac.uk/>

**GridSim: A Grid Simulation Toolkit for Resource Modelling and Application Scheduling for Parallel and Distributed Computing**

<http://www.cloudbus.org/gridsim/>



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**GridSim Toolkit -- Resource Modeling and Scheduling Simulation**

<http://www.buyya.com/gridsim/>

**Helix Nebula - The Science Cloud**

<http://www.helix-nebula.eu/>

**How do I... : familiarize myself with cloud computing**

[https://www.youtube.com/results?search\\_query=cloud+computing+tutorials](https://www.youtube.com/results?search_query=cloud+computing+tutorials)

**How do I... : get to know what use it is for a cloud?**

<http://www.hightechdad.com/2013/03/22/15-top-cloud-computing-use-cases/>

**IBM Cloud Computing**

<http://www.ibm.com/cloud-computing/us/en/>

**iland Workforce Cloud**

<http://www.iland.com/services>

**Idera Uptime Cloud Monitor pay for only what you use (elastic pricing)**

<http://www.idera.com/infrastructure-monitoring-as-a-service>

**InfoChimps Platform - Big Data Platform in the Cloud**

<http://www.infochimps.com/>

**Institute of Parallel and Distributed Systems (IPVS)**

<http://www.ipvs.uni-stuttgart.de/>

**International Journal of Cloud Computing (IJCC)**

<http://www.inderscience.com/jhome.php?jcode=ijcc>

**International Journal of Grid and Distributed Computing (IJGDC)**

<http://www.sersc.org/journals/IJGDC/>

**Internet-based Distributed Computing Projects**

<http://distributedcomputing.info>

**JCGrid Web (Java Grid Computing)**

<http://jcgrid.sourceforge.net/>



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**Journal of Grid Computing**  
<http://link.springer.com/journal/10723>

**Know: Cloud computing fundamentals**  
<https://www.scribd.com/book/268755961/Cloud-Computing-Fundamentals>

**Know: Cloud security**  
<https://speakerdeck.com/garethr/cloud-security>

**Know: Web services, open source, clouds**  
<http://radar.oreilly.com/tag/freecloud>

**Know: What is a service level agreement**  
<http://www2.latech.edu/~box/ase/papers2011/Service%20level%20agreement%20in%20cloud%20computing.pptx>

**Lawrence Berkeley National Laboratory - Above the Clouds: A Berkeley View of Cloud Computing**  
<http://cs.lbl.gov/>

**LHC@home Distributed Computing Research Project**  
<http://lhathome.web.cern.ch/>

**Linked Data - Connect Distributed Data Across the Web**  
<http://linkeddata.org/>

**Live Hive – Channel Management and Intelligence**  
<http://livehiveapp.com/>

**Manchester HEP Grid Working Group**  
<http://www.hep.manchester.ac.uk/computing/tier2/>

**Manjrasoft - Innovative Cloud and Grid Computing Technologies**  
<http://www.manjrasoft.com/>

**Mersenne Prime Search**  
<http://www.mersenne.org/>

**Milkyway@Home - Help Discover the Structures in the Milky Way Galaxy**  
<http://milkyway.cs.rpi.edu/milkyway/>

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**Mithral - Client-Server Software Development Kit (CSSDK)**

<http://www.mithral.com/products/cs-sdk/>

**MusicGrid - A Case Study in Broadband Video Collaboration by Hassan Masum, Martin Brooks, and John Spence**

<http://firstmonday.org/ojs/index.php/fm/article/view/1238>

**MyGrid - Open Source Grid and Grid Middleware**

<http://mygrid.sourceforge.net/>

**MysterNetworks - The Evolution of Peer-to-Peer**

<http://www.mysternetworks.com/>

**Nasuni – Store and Synchronize Files Globally at Any Scale**

<http://www.nasuni.com/>

**nCrypted Cloud – Securely Collaborate with Anyone, Anywhere**

<https://www.encryptedcloud.com/>

**NetSolve GridSolve**

<http://icl.cs.utk.edu/netsolve/>

**Network World**

<http://www.networkworld.com/>

**NIST Cloud Computing Collaboration Site**

<http://collaborate.nist.gov/twiki-cloud-computing/bin/view/CloudComputing/WebHome>

