



# **AUTOMATE** YOUR SHAREPOINT DEPLOYMENTS

WITH TFS BUILD  
SERVER

VLAD CATRINESCU

THANK YOU TO ALL OF OUR SPONSORS!!



# VLAD CATRINESCU



- INDEPENDENT SHAREPOINT CONSULTANT FROM MONTREAL
- POWERSHELL AND AUTOMATION FAN
- 6 YEARS IN IT, 4 WITH SHAREPOINT
- BLOG: [WWW.ABSOLUTE-SHAREPOINT.COM](http://WWW.ABSOLUTE-SHAREPOINT.COM)

## SharePoint-Community.Net

*An online community where SharePointers chat, learn and win great prizes*

**Microsoft**  
CERTIFIED  
Technology  
Specialist

**Microsoft**  
CERTIFIED  
IT Professional

**Microsoft**  
CERTIFIED  
Trainer

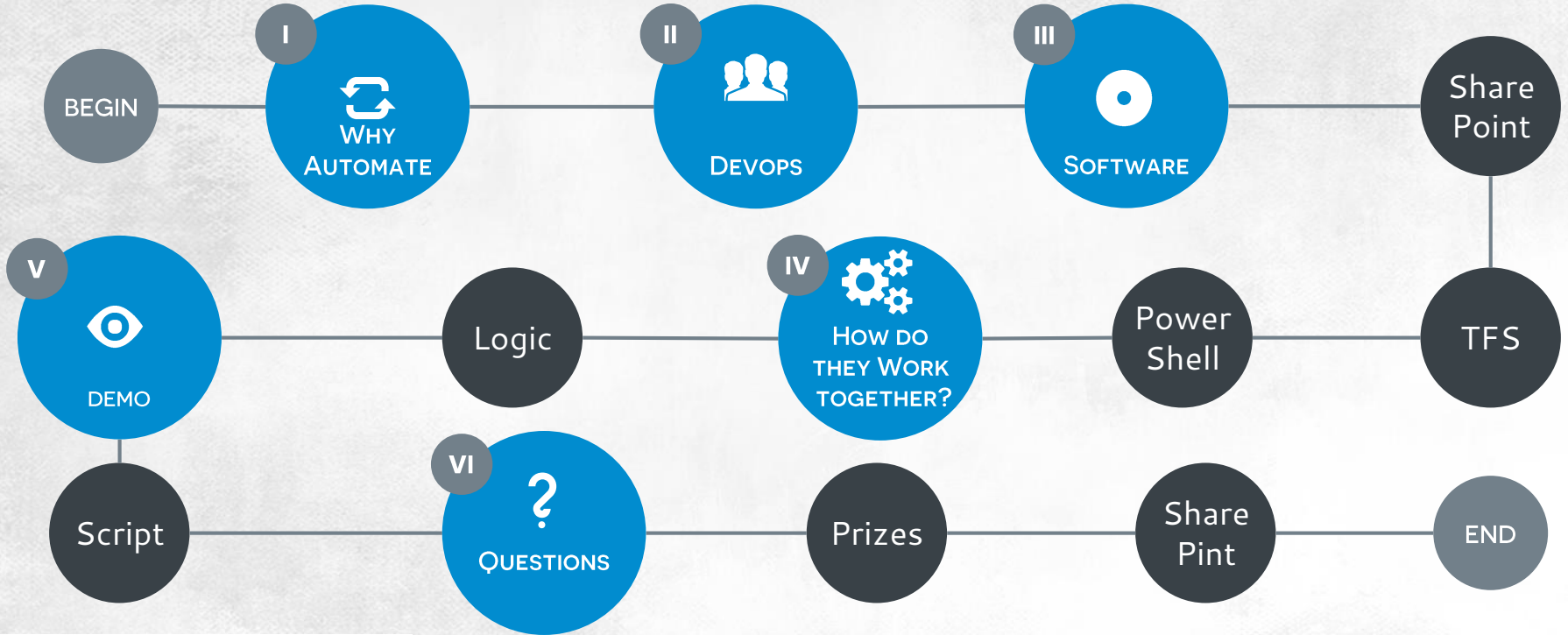


SHAREPOINT **SATURDAY**  
Ottawa

[WWW.VNEXT.SOLUTIONS](http://WWW.VNEXT.SOLUTIONS)  
Blog: [www.absolute-sharepoint.com](http://www.absolute-sharepoint.com) | e-mail: [vlad@vnext.solutions](mailto:vlad@vnext.solutions)



