

Getting Started with Ansible on Windows

EXPLAINING ANSIBLE CONCEPTS AND INSTALLING



JP Toto

INFRASTRUCTURE DEVELOPER

@jptoto <http://jptoto.jp>



Administering Windows Servers



Web Servers



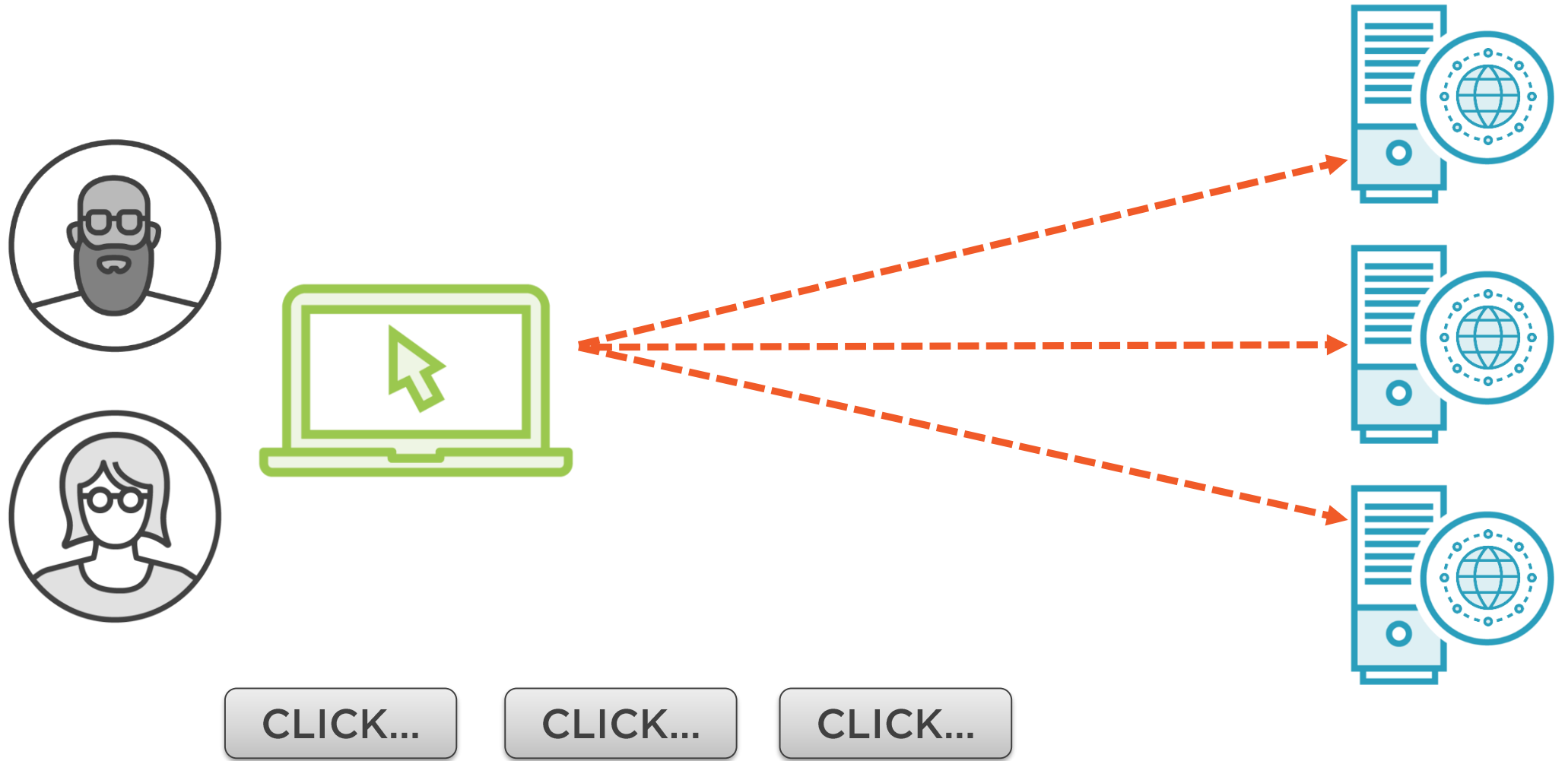
Database Servers



Application Servers



Manually Configure Servers



Ansible Just Did All the Work!