**NIST Cloud Computing Definition**

<http://www.nist.gov/itl/cloud/>

**NMI-EDIT Consortium [Project no Longer Active]**

<http://www.nmi-edit.org/>

**NVIDIA Tesla Personal Supercomputer**

<http://www.nvidia.com/object/personal-supercomputing.html>

**OneHub - Flexible Cloud to Share Files, Manage Projects and Online Collaboration**

<http://onehub.com/>



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**Open Cloud Academy**  
<http://opencloudacademy.rackspace.com/>

**Open Connectivity Foundation (OCF)**  
<https://openconnectivity.org/>

**Open Data Grid**  
<http://okfn.org/>

**Open-i Project - An Open Access Biomedical Image Search Engine**  
<http://openi.nlm.nih.gov/>

**OpenNebula - The Open Source Toolkit for Cloud Computing**  
<http://www.opennebula.org/>

**OpenP2P.com**  
<http://www.openp2p.com/>

**OpenSim - Open Grid Services**  
<http://www.opensimulator.org/>

**Open Science Grid**  
<http://www.opensciencegrid.org/>

**OSCAR : Open Source Cluster Application Resources**  
<http://www.csm.ornl.gov/oscar/>

**OSv Open Source Project - One of the Best OS for Cloud Workloads**  
<http://osv.io/>

**Otixo - Manage Your Online Services in the Cloud**  
<http://www.otixo.com/>

**Parabon Computation - Internet Computing is Computing Outside the Box**  
<http://www.parabon.com/>

**Parasitic Computing**  
<http://www.nd.edu/~parasite/>



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**Paremus - Redefining Enterprise Grid**

<http://www.paremus.com/>

**PCs Do Thousands of Years of Work By Jo Twist**

<http://news.bbc.co.uk/2/hi/science/nature/4270241.stm>

**PPTs: Cloud computing what is what**

[http://www.slideshare.net/Jerooen/cloud-computing-34120407?qid=843a2a29-205c-4a96-81e9-b4d3a4773672&v=ql1&b=&from\\_search=4](http://www.slideshare.net/Jerooen/cloud-computing-34120407?qid=843a2a29-205c-4a96-81e9-b4d3a4773672&v=ql1&b=&from_search=4)

