

Leveraging CA Gen in a Virtual Environment

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Wednesday, November 14



agility
made possible™



cloud computing defined

- Forrester Research:
“A standardized IT capability, such as software, application platform, or infrastructure, delivered via internet technologies in a pay-per-use and self-service way.”
- Burton Group:
“The set of disciplines, technologies, and business models used to render IT capabilities as on-demand services.”
- NIST – National Institute of Standards and Technology:
“A model for enabling convenient, on-demand network access to a shared pool of configurable computing resources that may be rapidly provisioned and released with a minimum of management effort or service provider interaction”

flavors of cloud computing

Private Cloud

- Shared internal pool of IT resources
- Highly virtualized
- Network accessible; inside firewall
- Hardware / infrastructure owned and controlled by organization
- Businesses pay only for IT services they consume

34%

Hybrid Cloud

44%

Public Cloud

- Externally available IT resources
- Available for use across the internet
- Infrastructure owned and managed by provider
- Pay as you go

22%

cloud computing service models

SaaS

Software as a Service – completed applications available to the enterprise

PaaS

Platform as a Service – programming platform that enables developers to build applications for cloud

IaaS

Infrastructure as a Service – raw computing resources (servers, network, memory, CPU, disk space, data center facilities, etc.) as a service

why use the cloud?

Lower Upfront Costs

Pay as you go

*Hardware / software
provided by cloud
vendor*

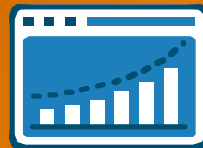


Scalable

*Add resources during
peak times*

*Remove resources
when not in use*

Allows for fast growth



Reduce Capital Costs

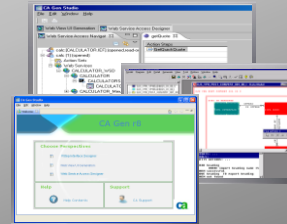
*They become
operational costs*



CA Gen maximizes architecture flexibility

Single CA Gen Model

- Data requirements
- Business rules
- UI, browser design
- Process flows



Multiple Architectures



Web services
SOA



Cloud
Enabled



Multiple Platforms

.NET



Java

z/OS



Linux on
System z

Linux



Unix

developing applications for the cloud connected enterprise



3Tera AppLogic



Amazon EC2
Elastic Compute Cloud



Microsoft
 **Windows Azure™**

- AWS EC2: Amazon Web Services Elastic Compute Cloud
 - Offers numerous Amazon Machine Images (AMI)
 - Linux (CentOS, Debian, Fedora, Gentoo, RedHat, SUSE, Ubuntu) / OpenSolaris
 - Windows 2003 / 2008
 - 32-bit / 64-bit
 - Public / Private
 - Small / Medium / Large
 - EBS (Elastic Block Storage) for persistence

- Offers CentOS, Open Solaris, Solaris 10 and Windows 2003/2008 Virtual Dedicated Servers (VDS)
 - Windows apps not installed by default
 - Must have licensed copies of Windows OS
 - Same is true with Solaris 10
 - 32-bit / 64-bit
- Targets 5 types of users
 - Subscribers: End-user applications deployed in the cloud
 - Data Center Operators: Provide cloud based on their datacenter
 - Publishers (ISV's, appliance vendors, verticals)
 - Integrated Web Services vendors
 - Providers for Outsourced Services