Installed and configured Internet Information Services



Setup a default web page



Used Ansible with one command



Ansible Windows Lab Resources



Windows 10



Domain
Controller



Domain
Member



Domain
Member



Domain
Member



Ubuntu Linux





Other systems: Chef, Salt, Puppet

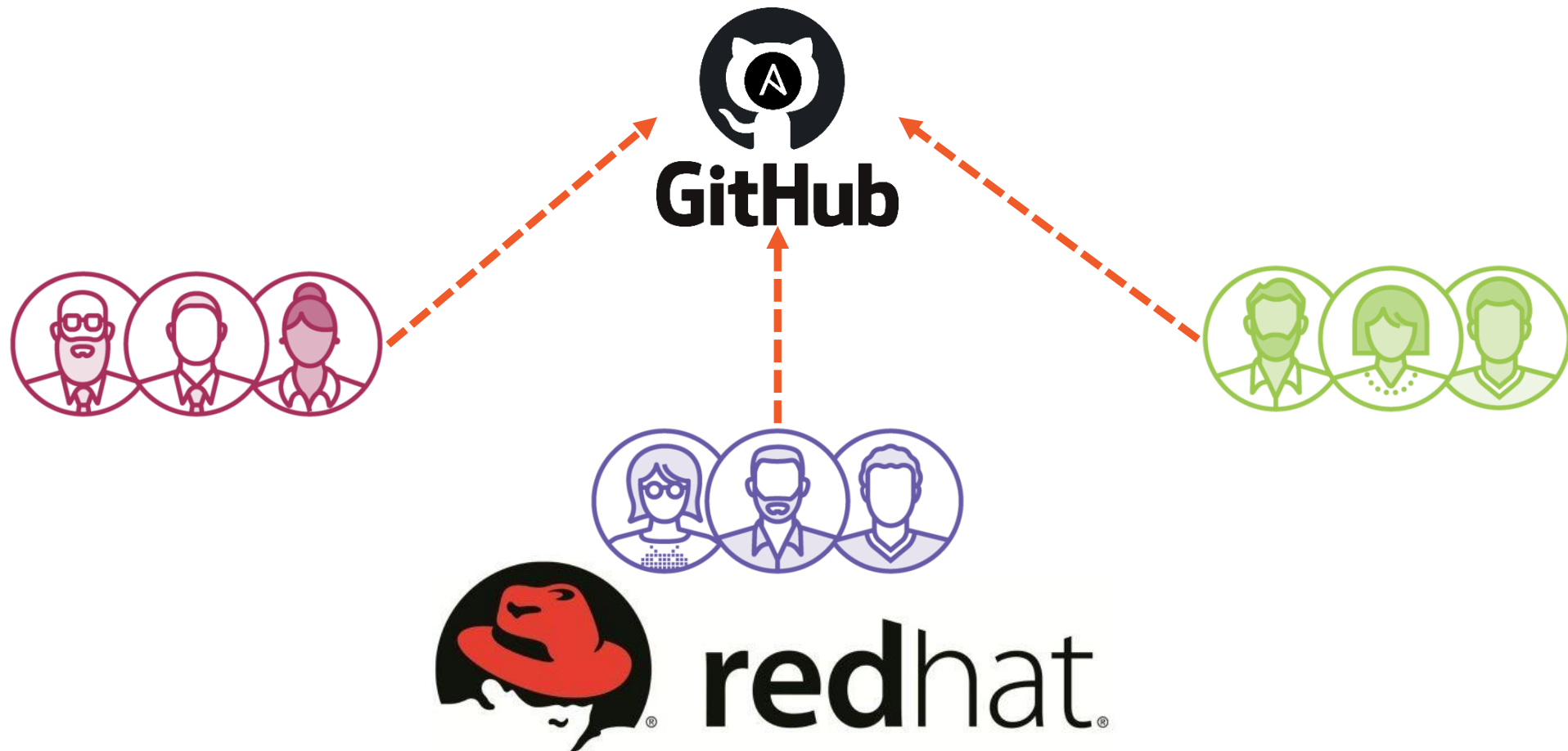
Ansible is “desired state”