# PRESENTATION SUMMARY





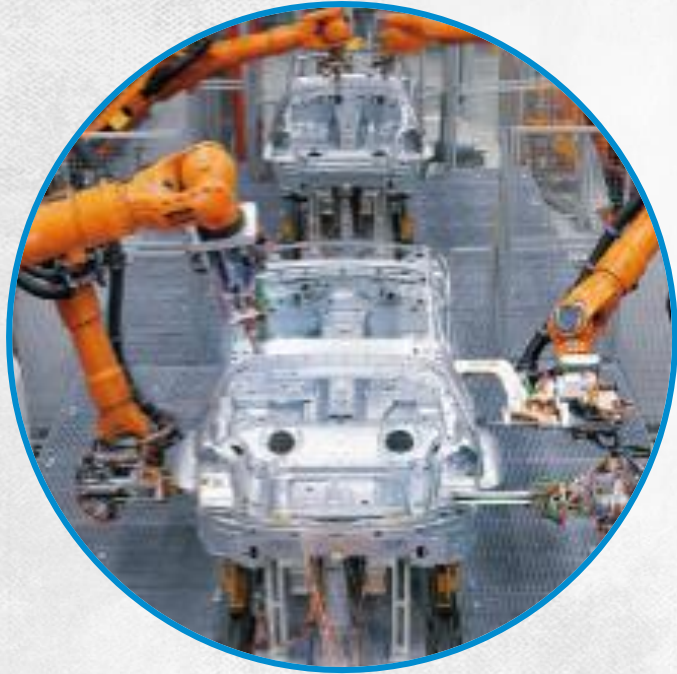
# WHY AUTOMATE?

Is it just a trend, or  
actually useful?

I

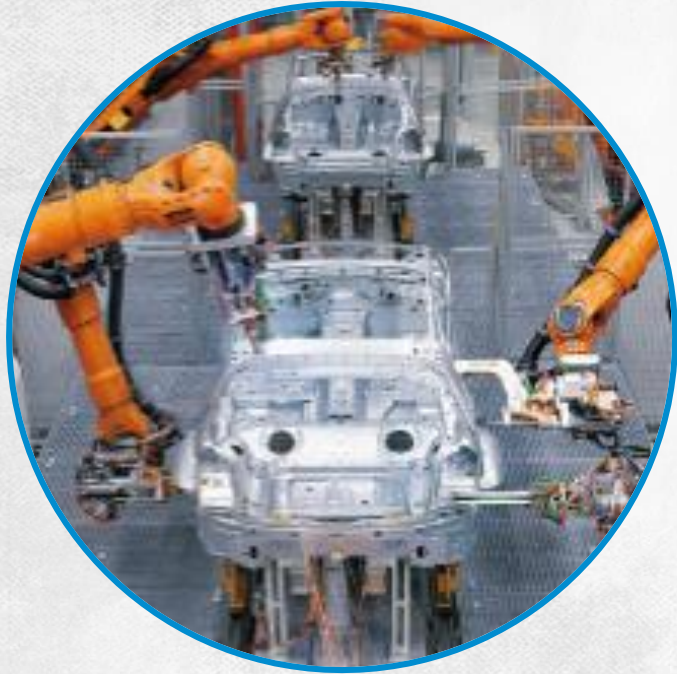


# WHAT IS AUTOMATION?



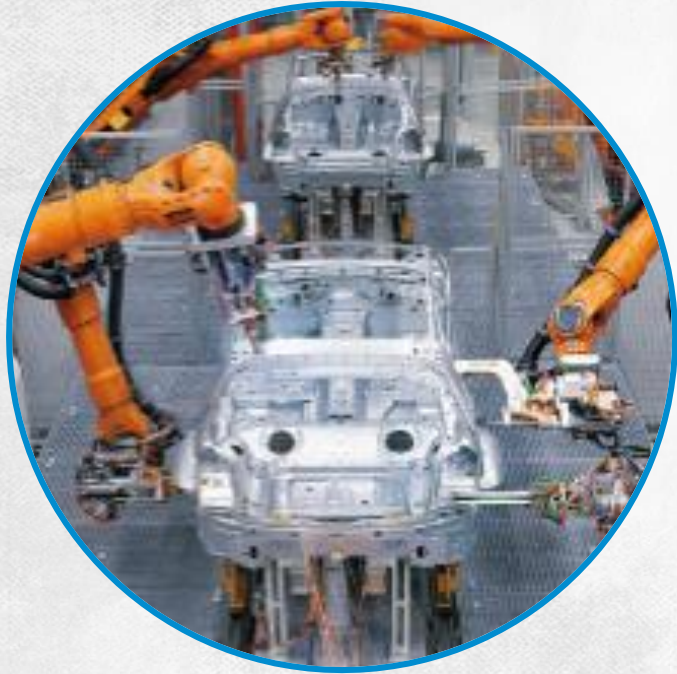
Automation is the use of tools and strategies that reduce human involvement or interaction in unskilled, repetitive or redundant tasks

# WHAT IS AUTOMATION?



Automation is the use of tools and strategies that reduce human involvement or interaction in **unskilled**, repetitive or redundant tasks

