

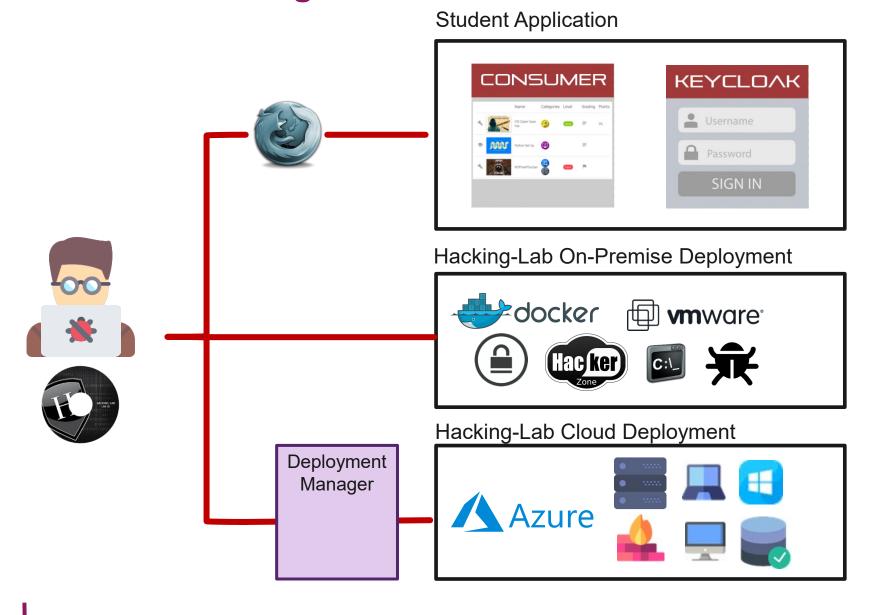
Overview

Agenda

- Introduction
- Terraform
- Deployment Manager
 - Deploying your Lab
 - Accessing your Lab
 - Destroying your Lab



Overview Hacking-Lab



Student Application

- Self-Registration
- Login
- Event Management

Simple Setup

- Vulnerable Systems
- Hackable Targets
- Dockers
- Files

Complex Setup

- Active Directory
- Firewall
- Proxy, Mailsystem
- SOC, Monitoring



FH OST Azure Subscription

Deployment Manager

WinAttackLab

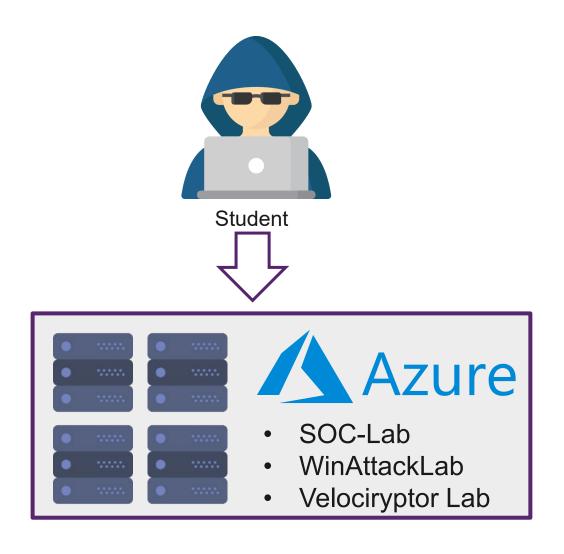
- Vulnerable Active Directory
- Red-Teaming