Declarative: Tell Ansible what you want to happen and it takes care of the rest

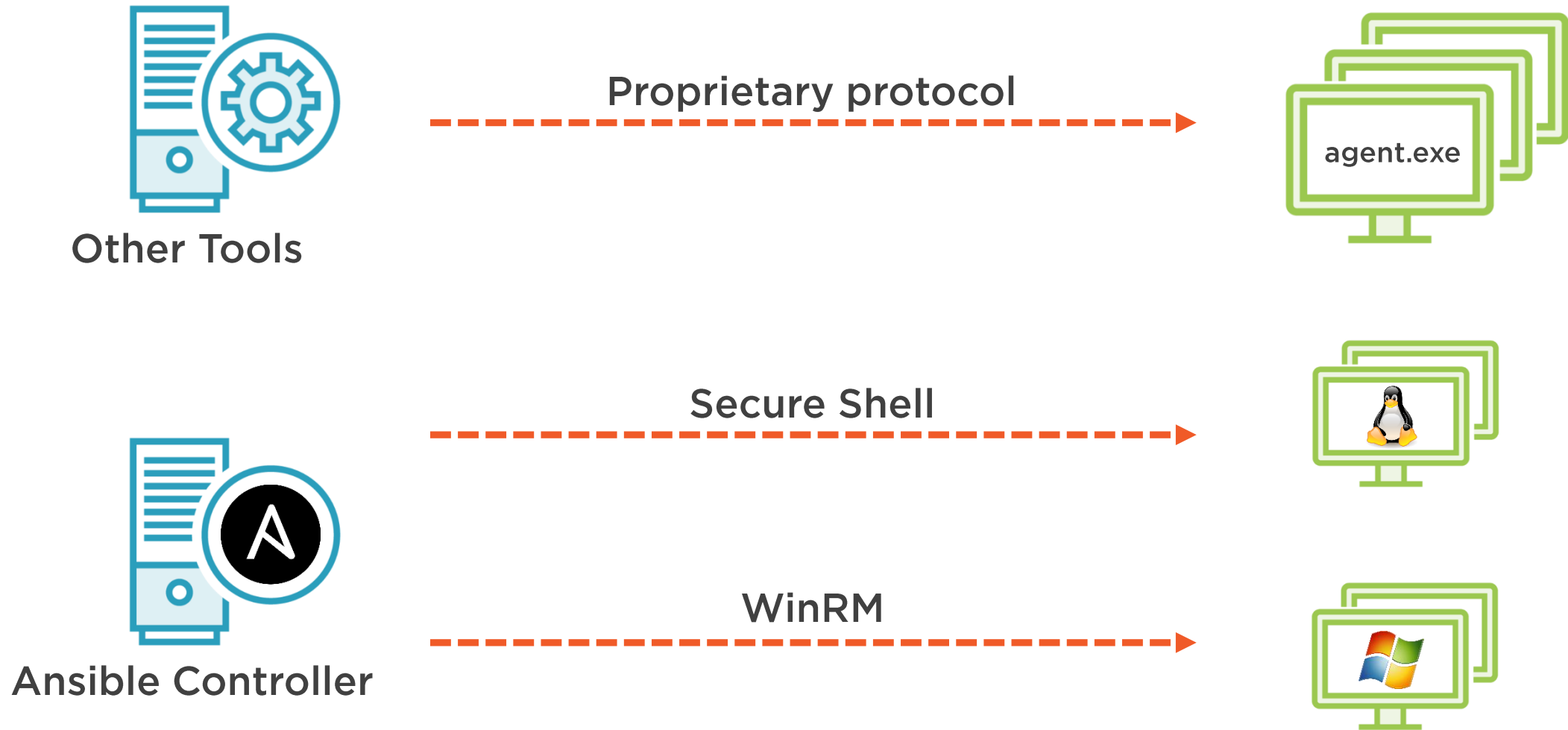
No need to tell Ansible how to perform a task



Ansible is Open Source



Ansible is Agent-less



Course Scenario



You're running this show!