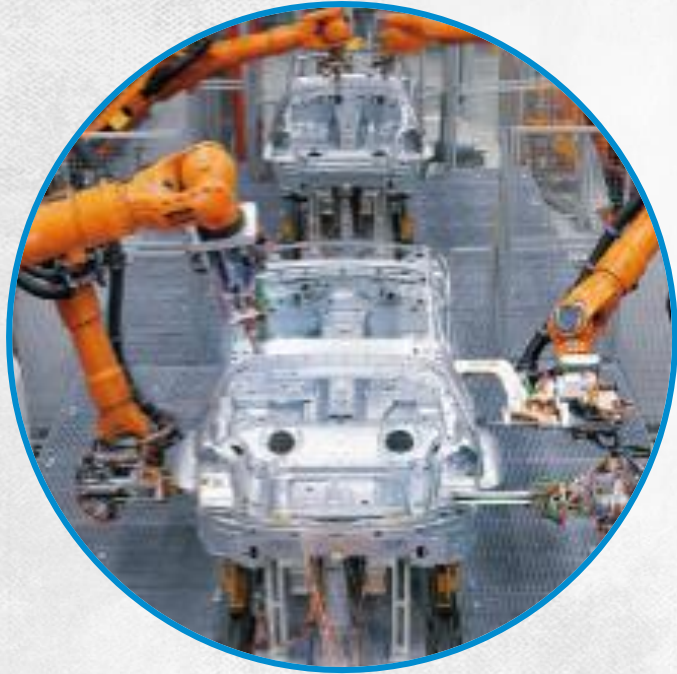
# WHAT IS AUTOMATION?



Automation is the use of tools and strategies that reduce human involvement or interaction in **unskilled, repetitive** or redundant tasks



# WHAT IS AUTOMATION?



Automation is the use of tools and strategies that reduce human involvement or interaction in **unskilled, repetitive** or **redundant** tasks

# WHY DO WE AUTOMATE?



TIME



MONEY



CONSISTENCY



HUMAN ERROR



# DEVOPS

Just a buzzword or  
actually useful?



# WHAT IS DEVOPS?



WIKIPEDIA

DEVOPS IS A SOFTWARE DEVELOPMENT METHOD THAT STRESSES COMMUNICATION, COLLABORATION AND INTEGRATION BETWEEN SOFTWARE DEVELOPERS AND INFORMATION TECHNOLOGY(IT) PROFESSIONALS. DEVOPS IS A RESPONSE TO THE INTERDEPENDENCE OF SOFTWARE DEVELOPMENT AND IT OPERATIONS. IT AIMS TO HELP AN ORGANIZATION RAPIDLY PRODUCE SOFTWARE PRODUCTS AND SERVICES.



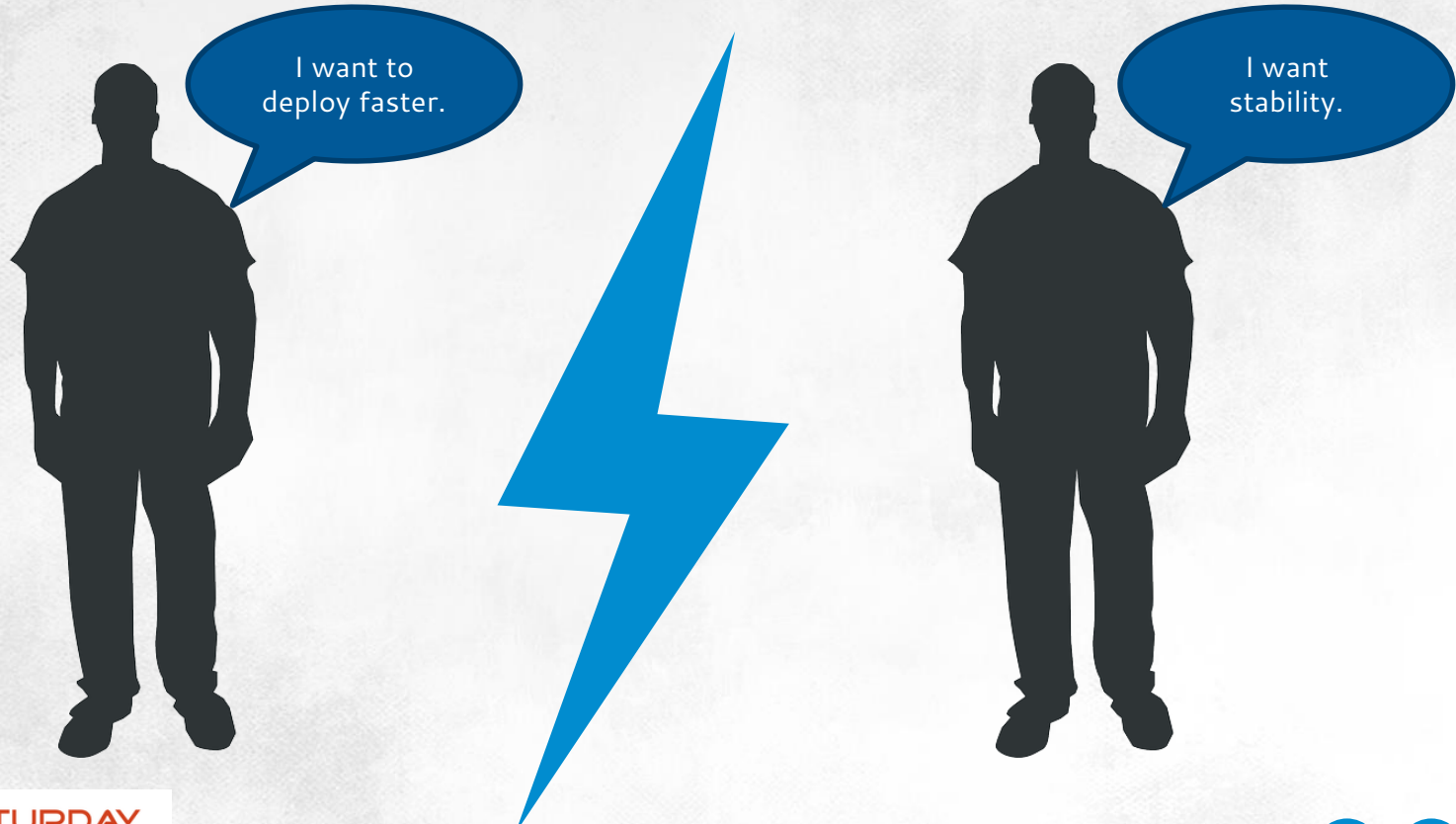
DAMON EDWARDS  
[HTTP://DEV2OPS.ORG/](http://dev2ops.org/)