SOC Lab

- Vulnerable Active Directory
- Monitoring

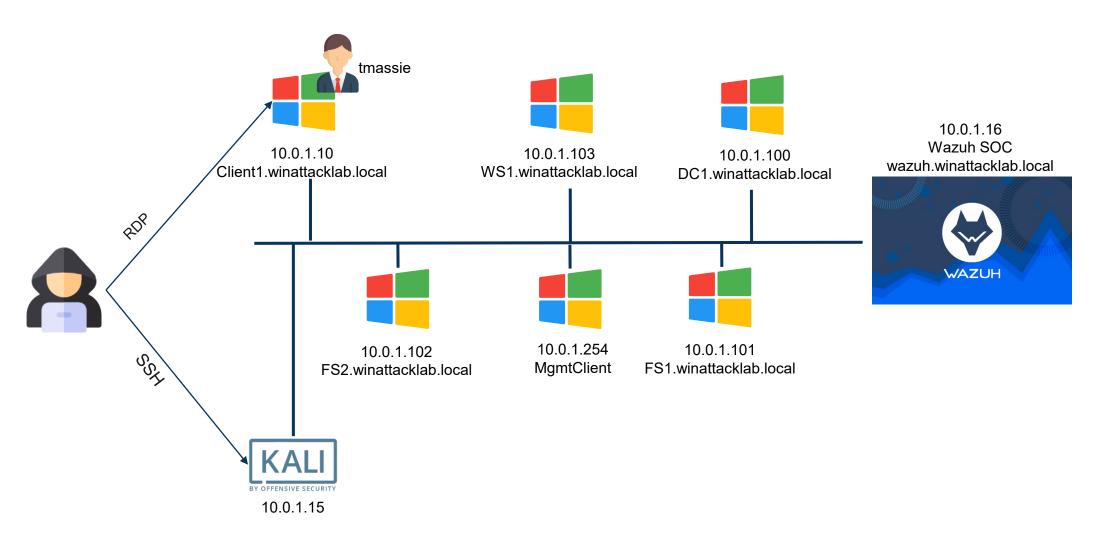
Velociraptor Lab

- Vulnerable Active Directory
- Hunting





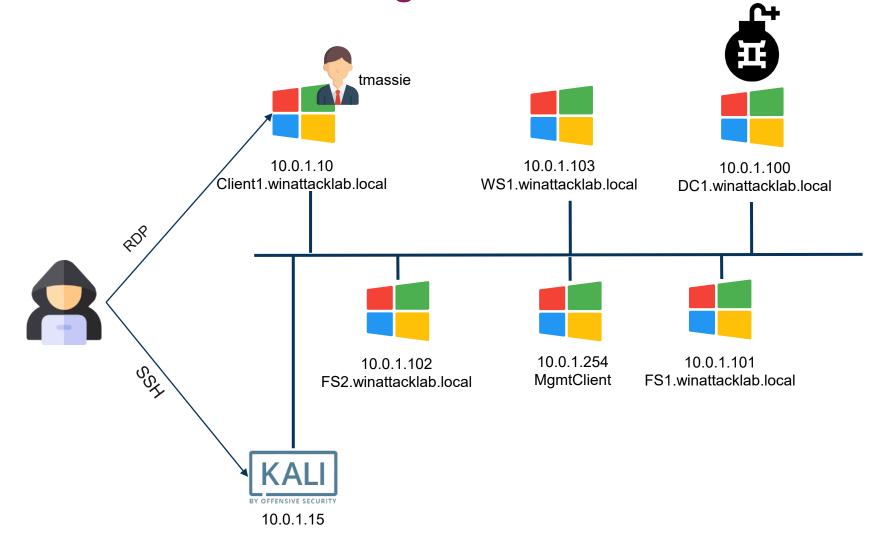
SOC Lab / Monitoring



10.0.1.0/24

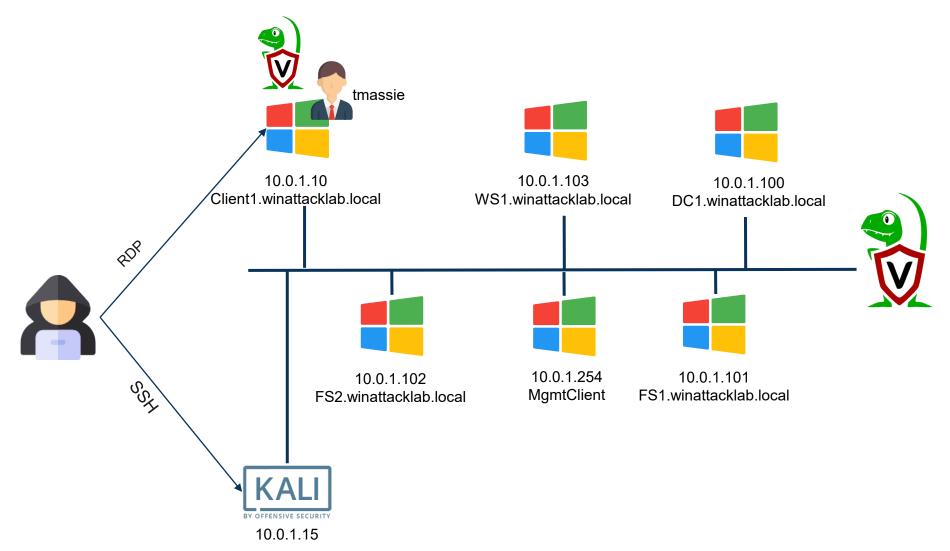
COMPASS® OST