**Peer to Peer Working Group - P2P WG - Internet2**

<http://p2p.internet2.edu/>

**PlanetLab**

<http://www.planet-lab.org/>

**Public Data Sets on AWS**

<http://aws.amazon.com/publicdatasets/>

**PVM: Parallel Virtual Machine**

<http://www.csm.ornl.gov/pvm/>

**QADPZ - Quite Advanced Distributed Parallel Zystem**

<http://qadpz.sourceforge.net/>

**RackSpace Cloud - Cloud Computing, Cloud Hosting and Online Storage**

<http://www.rackspace.com/cloud/>

**RadiotherapyGrid**

<http://www.isgtw.org/feature/feature-radiotherapygrid>

**Syncano – Accelerated Software Development in the Cloud**

<https://www.syncano.io/>

**SBGrid Consortium – for Structural Biology**

<http://sbgrid.org/>

**SCI-BUS - SCientific gateway Based User Support**

<http://www.sci-bus.eu/>



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**ScienceLogic**

<https://sciencelogic.com/>

**ScienceNode**

<https://sciencenode.org/>

**SIXTRACK - Research Project Using Internet Connected Computers to Advance Accelerator Physics**

<http://lhcatome.web.cern.ch/>

**SendGrid - Making Email Delivery Easy**

<http://sendgrid.com/>

**SETI@home: Search for Extraterrestrial Intelligence**

<http://setiathome.berkeley.edu/>

**StratusLab – Open-Source IaaS Cloud Distribution**

<http://www.stratuslab.eu/>

**Swarm - A Transparently Scalable Distributed Programming Framework  
"Move the Computation Not the Data"**

<http://swarmframework.org/>

**SyncDocs - Sync Your Documents with the Google Cloud**

<http://www.syncdocs.com/>

**SZTAKI Desktop Grid**

<http://desktopgrid.hu/>

**TIBCO Cloud**

<http://www.tibco.com/products/cloud/default.jsp>

**The Beowulf Cluster Site Mailing Lists**

<http://www.beowulf.org/>

**The ChessBrain Network [Site not updated since 2006]**

<http://www.chessbrain.net/>

**The Globus Alliance**

<http://www.globus.org/>

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**Tutorial: Cloud computing**

<http://thecloudtutorial.com/>

**Tools: Cloud-based analytics tools**

<http://www.informationweek.com/cloud/software-as-a-service/10-cloud-analytics-and-bi-platforms-for-business/d/d-id/1318724>

**Tools: Cloud Based data analysis tools**

<http://datawiz.io/>

**Tools: Creating Managing Deploying Infrastructure Cloud Services**

<https://cloudstack.apache.org/>

**Tools: Cloud Management Tools**

<http://searchcloudcomputing.techtarget.com/report/Cloud-management-tools-guide-for-beginners>

**Tools: Cloud Resource Management Cloud Monitoring Solutions for AWS only**

<http://cloudcheckr.com/>

**TOP500 Supercomputer Sites**

<http://www.top500.org/>

**UNICORE Distributed Computing and Data Resources**

<http://www.unicore.eu/>

**Univa Gridengine – Where Big Compute and Big Data Meet**

<http://www.univa.com/>

**University of Florida - OCEAN Project**

<http://www.cise.ufl.edu/research/ocean/>

**UShareSoft – Manage Any App for Any Cloud**

<https://www.usharesoft.com/>

**vCloud at Carnegie Mellon**

<http://www.pdl.cmu.edu/vCloud/>

**VirtuStream – Cloud Performance Enterprise Perspective**

<https://www.virtustream.com/>



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**Wireless Grids: Squeezing a Grid Onto a Widget**

<http://www.isgtw.org/feature/feature-wireless-grids-squeezing-grid-widget>

**WLCG - Worldwide LHC Computing Grid**

<http://wlcg-public.web.cern.ch/>

**World Community Grid for Health Research**

<http://www.worldcommunitygrid.org>

**Worldwide Virtual Computer - Legion**

<http://www.cs.virginia.edu/~legion/>

**XtremWeb - Opensource Platform for Desktop Grids**

<http://www.XtremWeb.net>

**Younity - Your Personal Cloud**

<http://www.getyounity.com/>



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## **Subject Tracer™ Information Blogs**

Subject Tracer™ Information Blogs created and developed by the Virtual Private Library™ combine the best of the latest tools on the Internet. Using bots, blogs and news aggregators the Subject Tracer™ Information blogs generate RSS feeds with the latest resources to create a current information resource flow through niched subject tracers. I am proud to be the creator of the Internet's first Subject Tracer™ Information Blogs:

Virtual Private Library™

<http://www.VirtualPrivateLibrary.com/>

Accessibility Resources

<http://www.AccessibilityResources.info/>

Agriculture Resources

<http://www.AgricultureResources.info/>

Artificial Intelligence Resources

<http://www.AIResources.info/>

Astronomy Resources

<http://www.AstronomyResources.info/>

Auction Resources

<http://www.AuctionResources.info/>

Biological Informatics

<http://www.BiologicalInformatics.info/>

Biotechnology Resources

<http://www.BiotechnologyResources.info/>

Bot Research

<http://www.BotResearch.info/>

Business Intelligence Resources

<http://www.BIResources.info/>



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ChatterBots

<http://www.ChatterBots.info/>

Data Mining Resources

<http://www.DataMiningResources.info/>

Deep Web Research

<http://www.DeepWebResearch.info/>

Directory Resources

<http://www.DirectoryResources.info/>

eCommerce Resources

<http://eCommerceResources.info/>

Education and Academic Resources

<http://www.EducationResources.info/>

Elder Resources

<http://www.ElderResources.info/>

Employment Resources

<http://www.EmploymentResources.info/>

Entrepreneurial Resources

<http://www.EntrepreneurialResources.info/>

Financial Sources

<http://www.FinancialSources.info/>

Finding People

<http://www.FindingPeople.info/>

Games Resources

<http://www.GamesResources.info/>

Genealogy Resources

<http://www.GenealogyResources.info/>



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Grant Resources

<http://www.GrantResources.info/>

Green Files

<http://www.GreenFiles.info/>

Grid, Distributed and Cloud Computing Resources

<http://www.GridResources.info/>

Healthcare Resources

<http://www.HealthcareResources.info/>

Information Futures Markets

<http://www.InformationFuturesMarkets.com/>

Information Quality Resources

<http://www.InformationQualityResources.info/>

International Trade Resources

<http://www.InternationalTradeResources.info/>

Internet Alerts

<http://www.InternetAlerts.info/>

Internet Demographics

<http://www.InternetDemographics.info/>

Internet Experts

<http://www.InternetExperts.info/>

Internet Hoaxes

<http://www.InternetHoaxes.info/>

Intrapreneurial Resources

<http://www.IntrapreneurialResources.info/>

Journalism Resources

<http://www.JournalismResources.info/>



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Knowledge Discovery  
<http://www.KnowledgeDiscovery.info/>

Military Resources  
<http://www.MilitaryResources.info/>

New Economy Analytics, Resources and Alerts  
<http://www.NewEconomyAnalytics.com/>

Outsourcing/Offshoring Information and Resources  
<http://www.OutsourcingOffshore.us/>