DEVOPS IS A RESPONSE TO THE GROWING AWARENESS THAT THERE IS A DISCONNECT BETWEEN WHAT IS TRADITIONALLY CONSIDERED DEVELOPMENT ACTIVITY AND WHAT IS TRADITIONALLY CONSIDERED OPERATIONS ACTIVITY. THIS DISCONNECT OFTEN MANIFESTS ITSELF AS CONFLICT AND INEFFICIENCY.





# DEVELOPER VS IT PRO

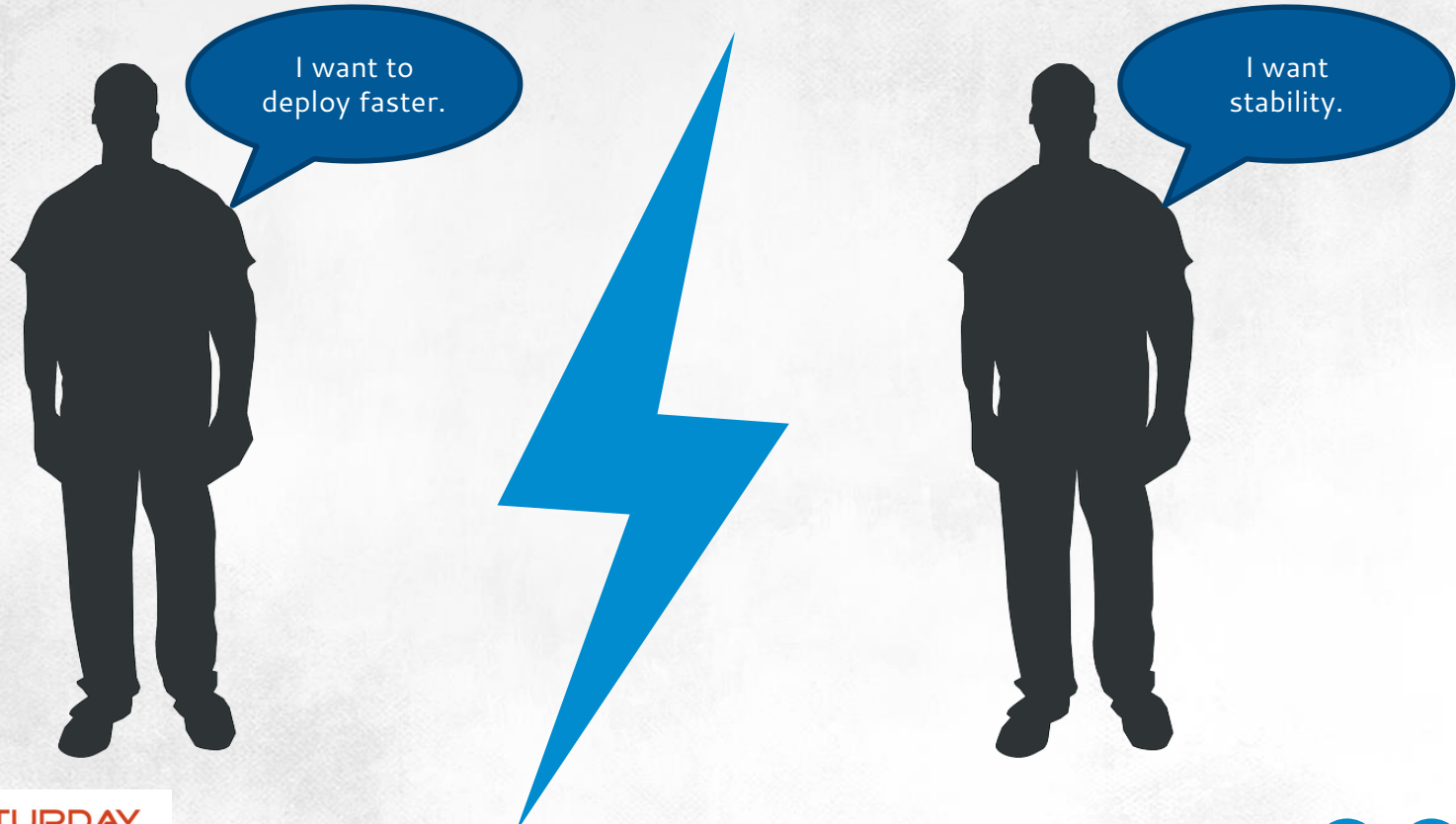




VS

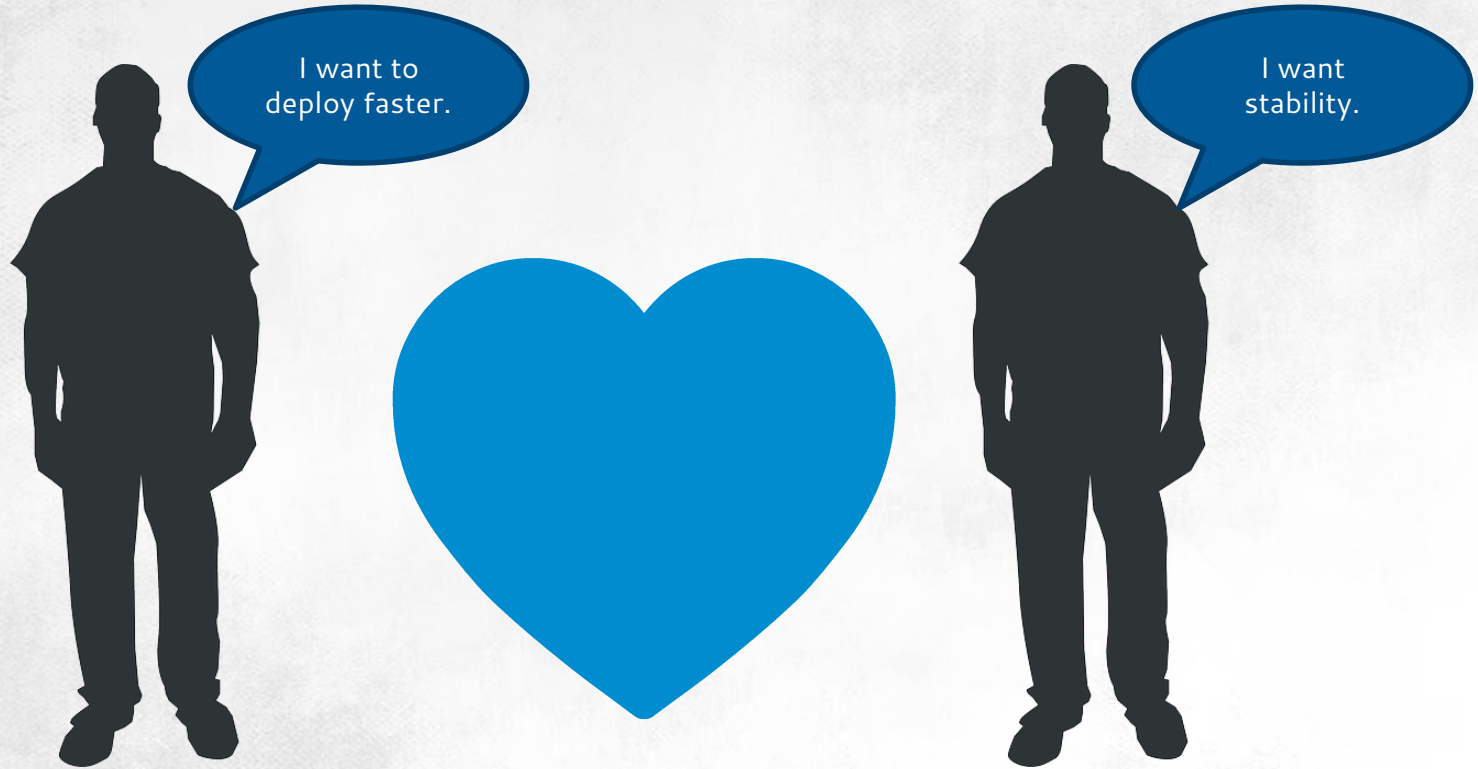


# DEVELOPER VS IT PRO





# DEVELOPER VS IT PRO







# SOFTWARE

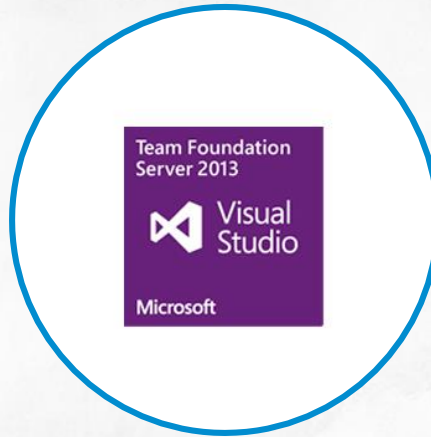
What will we be using?