WinAttackLab / Red-Teaming Lab



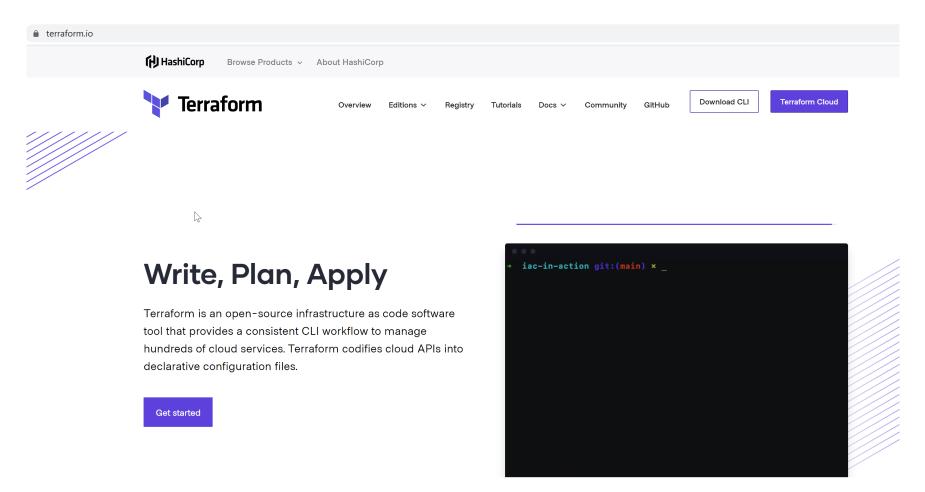
10.0.1.0/24

Velociraptor Lab / Hunting



10.0.1.0/24

Infrastructure as Code



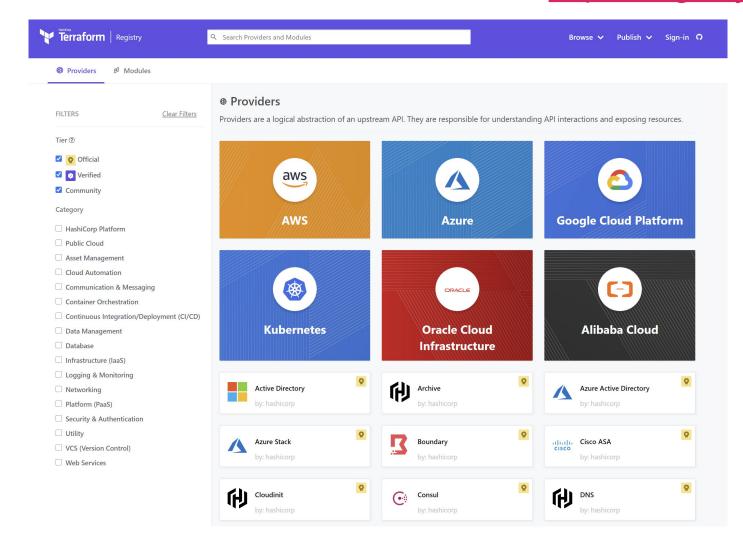


Infrastructure as Code Azure aws Code Provider Google Cloud Credentials