Privacy Resources  
<http://www.PrivacyResources.info/>

Reference Resources  
<http://www.ReferenceResources.info/>

Research Resources  
<http://www.ResearchResources.info/>

RestStress™  
<http://www.RestStress.com/>

Script Resources  
<http://www.ScriptResources.info/>

ShoppingBots  
<http://www.ShoppingBots.info/>

Social Informatics  
<http://www.SocialInformatics.info/>

Statistics Resources and Big Data  
<http://www.StatisticsResources.info/>

Student Research  
<http://www.StudentResearch.info/>



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Theology Resources

<http://www.TheologyResources.info/>

Tutorial Resources

<http://www.TutorialResources.info/>

World Wide Web Reference

<http://www.WWWReference.info/>

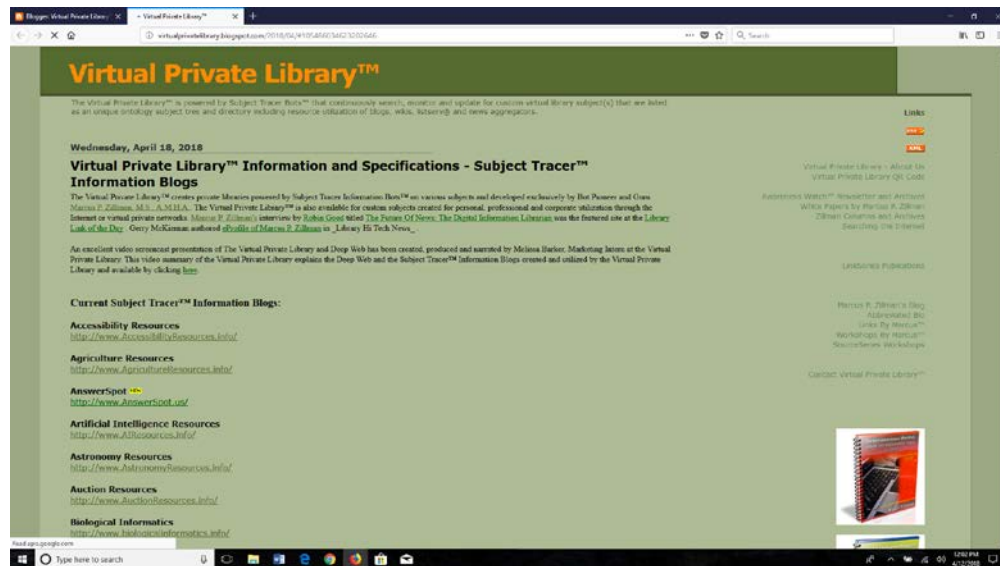


Figure 2: Virtual Private Library™

**Author Information:** Marcus P. Zillman, M.S., A.M.H.A. Executive Director of the Virtual Private Library is an international Internet expert, author, keynote speaker and corporate consultant in the area of information retrieval, knowledge discovery, knowledge harvesting, artificial intelligence and bots/intelligent agents. He has created numerous world wide web sites including 54 Subject Tracer™ Information Portals and Blogs; written a number of internet miniguides, white papers, manuals and books; hosted over 160 weekly Internet television shows, writes a weekly and monthly column on Current Awareness on the Internet; writes a monthly newsletter Awareness Watch and delivers keynote presentations throughout the international marketplace. He also actively delivers one and two day workshops for key industry sectors displaying how the Internet can be used as a tool to maintain current awareness and professional competencies.

Additional websites by Marcus P. Zillman, M.S., A.M.H.A.:

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Marcus P. Zillman's Blog (20,000+ Postings)

<http://www.zillman.us/>

Marcus P. Zillman Abbreviated Bio

<http://www.zillman.info/>

White Papers by Marcus P. Zillman

<http://www.WhitePapers.us/>

Internet MiniGuides™

<http://www.InternetMiniguide.com/>

Awareness Watch™ Newsletter

<http://www.AwarenessWatch.com/>

Marcus P. Zillman's Columns

<http://www.ZillmanColumns.com>

LinkSeries Publications

<http://www.LinkSeries.com/>

Links By Marcus™

<http://www.LinksByMarcus.com/>

Workshops By Marcus™

<http://www.WorkshopsByMarcus.com/>

SourceSeries Internet Research Workshops

<http://www.SourceSeries.com/>

Watch Marcus™

<http://www.WatchMarcus.com/>

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**Research White Papers, Articles, Lectures and Speeches by Marcus P. Zillman, M.S., A.M.H.A.:**

2018 Directory of Directories

<http://www.2018DirectoryOfDirectories.com/>

Academic and Scholar Search Engines and Sources

<http://www.ScholarSearchEngines.com/>

Bots, Blogs and News Aggregators 2018

<http://www.BotsBlogs.com/>

Business Intelligence Online Resources 2018

<http://www.BIOnlineResources.info/>

Current Awareness Discovery Tools on the Internet 2018

<http://www.zillman.us/white-papers/current-awareness-discovery-tools-on-the-internet/>

Deep Web Research and Discovery Resources 2018 Online White Paper

<http://DeepWeb.us/>

eMarketing MiniGuide 2018

<http://www.eMarketingMiniGuide.com/>

eReference Library Link Toolkit 2018

<http://www.eReferenceLibrary.com/>

Finding Experts By Using the Internet 2018

<http://www.FindingExperts.info/>

Finding People Resources and Sites 2018

<http://www.FindingPeople.info/>

Grid, Distributed and Cloud Computing Resources Primer 2018

<http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/>

Healthcare Bots and Subject Directories 2018

<http://www.HealthcareBots.info/>



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Knowledge Discovery Resources 2018

<http://www.KDResources.info/>

New Economy Resources 2018

<http://www.NewEconomyResources.com/>

Online Research Browsers 2018

<http://www.zillman.us/white-papers/online-research-browsers/>

Online Research Tools

<http://www.OnlineResearchTools.info/>

Online Social Networking 2018

<http://www.OnlineSocialNetworking.info/>

Searching the Internet 2018 – The Primer

<http://www.SearchingTheInternet.info/>

Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2018

<http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/>

Web Data Extractors 2018

<http://www.WebDataExtractors.com/>

Web Guide for the New Economy 2018

<http://www.WebGuideNewEconomy.com/>

White Papers By Marcus P. Zillman, M.S., A.M.H.A.