# WHAT WE WILL USE



SharePoint



Team Foundation Server



PowerShell

# SHAREPOINT

## Why we need SharePoint



**SHAREPOINT  
ROCKS!!**



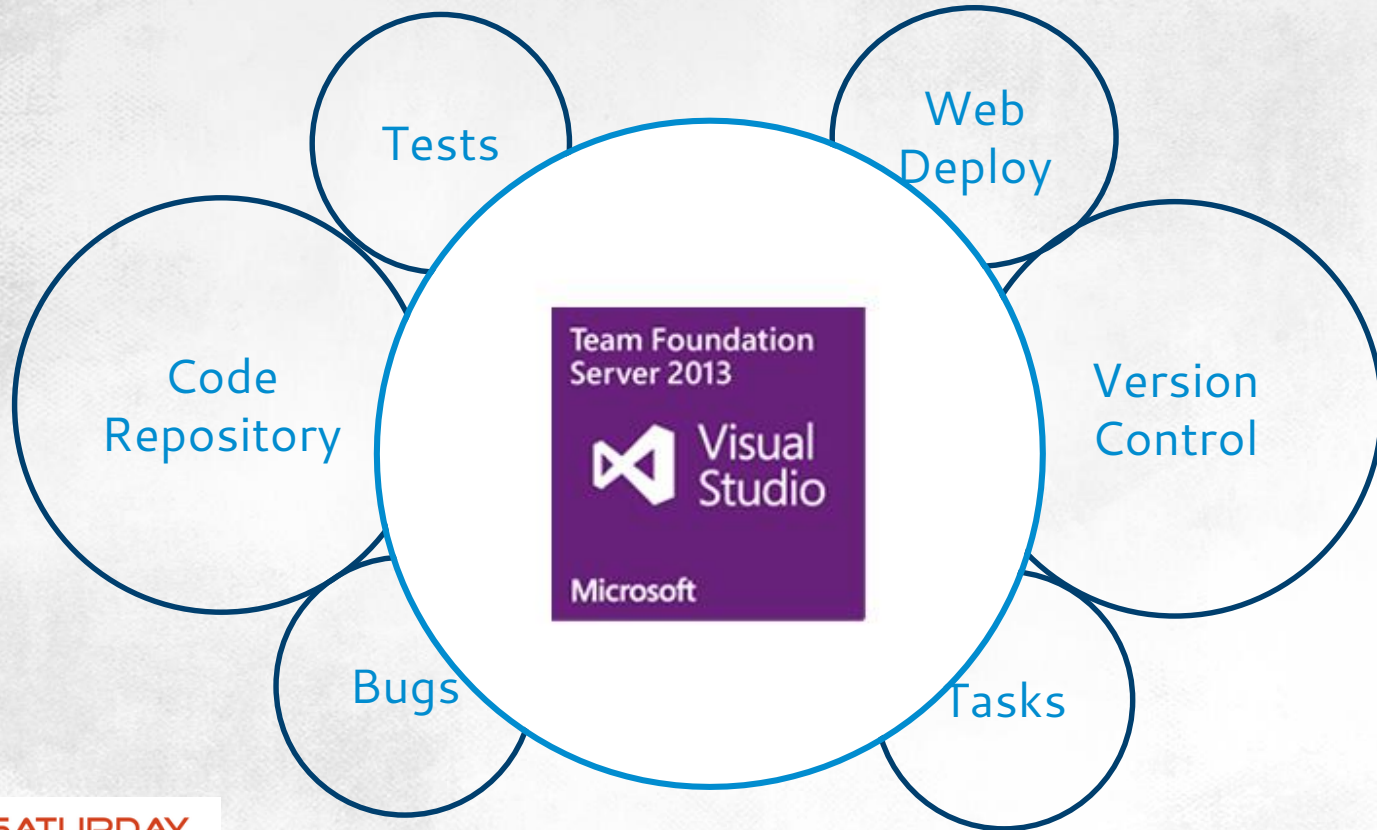
# TEAM FOUNDATION SERVER

Why we need TFS



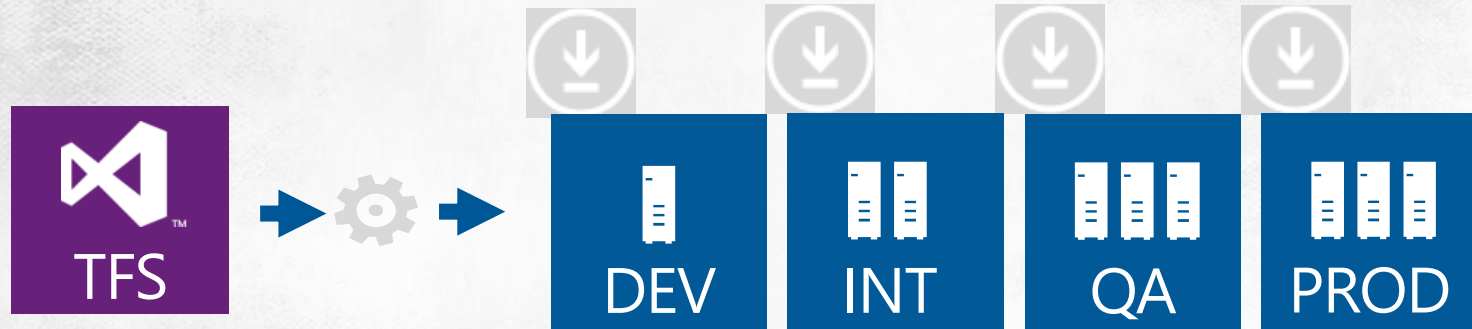


# TEAM FOUNDATION SERVER



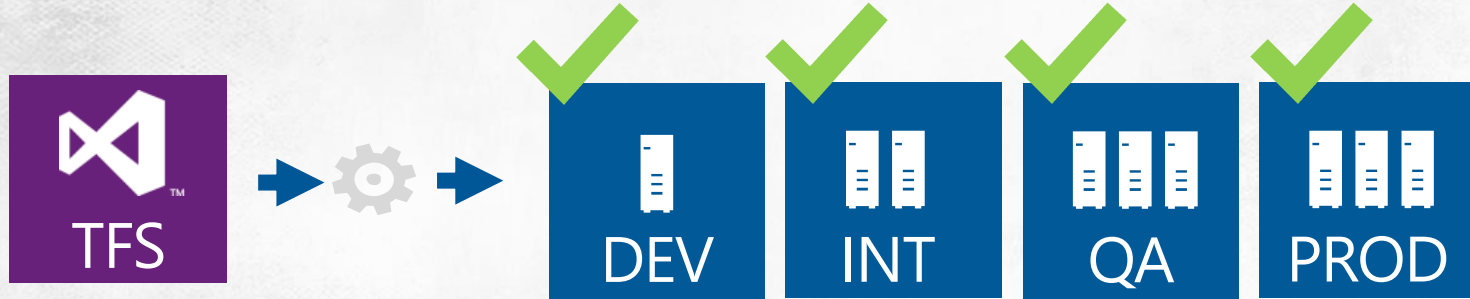
# AUTOMATING THE RELEASE CYCLE

Automates deployments



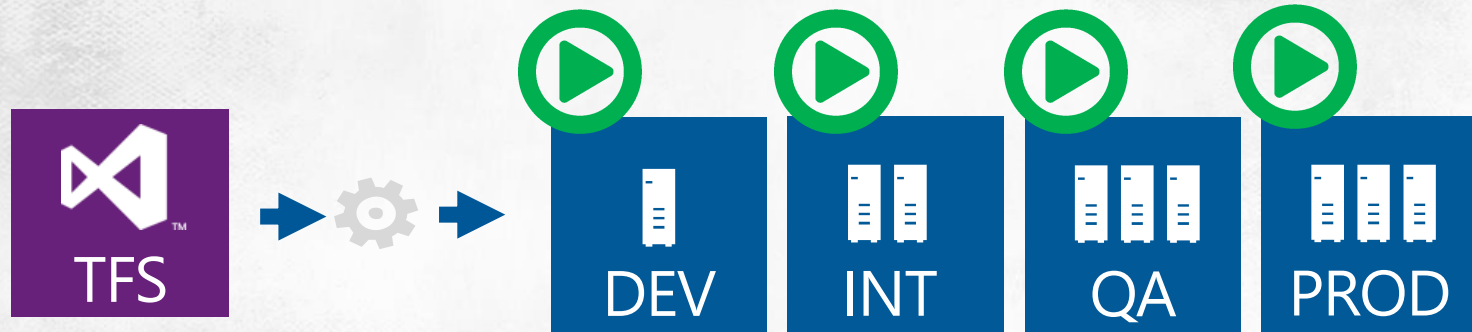
# AUTOMATING THE RELEASE CYCLE

Deploys the same way to all stages



# AUTOMATING THE RELEASE CYCLE

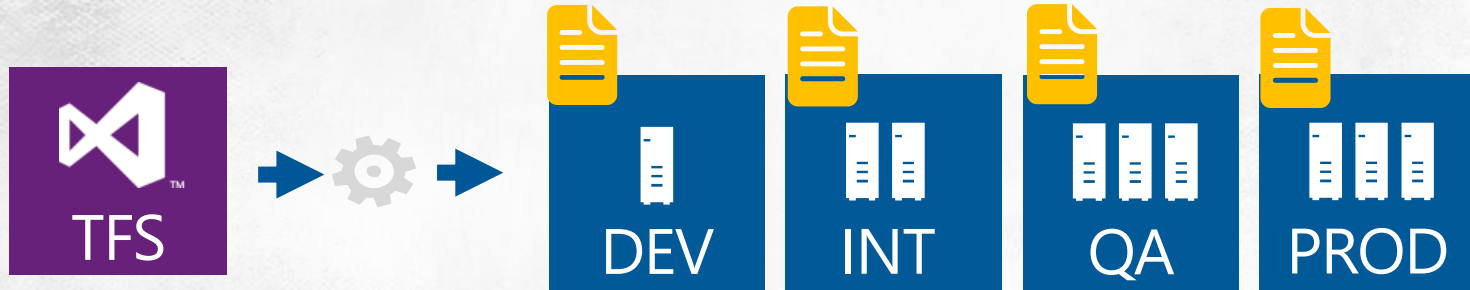
Scheduled / Manual builds





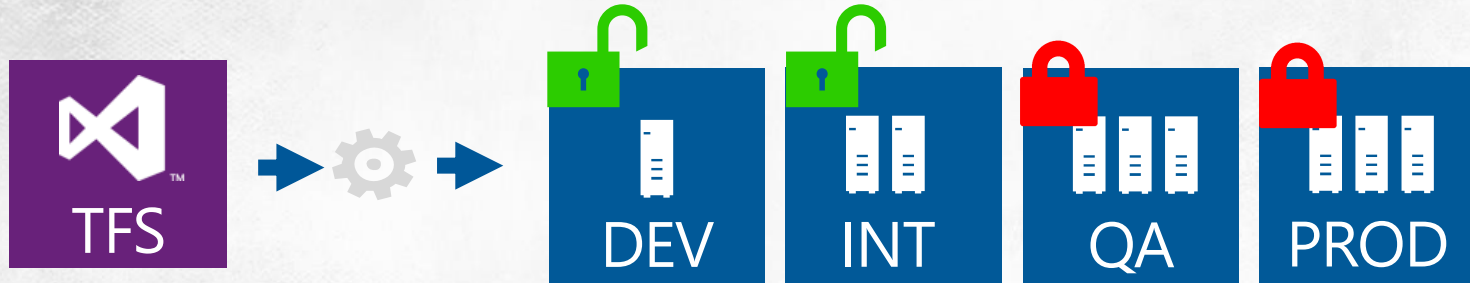
# AUTOMATING THE RELEASE CYCLE

Full Traceability



# AUTOMATING THE RELEASE CYCLE

## Build Level Permissions



# POWERSHELL

Why do we need it?



- 👍 SharePoint is ..... special.
- 👍 PowerShell is very powerful.
- 👍 Flexibility to do more than just "deploy"
- 👍 Ready to integrate with a lot more applications

IV



# HOW DO THEY WORK TOGETHER?

Learning the logic behind  
the magic





# HOW DO THEY WORK TOGETHER?

What is our goal?



# HOW DO THEY WORK TOGETHER?

What is our goal?



V



# DEMO

See it in action.



# DEMO

Here is our setup



Active Directory



Developer  