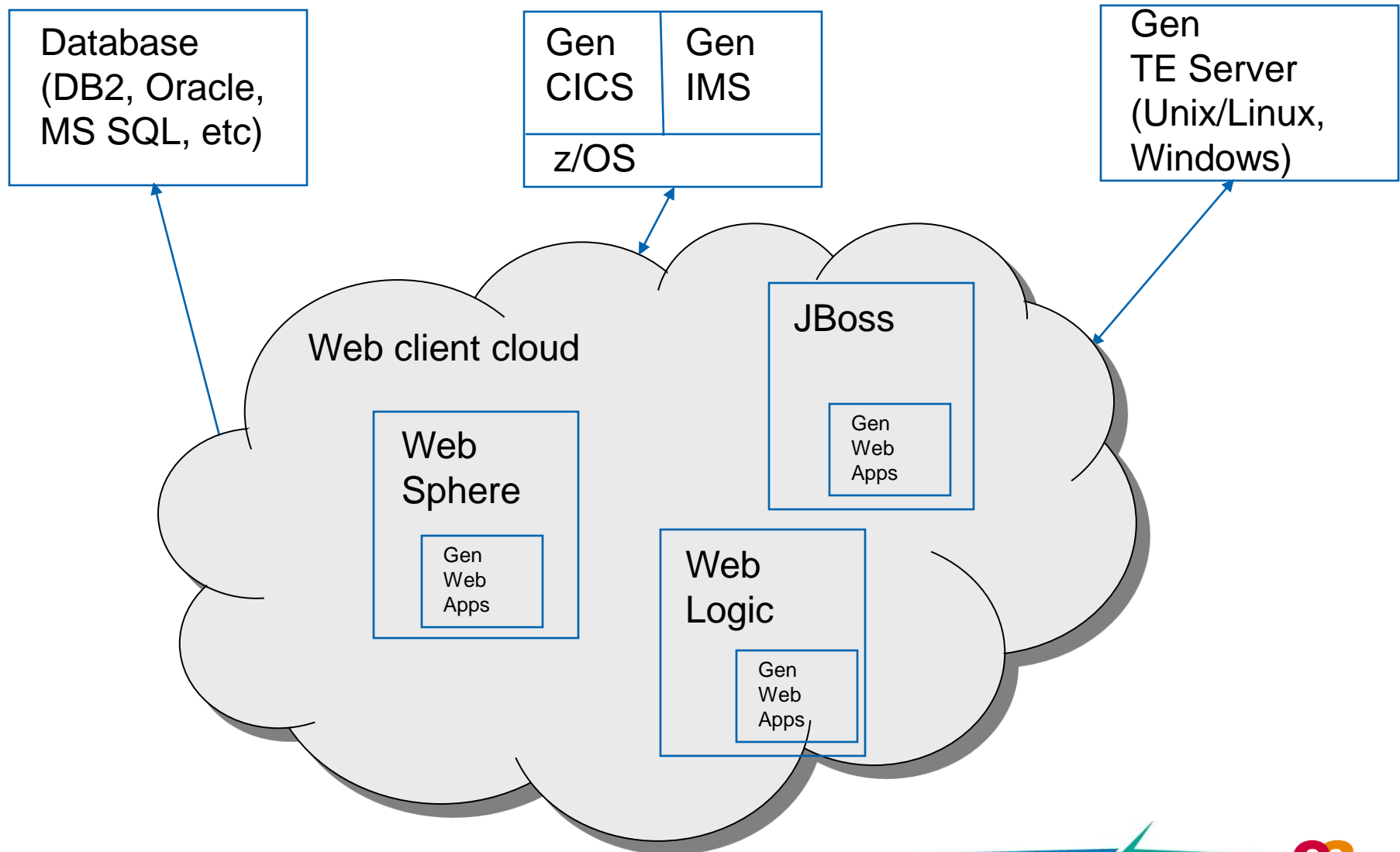
CA Gen and CA AppLogic / AWS

- Certified on AppLogic w/Windows 2003
 - Installed SQL Server 2005 SP2
 - C Servers running under 7.6 TE
- Tested AppLogic w/CentOS
 - Java web generation clients running under JBoss
- Certified on AWS Amazon-provided Windows 2008 w/SQL Server Express, 32-bit
 - C Servers running under 7.6 TE