Internal web application used for project and timeline tracking



You work for Globomantics and it's a big important company



We need to configure a mix of web and database servers



First We Need to Install Ansible



debian



Windows 10



Demo



Install Ansible on a Debian-based Linux distribution using apt-get

If you're not using Linux, you can skip to the next demonstration



Demo



Install Ansible on Windows 10

Assumes:

- Most recent build of Windows 10
- Windows Services for Linux installed
- Ubuntu (or other Debian-based distribution) installed



Ansible Windows User Setup



Ansible needs to know which user to authenticate as



Globomantics uses Active Directory so we'll configure a user on the domain controller



If you're using an environment without Active Directory, there are only a few changes



Demo

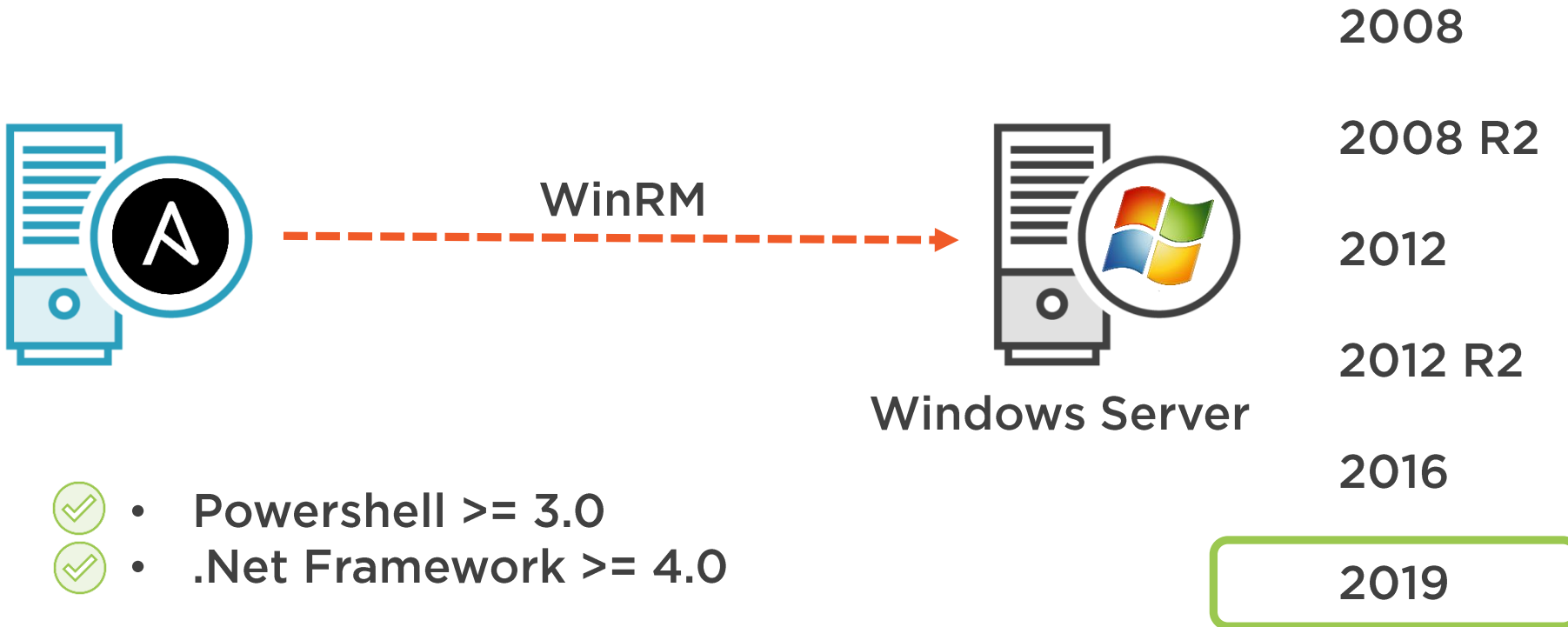


Create an Active Directory Ansible service user

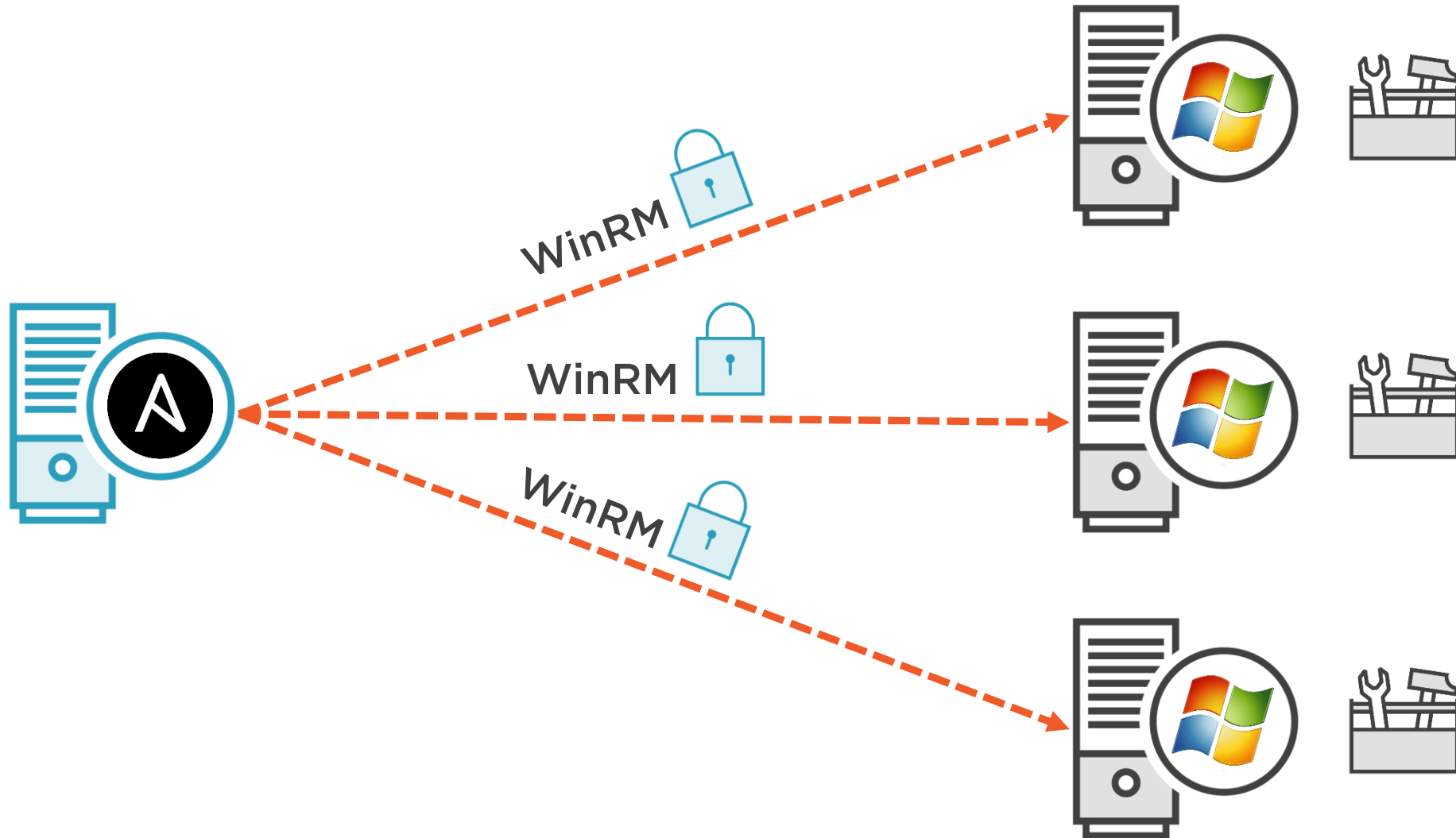
Not recommended to use the domain administrator account



Prepare Windows Targets



WinRM Configuration



WinRM Configuration

WinRM



Listeners

http
port 5985



https
port 5986

Authentication

Basic
Certificate
NTLM



Kerberos
CredSSP



Demo



Configure Windows 2019 Server target to use https and CredSSP

You could do this with a Group Policy in Active Directory



Demo



Configure Ansible controller with the user, protocol, and authentication method we setup on the Windows Server targets



Summary



Learned what Ansible is and how it's an agent-less, desired state configuration management system

Installed Ansible on our control system

Setup Active Directory and configured our Windows Server target hosts

