High Availability
GIS in the Cloud

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Crisis

Thursday

Friday

Saturday

Servers Down
Traditional Trouble Shooting

- Reboot Servers?
- Spread Services Across Local Machines?
- Order New Equipment?

Panic!
Transition to the Cloud
Deployment

- **1 hr 15 mins**
  - To Stage

- **30 mins**
  - To Generate An AMI

- **15 mins**
  - To Deploy Live Servers
Handle Traffic
What We Learned

- **Start in the Cloud**: Avoid internal, static machines
- **Design for the Cloud**: Architecture should be cloud focused
- **Plan Ahead**: Avoid emergencies
Architecting in the cloud
Japan Impact Map
Aggregated Live Feeds…

Authoritative Content

Frequently Changing Data

How Can I Deploy and Scale?
Public Information Map

Get maps and assistance for the following incidents:

- Hurricanes & Cyclones
- Wildfires
- Flooding
- Severe Weather

We can help provide you with:
- Esri software – temporary or replacement software for what has been lost or destroyed
- Data and Imagery
- Consulting, project assistance, and technical support

Learn more about the disaster relief.

Global Incident Viewer

See where volcanoes, earthquakes, fires, and cyclones are happening right now.

Launch map
Hurricane PIM

- Over 1 Million hits in 1 day on our web map
- Over 7 Million dynamic map requests in 1 day
Next Phase

- Linux
  - Linux 10.1 instances are cheaper and boot faster

- Auto Scaling
  - Avoid manual load management

- Reserved Instances
  - Plan long term to save money
Articles

- High Availability Blog
  - http://esriurl.com/HighCapacity
- S3 deployment Blog
  - http://esriurl.com/S3Deploy
- Live Feeds Group
  - http://esriurl.com/LiveFeed
- Public Information Map
  - http://esriurl.com/PIM2
Survey & Questions

• [http://esriurl.com/survey](http://esriurl.com/survey)
  - Offering ID: 241
Understanding our world.