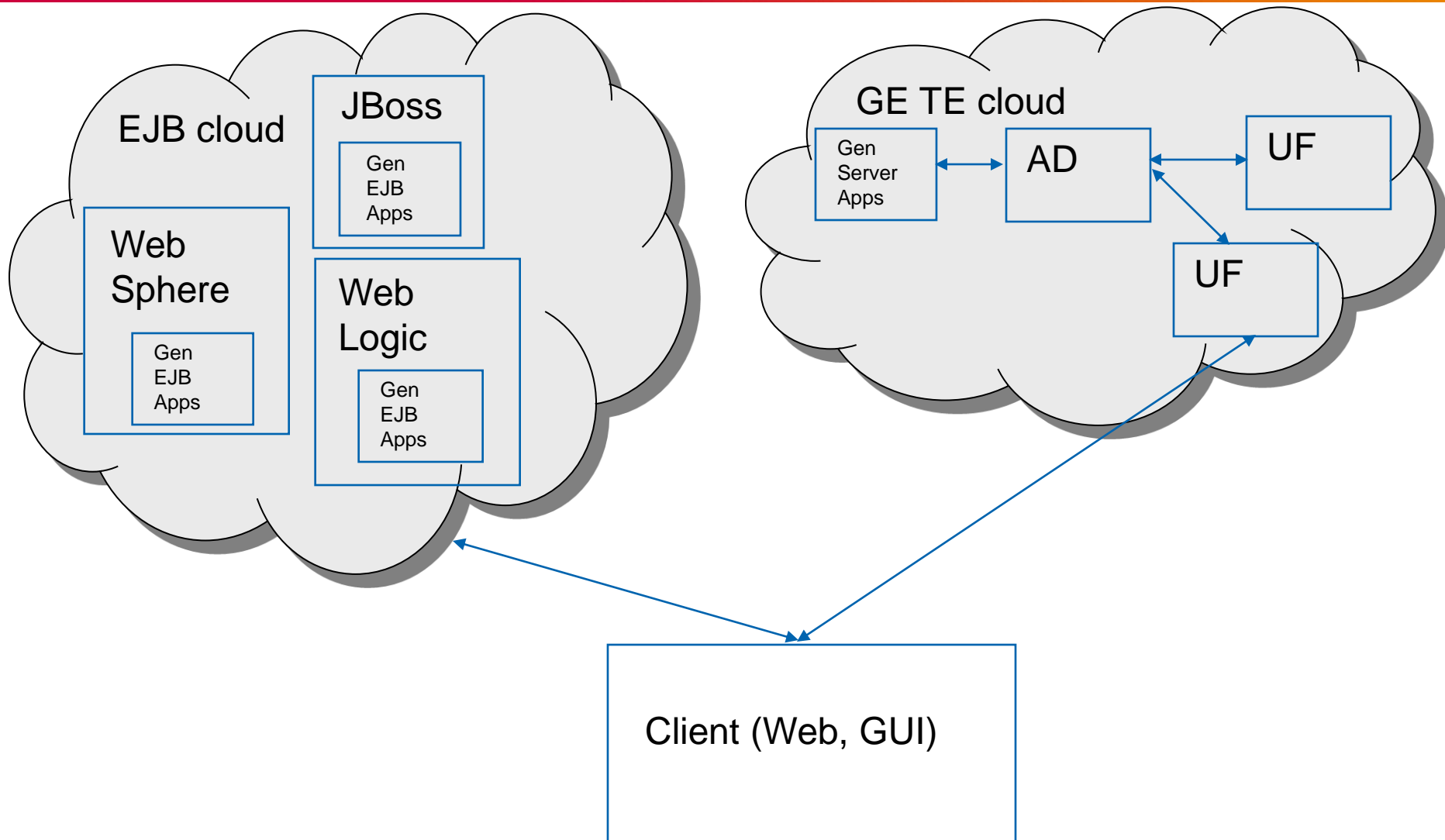
CA Gen application deployment options

- Web applications only
 - Keep proprietary information out of the cloud
- Server applications only
 - Allow access to server applications via the internet
- Full application deployment
 - Take full advantage of cloud capabilities

