

Grid, Distributed and Cloud Computing Resources Primer 2024

By

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Grid, Distributed and Cloud Computing Resources Primer 2024 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 pandemics, and more, using distributed resources on the Internet.

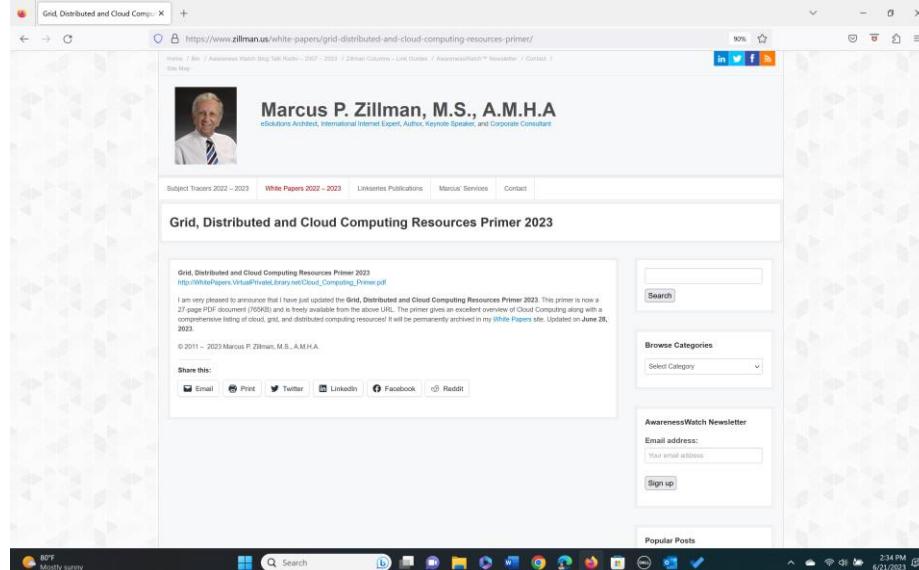


Figure 1: Grid, Distributed and Cloud Computing Resources Primer 2023

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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 exit 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 2024:

2022 Guide to Finding Experts by Using the Internet

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

2022 Guide to Finding People Resources and Sites

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

2022 Guide to Internet Privacy Resources and Tools

<http://www.2022InternetPrivacy.com/>

2023 Directory of Directories

<http://www.2023DirectoryOfDirectories.com/>

2023 Guide to Searching the Internet

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

2023 MiniGuides Series by Marcus P. Zillman, M.S., A.M.H.A.

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

2023 New Economy Resources

<http://www.2023NewEconomy.com/>

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/>

Altair – High Performance Computing (HPC) and Cloud

<https://www.altair.com/hpc-cloud-applications/>



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Amazon CloudSearch

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

Amazon Elastic Computer Cloud (Amazon EC2)

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

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>

ArchiveGrid - Historical Archives from Throughout the World

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

Aurora Files -Your Personal Cloud Storage Open Source

<https://afterlogic.org/aurora-files>

AWS: In Plain English

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

AWS: Use Cases

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

AWS Educate – Your Cloud Journey Starts Here

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

AWS Snowball – Physically Migrate Petabyte-scale Data Sets Into and Out of AWS

<https://aws.amazon.com/snowball/>

Best Cloud Backup Services 2022/2023

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

BioGRID – Biological General Repository for Interaction Datasets

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

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

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



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Boomi AtomSphere(SM)
<http://www.boomi.com/>

Building the Info Grid
<http://www.ariadne.ac.uk/issue45/buildinginfogrid-rpt/>

Charity Engine - Changing the World One Bit At a Time
<http://www.charityengine.com/>

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

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

Cloud.com – Create, Manage and Deploy Citrix Cloud Services To Your End-Users from One Simple Interface
<http://www.cloud.com/>

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

CloudApp – Visual Communication for Every Team
<http://www.getcloudapp.com/>

CloudBerry Online Backup for Amazon S3
<http://www.cloudberylab.com/amazon-s3-cloud-desktop-backup.aspx>

CloudBroker - High Performance Computing Software as a Service
<http://cloudbroker.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 Comparison Engine
<http://www.cloudorado.com/>