Visual Studio 2013



SharePoint Farm



[www.vnext.solutions](http://www.vnext.solutions)

Blog: [www.absolute-sharepoint.com](http://www.absolute-sharepoint.com) | e-mail: [vlad@vnext.solutions](mailto:vlad@vnext.solutions)



# DEMO

In this demo we see how Alex the developer can easily push his code to the Dev farm without ever having access to the server or having to run a PowerShell command. We will also look how the Administrator can deploy to the production server automatically without letting Alex do it. Finally, we will look at how this all works together and at different resources across the web.



# RESOURCES

| Configure Remote PowerShell in SharePoint 2010                        | <a href="http://blogs.msdn.com/b/varun_malhotra/archive/2010/06/10/configure-power-shell-for-remote-use-of-sp-2010.aspx">http://blogs.msdn.com/b/varun_malhotra/archive/2010/06/10/configure-power-shell-for-remote-use-of-sp-2010.aspx</a> |
|---|---|
| How to Build Office Developer Tools Projects with TFS Team Build 2012 | <a href="http://msdn.microsoft.com/en-us/library/ff622991.aspx">http://msdn.microsoft.com/en-us/library/ff622991.aspx</a>   |
| SharePoint/TFS Continuous Integration Starter Pack (Farm/Sandbox)     | <a href="http://sharepointci.codeplex.com/">http://sharepointci.codeplex.com/</a>   |