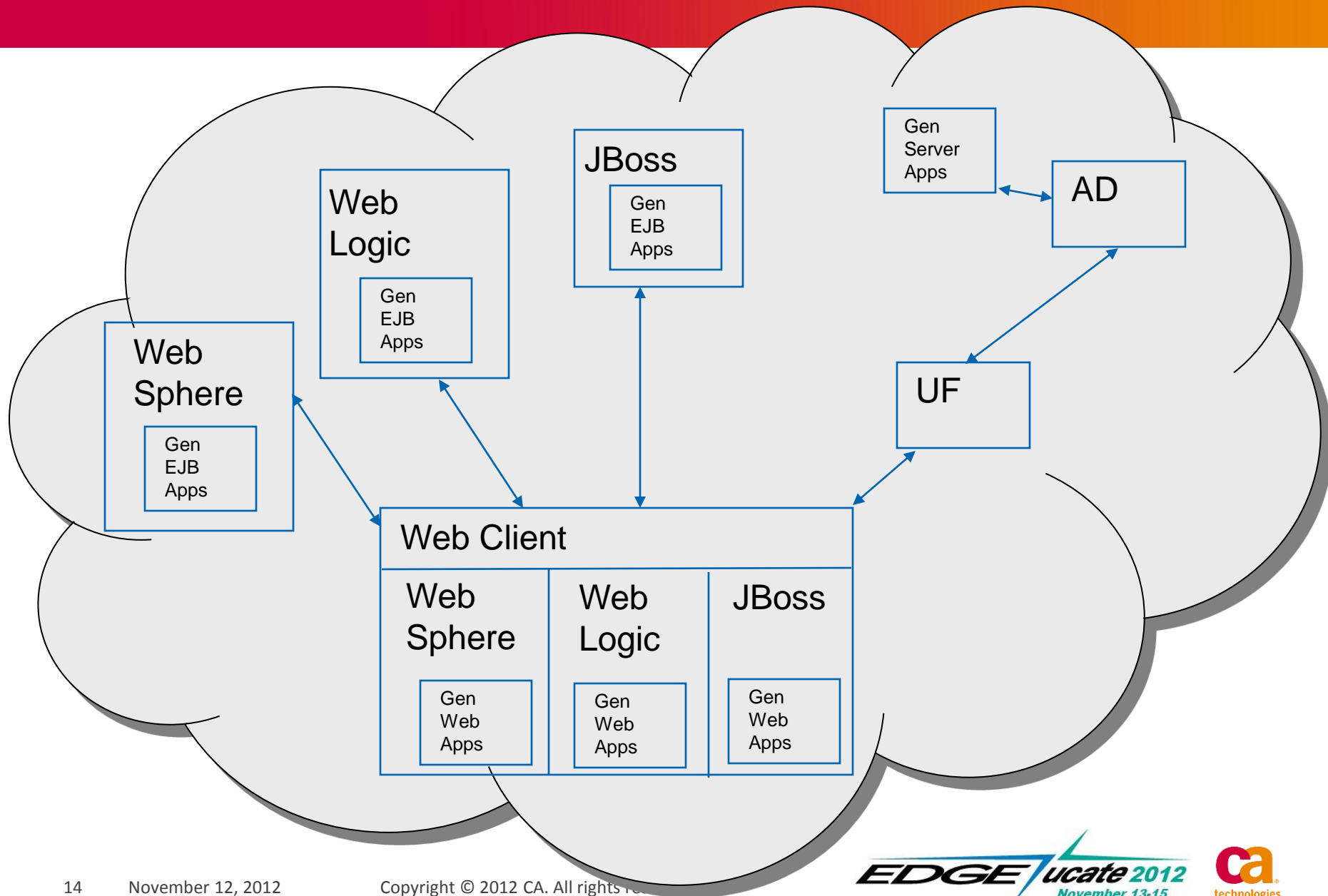
CA Gen in the cloud: web clients



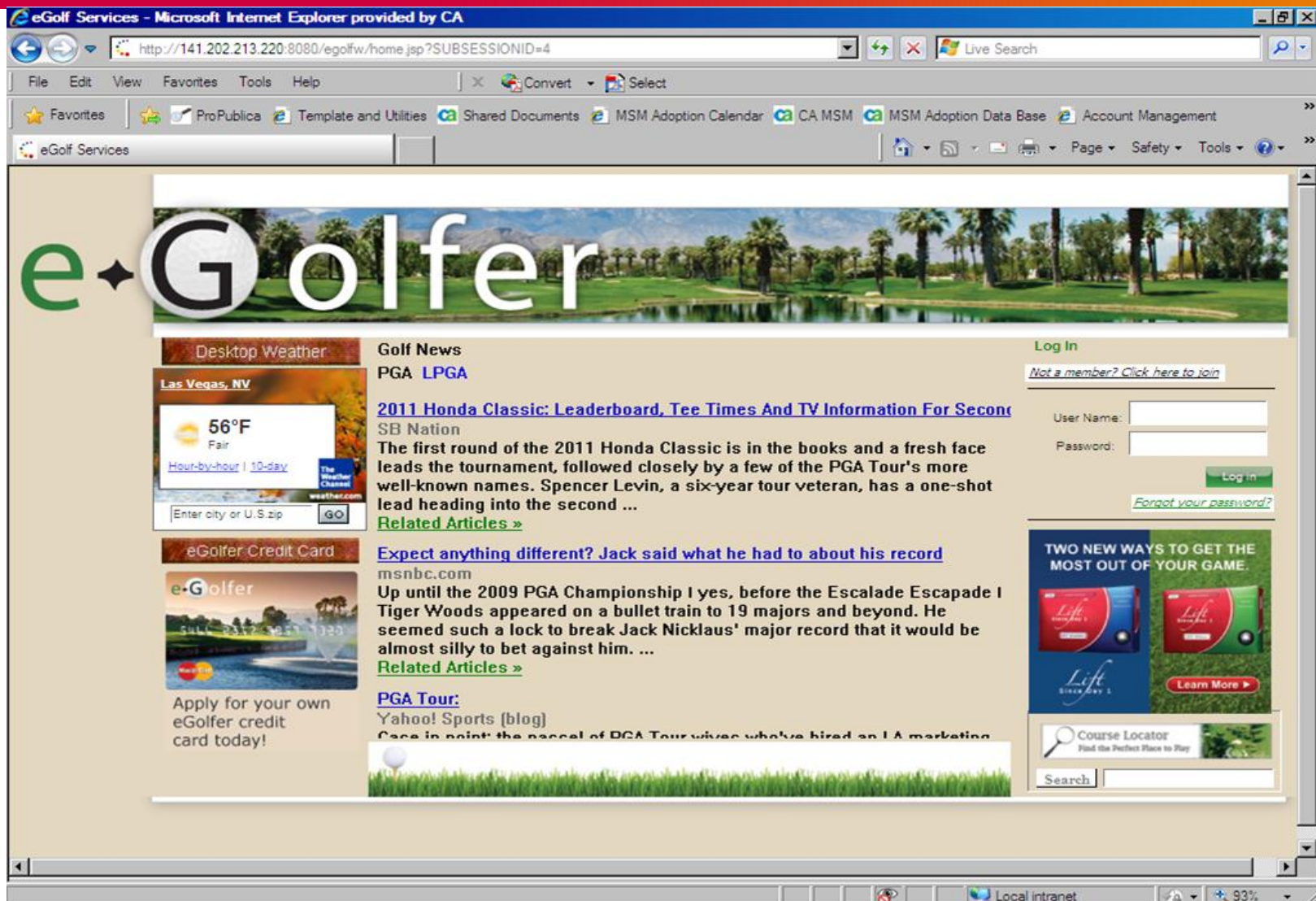
CA Gen in the cloud: servers



