

Intro & Autofac Primer w/App Demo



Miguel A. Castro

PRINCIPAL CONSULTANT

@miguelcastro67 www.melvicorp.com



Overview



Autofac is one of the more *(if not the most)* modern DI containers for .NET

ASP.NET:

MVC

Web API

Very little DI prerequisite knowledge

“Getting Started with Dependency Injection in .NET”

Jeremy Clark



Course Agenda

DI Primer/App Demo

- Autofac registration & resolve
- Demo “before” app
 - No DI at all

Autofac Integration

- NuGet packages
 - MVC
 - Web API
 - Configuration

Registering Components

- Automatic registering
- Scanning
- Modules
- Configuration



Course Agenda

Injection & Resolve

- Application modifications
- On-Demand
- Injecting into Views

Advanced Patterns

- Decorators
- ASP.NET Filters

Additional Scenarios

- OWIN
- Web Forms
- Client-side Libraries





Each module begins with code starter project that represents the completion of the last

Other courses

- Building End-to-End Multi-Client Service Oriented Applications
(Knockout and AngularJS editions)
- Developing Extensible Software
- WCF End-to-End
- WCF Power Topics
- Designing & Building Component-based AngularJS Applications



Autofac Primer

Step 1 Bad, Untestable Code

- Dependency “newing” embedded into consuming classes
- Stuck with production code for testing (bad)

Step 2 Testable, but Hard to Maintain Code

- Everything gets abstracted
- Code is testable
- Hard to “new up”
- Hard to introduce new dependencies

Step 3 Fully DI-Aware Code

- All classes get registered in container
- Top-level class resolved from container
- Container recursively resolves everything in the object graph



Demo



Autofac Primer



EasyBlog

Simple Blog Engine written in
ASP.NET MVC & Web API
w/KnockoutJS

No DI whatsoever.
All dependencies “new’d” up
in View & API Controllers

Exposes extensibility API
allowing customization for
multiple tenants

We’ll be DI’ing everything up,
including the extensibility
layer.



Demo



EasyBlog “the before state”