<http://www.WhitePapers.us/>

**Internet Tutor by Marcus P. Zillman, M.S., A.M.H.A.**

<http://www.InternetTutor.info/>

Visit this site to learn about the availability of Marcus P. Zillman to tutor you or your associate one on one in the privacy of your residence or office on the latest happenings of the Internet including Internet basics to advanced Internet searching using bots and creating your own personal blog.



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### **Internet Speaking by Marcus P. Zillman, M.S., A.M.H.A.**

<http://www.InternetSpeaker.net>

Visit this site to learn about Marcus P. Zillman's speaking engagements for your organization meetings and events. View and listen to his previous presentations as well as his weekly television shows.

### **Internet Consulting by Marcus P. Zillman, M.S., A.M.H.A.**

<http://InternetConsultant.BlogSpot.com/>

Visit this site to obtain information about obtaining the consultation services of Marcus P. Zillman for your company including eCommerce audits, utilization of bots, blogs and news aggregators or the creation of your own personal virtual private library powered by Subject Tracer™ Information bots!

### **Current Awareness Monitors, Alerts and Information Traps**

<http://www.ecurrentAwareness.com/>

Marcus P. Zillman's latest report Current Awareness Monitors, Alerts and Information Traps is available for purchase online and for immediate download. This report is a comprehensive listing of the latest resources, sources and sites for current awareness on the Internet. This is a must read for anyone who must stay current in their profession and/or business activity as the list of URLs will keep you at the leading edge of your career.

### **Market Intelligence Resources**

<http://www.MarketIntelligenceResources.com/>

Marcus P. Zillman's just released professional Internet MiniGuide is titled Market Intelligence Resources is available for purchase online and immediate download. This 193 page digital miniguide represents a comprehensive listing of the latest resources, sources and sites to discover the latest Market Intelligence sources available on the Internet with many of them freely available! Designed specifically for today's entrepreneur, professional and/or investor.

### **Entrepreneurial Links 101**

<http://www.EntrepreneurialLinks.com/>

Marcus P. Zillman's newly released 231 page eReference digital book for the up and coming entrepreneur. Entrepreneurial Links 101 gives an alphabetical listing of the very best Internet and World Wide Web sites covering Entrepreneur Resources, Business Intelligence Resources and an extremely comprehensive list of Online Research Tools. This is considered by many to be the entrepreneur's bible for finding relevant and competent online resources!



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## **Internet Privacy and Security Resources**

<http://www.InternetPrivacySecurity.net/>

Marcus P. Zillman's latest eReference digital publication is a selected comprehensive alphabetical listing of the latest resources and sites covering all aspects of privacy and security currently available over the Internet. From the board room to the family room, these resources and sites give you the information you need to maintain your privacy and security as you use the Internet in your business and personal life.

## **Research Resources Online Guide**

<http://www.ResearchResourcesOnline.net/>

Marcus P. Zillman's latest [LinkSeries Publication](#) is a 340 page digital guide of a selected comprehensive alphabetical listing of the latest and greatest resources and sites covering all areas of research that is currently available over the Internet. The guide covers online research resources and tools for the Newbie to research as well as the Seasoned researcher. Contents include: a) Research Resources, b) Research Tools, c) Student Research Resources Toolkit, d) Knowledge Discovery/Management and Data Mining Resources, e) Knowledge Discovery/Retrieval and the World Wide Web Resources, f) Business Intelligence Resources, g) Reference Resources, and h) Subject Tracer™ Information Blogs.

## **The Survivor's Manual for The New Economy.**

<http://www.NewEconomyManual.com/>

Marcus P. Zillman's latest LinkSeries Publication is a 239 page digital read that gives excellent resources and annotated sources for the new economy analytics, alerts, ecommerce, financial sources, invisible and deep web resources, social and business networking sources along with new economy competitive and business intelligence resources and an extremely comprehensive listing of new economy online tools.



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