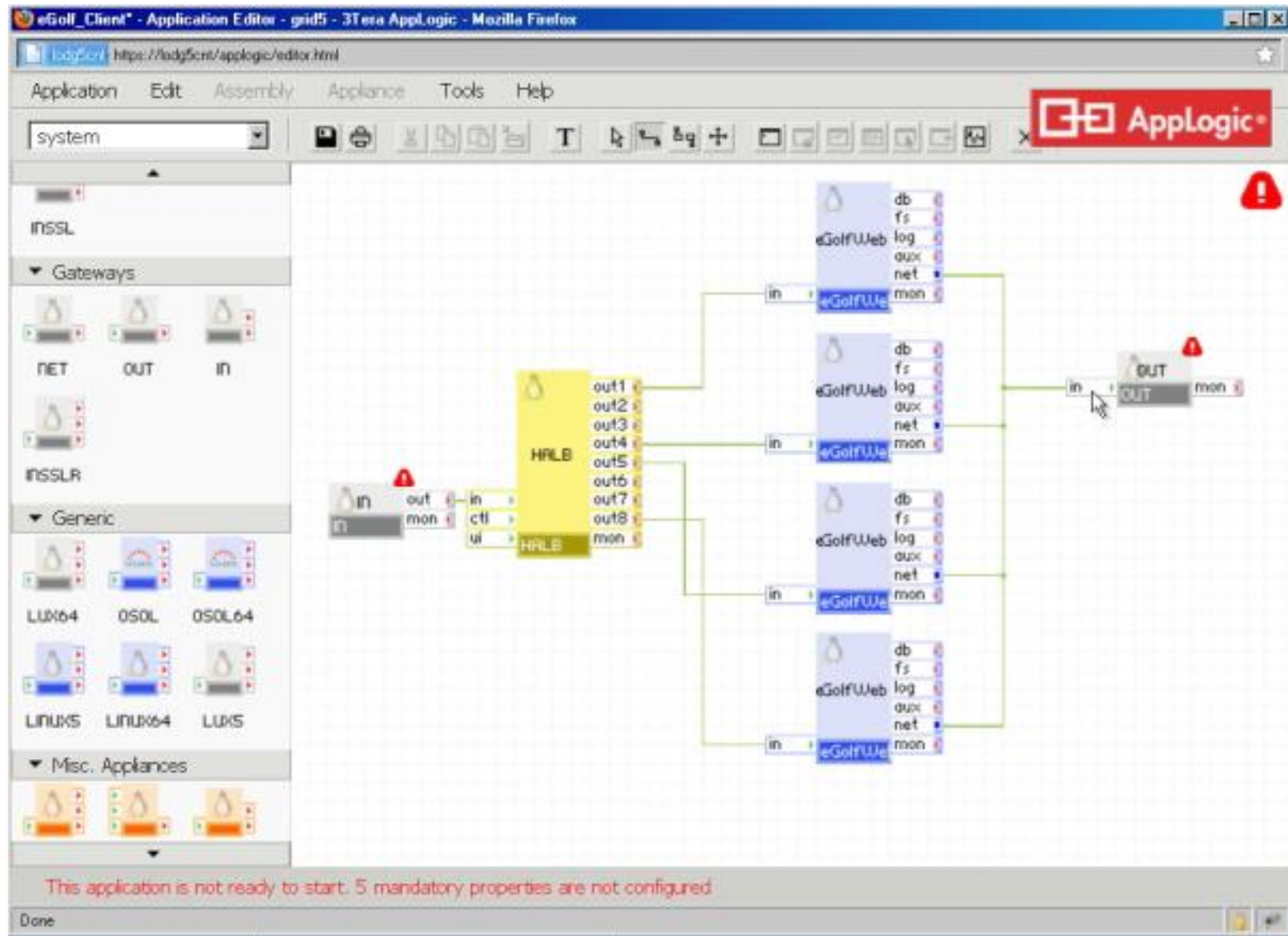
CA Gen in the cloud: client / server



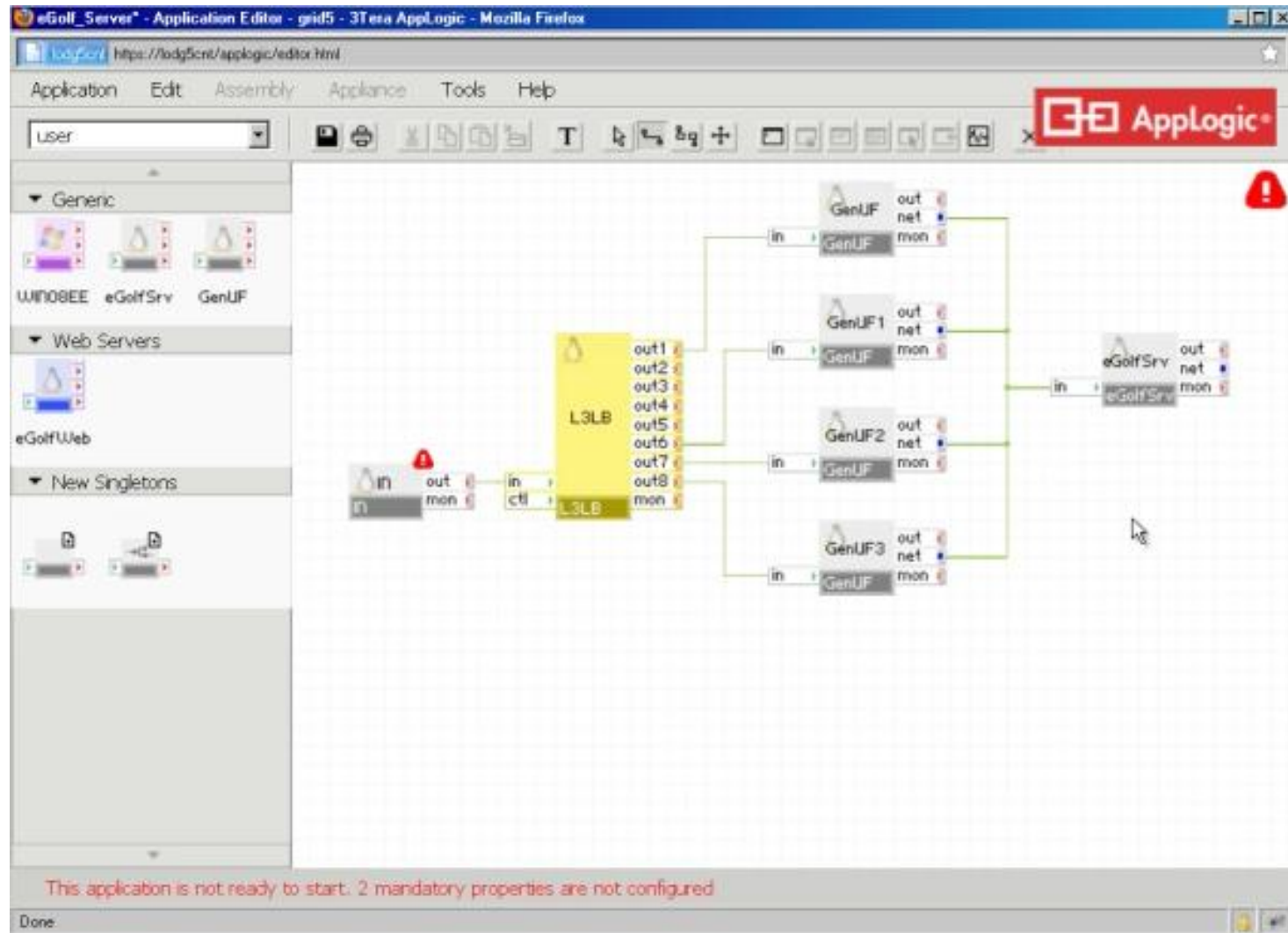
CA Gen deployment using CA AppLogic



web application



server application



maximize your cloud return on investment



Quicker
Results



Lower Cost



More Flexible
Solution



Lower Risk

Cloud Application Development with CA Gen

questions

thank you

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