Software Engineering for Economists

Cloud Computing

Agenda

- Basics

- Tutorials

  - Virtual Machine

  - Storage Accounts

Basics

What is Cloud Computing?

On-demand services, delivered over the network.

Relevant Services:

- Infrastructure Services

  - Virtual Machines

- Data Services

  - Storage Accounts

Why in Economic Research?

- Big Compute
  - Estimation
  - Simulation
  - Perturbation
- Big Data
  - Storage
  - Collection
  - Collaboration

Providers

Google Compute Engine	https://cloud.google.com
Amazon Web Services	https://aws.amazon.com
Microsoft Azure	http://azure.microsoft.com

Microsoft Azure

Resources

Microsoft Azure   http://azure.microsoft.com
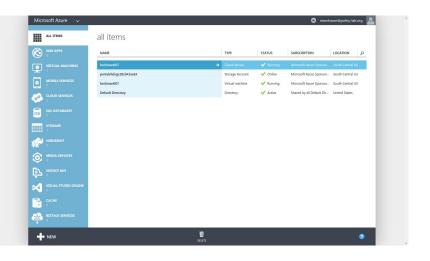
Python Development   http://azure.microsoft.com/python

Microsoft Research   http://research.microsoft.com/azure

- ▶ Training Events   ▶ Webinars
- ▶ Online Tutorials   ▶ Award Program

Figure: Microsoft Azure Management Portal

Tutorials

Virtual Machines

What to expect?

- Creating

  - Microsoft Azure Management Portal

- Accessing and Working

  - Basics of SSH

Storage Accounts

What to expect?

- Creating

  - Microsoft Azure Management Portal

- Managing

  - Microsoft Azure SDK for Python

Microsoft Azure SDK for Python

▶ Set of Python packages that make it easy to access the Microsoft Azure components such as Service Management, Storage, and Service Bus.

Website: https://github.com/Azure/azure-sdk-for-python

Figure: Blob Service Concepts