

B345 Internet Science and Technology

Week 8 lecture 1

Today's Lecture Learning Objective

- Understand the basic architecture of Microsoft .NET.

Architecture

- Stakeholders
 - Concerns
- Descriptions from Microsoft.
- Descriptions from other literature.

Some Stakeholders and Concerns

- Users
 - Features
 - Ease of use
 - Security
- Owners and Managers
 - Features
 - Ease of use
 - Cost (purchase/deployment/operations/maintenance)
 - Security

Some Stakeholders and Concerns

- Support Personnel
 - Ease of deployment
 - Testing and Monitoring
 - Security
- Developers
 - Ease of development (individual/team)
 - Future-proofing

Unraveling the Hype

<< See first diagram at
<http://www.microsoft.com/net/basics/whatis.asp> >>

<< See diagram on page 3 of 4 at
http://www.microsoft.com/net/downloads/net_today.pdf>>

More Specific Concerns

- Developers
 - Infrastructure leverage
- Users
 - Extensible features
 - Configurable features
 - Availability on platform

More Specific Concerns

- Managers
 - Extensible features
 - Configurable features
 - Interoperability
- Support Personnel
 - Ease of infrastructure maintenance
 - Ease of updates

Managed Code and CLR

<< See Diagram A >>

.NET Applications

<< See diagram B >>

Application Execution

<< See diagram C >>

Cross Language Development

<< See diagrams D and E >>