

# Technical documentation

## Description

This document aims to explain all parameters and how to adjust the settings to your needs. The provisioning is by design idempotent. You can run the provisioning over and over, the server will stay configured according to the config file.

Base-box: gusztavvargadr/windows-server (hosted on Atlas) OS: Windows Server 2019

## Config parameters

- name – Name of the base box
- box – name of the used base box, will be downloaded from Atlas
- box\_url – Download the base box from the specified URL instead of from Atlas
- ip – Fixed IP address, by default an IP will be assigned from DHCP
- netmask – Fixed subnet, by default, the network mask is 255.255.255.0
- gui – Whether to launch the virtualbox gui or not (true/false)
- memory – RAM assigned to vm
- cpus – Amount of cpus assigned to vm
- forwarded\_ports
  - guest – Guest port
  - host – Host port
- downloadpath – Location where all the downloads regarding the provisioning will be stored
- iis
  - username – IIS username
  - password – IIS password
- asp
  - asp45 – Install .NET Framework 4.5 (true/false)
  - dotnetcore21 – Install .NET Core 2.1 (true/false)
  - dotnetcore22 – Install .NET Core 2.2 (true/false)
  - dotnetcore30 – Install .NET Core 3.0 (true/false)
- webapp
  - demo – Whether to deploy a demo app or not (true/false)
  - publocation – Location where the website will be hosted on the server (e.g. C:\inetpub\wwwroot\)
  - packagelocation – Location of the app that will be deployed (e.g. C:\vagrant\app\app.zip)
- include\_linter – Whether to install PSScriptAnalyser or not (true/false)

## Provisioning steps

1. Run PSScriptAnalyser (Powershell Linting Tool)

2. Ensure download path for installation files exists (set by downloadpath in config file)
3. Install the IIS Windows Feature/Role
4. Download and install Webdeploy. Used to deploy the ASP.NET demo webapp
5. Install .NET support:
  - .NET Framework 3.5 will not be installed:
    - This is a common error and as of 02/10/2019 there is stil no fix
    - There is however a workaround
  - .NET Framework 4.5 installs like a normal Feature/Role
  - ASP .NET Core/.NET Core 2.1, 2.2 and 3.0 are installed by downloading the Runtime & Hosting Bundle
  - After the installation of .NET, the webservices are restarted
6. Configure IIS access to webroot location
7. Deploy the demo webapp:
  - Currently, we only supported to deploy using a .zip package
  - The complete package needs to be the project and the .Deploy.cmd and corresponding .xml files. For an example, check /Servers/Delta 2/test-env/provisioning/files/deploy-site
  - The configuration of the deploy package is focused on using the **Default Web Site**
8. Add binding for HTTPS by using the default certificate, generated by the host
9. Join the domain **red.local**