Cloud Computing - Wikipedia
http://en.wikipedia.org/wiki/Cloud_computing

Cloud Contact Forms – Free and in Cloud
<http://cloudcontactforms.com/>

Cloud Connected Devices For Cars Mojio
<http://www.moj.io/>

CloudFlare - Website Performance and Security
<http://www.cloudflare.com/>

CloudLab - Research On the Future of Cloud Computing
<http://www.cloudlab.us/>

Clouds Lab – Cloud Computing and Distributed Systems
<http://www.cloudbus.org/>

cloudSME – Cloud Architects
<http://www.cloudsme.eu/>

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

ClouT – BigClouT of Things for Empowering the Citizen Clout in Smart Cities
<http://bigclout.eu>

Cluster Computing: The Journal of Networks, Software Tools and Applications
<http://link.springer.com/journal/10586>

Condor Project - High Throughput Computing (HTC)
<http://research.cs.wisc.edu/htcondor/>

CrypyPad – The Zero Knowledge Cloud
<https://Cryptpad.fr/>

DAO Resources 2023/2024
<http://www.DAOResources.com/>

DataPipe

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

Deep Web Research 2024

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

dhtmlxGrid - Ajax-enabled DHTML Grid with Rich Javascript API

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

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

Distributed Generic Information Retrieval (DiGIR)

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

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 – Searching for Weak Astrophysical Signals from Pulsars

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

eScience Lab

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

e-Share – Collaboration That Secures Itself

<https://www.e-share.us/>



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EuroGRID

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

European Grid Infrastructure (EGI) - Towards a Sustainable Infrastructure

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

ExcelGrid

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

Extreme Science and Engineering Discovery Environment (XSEDE)

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

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

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

Flexiscale – Utility Computing On Demand

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

Folding@Home Distributed Computing

<https://foldingathome.org/>

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/>

Generative AI Resources 2024

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

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/>



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Google App Engine - Run Your Web Apps On Google's Infrastructure
<https://cloud.google.com/appengine/docs?csw=1>

Google Workspace – How Teams of All Sizes Connect, Create, and Collaborate
<https://workspace.google.com/>

Grid Application and Deployment Projects in Science and Engineering
<http://www.mcs.anl.gov/~itf/grid-projects/>

Grid Application Development Sofware Project (GrADS) [Project not Active]
<http://hipersoft.cs.rice.edu/grads/>

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

Grid Computing Info Centre (GRID Infoware)
<http://www.gridcomputing.com/>

Grid Computing Wikipedia
https://en.wikipedia.org/wiki/Grid_computing

Grid Forum – Development of Distributed Computing
<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 – Distributed Computing for Data-Intensive Research
<http://www.gridpp.ac.uk/>



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GridSim: A Grid Simulation Toolkit for Resource Modelling and Application Scheduling for Parallel and Distributed Computing
<http://www.cloudbus.org/gridsim/>

GridSim Toolkit -- Resource Modeling and Scheduling Simultation
<http://www.buyya.com/gridsim/>

Helix Nebula - The Science Cloud
<http://www.helix-nebula.eu/>

IBM Cloud Computing – Cloud Computing: A Complete Guide
<http://www.ibm.com/cloud-computing/us/en/>

iland Workforce Cloud – Complete Hosted Cloud Solutions
<http://www.iland.com/services>

Institute for 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>

Internet-based Distributed Computing Projects
<http://distributedcomputing.info>

JCGGrid Web (Java Grid Computing)
<http://jcgrid.sourceforge.net/>

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>

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

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

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

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

ManyVerse - Social Network Off the Grid
<https://www.manyver.se/>

Mastodon Resources 2024
<http://www.MastodonResources.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/>

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 M9 - The Evolution of Peer-to-Peer
<http://www.mysternetworks.com/>

Nasuni – Store and Synchronize Files Globally at Any Scale
<http://www.nasuni.com/>

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

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

NIST Cloud Computing Program (NCCP)
<https://www.nist.gov/programs-projects/nist-cloud-computing-program-nccp>

OneHub - Flexible Remote Cloud to Share Files, Manage Projects and Online Collaboration
<http://onehub.com/>

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

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

Open Data Sponsorship Program AWS
<https://aws.amazon.com/opendata/open-data-sponsorship-program/>

