

# Hangfire Dashboard and Job Storage

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# Summary

**Hangfire Dashboard**

**Exceptions and Logging**

**Job Storage**

# Hangfire Dashboard

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# How It Works



## **Written as OWIN Middleware**

- ASP.Net, Nancy and ServiceStack

## **OWIN Self-host**

- Console app and Windows Services

## **Requirements**

- Microsoft.Owin.Host.SystemWeb
- OWIN Startup class
- `app.UseHangfireDashboard()`

# Demo

## Features

- Servers
- Jobs
- Retries
- Batches
- Recurring Jobs
- Dashboard

# Demo

## Configuration

- Creating a link
- Changing the URL
- Changing “Back to site” link
- Multiple dashboards
  - Remote Hangfire managing
  - Connecting to multiple Hangfire databases
  - Disabling Hangfire server

# Demo

## Security

- Local access by default
- Remote access requires authorisation
- Hangfire.Dashboard.Authroization
- IAuthorizationFilter
- Authorization before  
app.UseHangfireDashboard()

# Exceptions and Logging

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# Demo

## Exceptions

- Code sometimes throws an exception
- Hangfire handles exceptions
  - Internal
  - External
- View in Hangfire dashboard or logs
- Failed job after retries
- AutomaticRetry
  - Global job filter
  - Method level

# Demo

## Logging

- Automatic logging support:
  - Serilog, NLog, Log4Net, EntLib Logging, Loupe and Elmah
- Custom Logger
  - ILogProvider
  - ILog

# Demo

## Cancellation Tokens

- Handle cancellation of your job
  - Hangfire server shutdown
  - Manual cancellation of job
- IJobCancellationToken
  - ThrowIfCancellationRequested()
  - OperationCanceledException

# Job Storage

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# Demo

## **SQL Server Configuration**

- Polling Interval
- PrepareSchemaIfNecessary
  - Manual migrations

# Demo

## Hangfire Redis Support

- Pro only
- For performance
- Linux
- Unofficial Windows version
- Configuration
  - Hangfire.Pro.Redis
  - .UseRedisStorage()

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