| Customize your build process template                                 | <a href="http://msdn.microsoft.com/en-us/library/dd647551.aspx">http://msdn.microsoft.com/en-us/library/dd647551.aspx</a>   |
| Office / SharePoint 2013 Continuous Integration with TFS 2012 (Apps ) | <a href="http://officesharepointci.codeplex.com/">http://officesharepointci.codeplex.com/</a>   |

REMEMBER TO FILL OUT YOUR EVALUATION FORMS TO WIN SOME GREAT PRIZES!

&  
JOIN US FOR SHAREPINT TODAY!

|                         |   |
|-------------------------|---|
| <b>Date &amp; Time:</b> | <b>Immediately after prizes</b>   |
| <b>Location:</b>        | <b>Observatory Student Pub</b>  |
| <b>Address:</b>         | <b>On Algonquin Campus</b>  |
| <b>Parking:</b>         | <b>No need to move your car!*</b>   |
| <b>Site:</b>            | <b><u><a href="http://www.algonquinsa.com/ob.aspx">http://www.algonquinsa.com/ob.aspx</a></u></b> |

\*Please drive responsibly! We are happy to call you a cab ☺

# THANK YOU!

## Questions & Answers



@vladcatrinescu



<http://ca.linkedin.com/in/vladcatrinescu>



[www.absolute-sharepoint.com](http://www.absolute-sharepoint.com)



[vlad@vnext.solutions](mailto:vlad@vnext.solutions)