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

Open MetaVerse Resources 2024
<http://www.OpenMetaVerse.us/>

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

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/>

Parabon – Engineering DNA for Next-Generation Therapeutics and Forensics
<http://www.parabon.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/Jeroeoen/cloud-computing-34120407?qid=843a2a29-205c-4a96-81e9-b4d3a4773672&v=qf1&b=&from_search=4

Peer to Peer Working Group - P2P WG - Internet2
<http://p2p.internet2.edu/>

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

PVM: Parallel Virtual Machine
<http://www.csm.ornl.gov/pvm/>

QADPZ - Quite Advanced Distributed Parallel Zystem
<http://qadpz.sourceforge.net/>

Quantum Cloud Services (QCS)
<https://www.rigetti.com/>

RackSpace Cloud - Cloud Computing, Cloud Hosting and Online Storage
<http://www.rackspace.com/cloud/>

SBGrid Consortium – for Structural Biology
<http://sbgrid.org/>

ScienceLogic
<https://sciencelogic.com/>

ScienceNode
<https://sciencenode.org/>

Science United – Do Science Research on Your Computer, Tablet or Phone
<https://scienceunited.org/>

SIXTRACK - Research Project Using Internet Connected Computers to Advance Accelerator Physics
<http://lhcathome.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/>

TIBCO Cloud
<https://cloud.tibco.com/>

The Beowulf Cluster Site Mailing Lists
<http://www.beowulf.org/>

The Globus Alliance
<http://www.globus.org/>

Tutorial: Cloud Computing
<http://thecloudtutorial.com/>

Tools: Cloud Based Data Analysis Tools
<http://datawiz.io/>

Tools: Apache CloudStack™ - Open Source Cloud Computing
<https://cloudstack.apache.org/>

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

Tools: CloudCheckr - Manage Your Entire Cloud Infrastructure In One Place
<http://cloudcheckr.com/>

TOP500 Supercomputer Sites
<http://www.top500.org/>

UNICORE Distributed Computing and Data Resources
<http://www.unicore.eu/>

vCloud at Carnegie Mellon
<http://www.pdl.cmu.edu/vCloud/>

VirtuStream – Cloud Performance Enterprise Perspective
<https://www.virtustream.com/>

We.Team – Free Audio Video Calls
<https://we.team/>

WLCG - Worldwide LHC Computing Grid
<http://wlcg-public.web.cern.ch/>

World Community Grid for Health Research
<http://www.worldcommunitygrid.org>

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/>

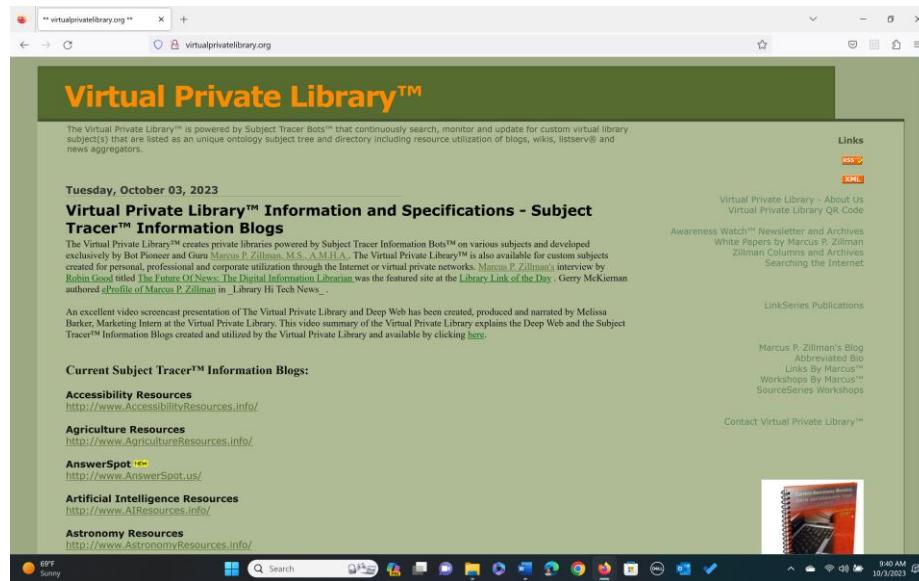


Figure 2: Virtual Private Library™

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.:

Marcus P. Zillman's Blog (26,000+ Postings)

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

Marcus P. Zillman Abbreviated Bio

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

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™

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

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