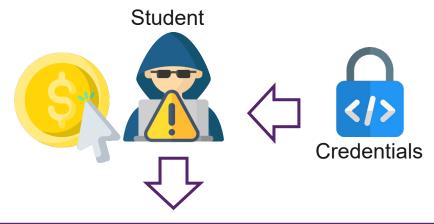
Providers

https://registry.terraform.io/browse/providers

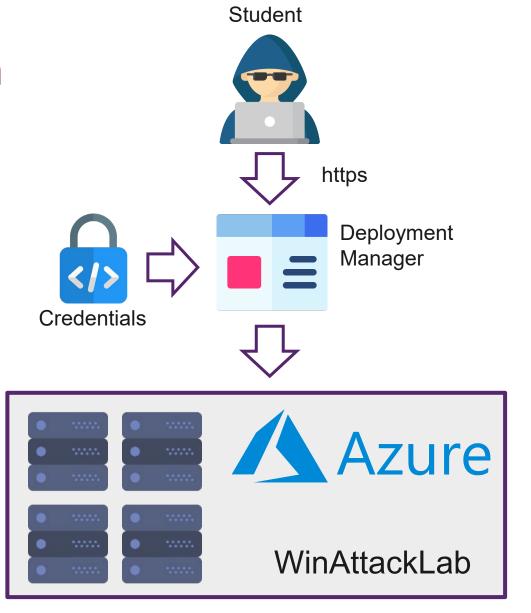




Credentials Azure Subscription

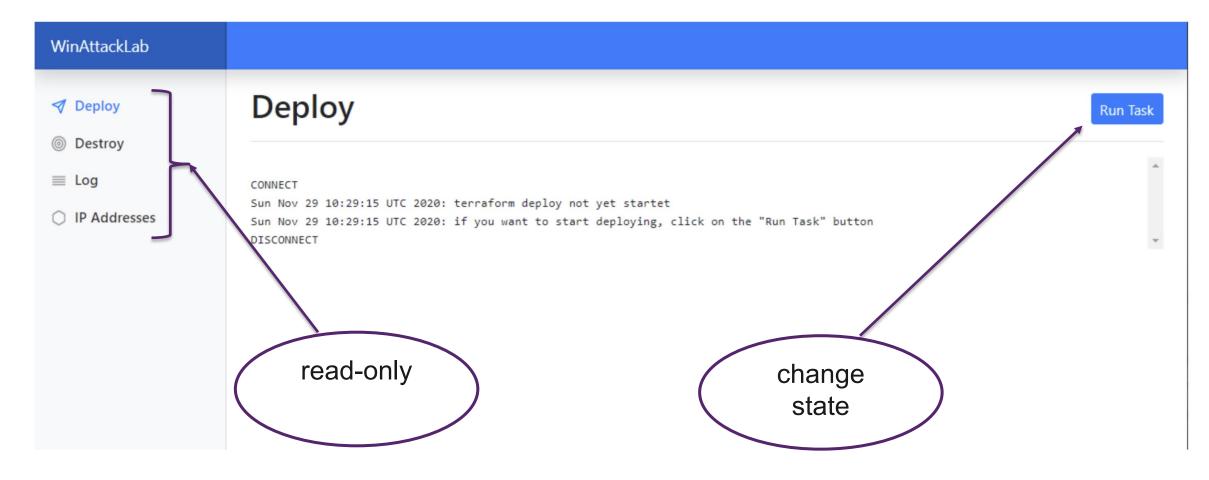








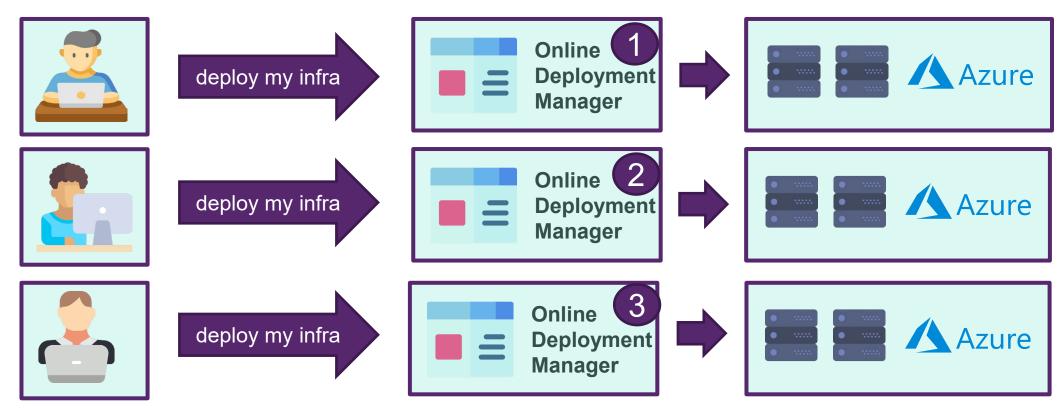
Deployment Manager





Deployment Manager

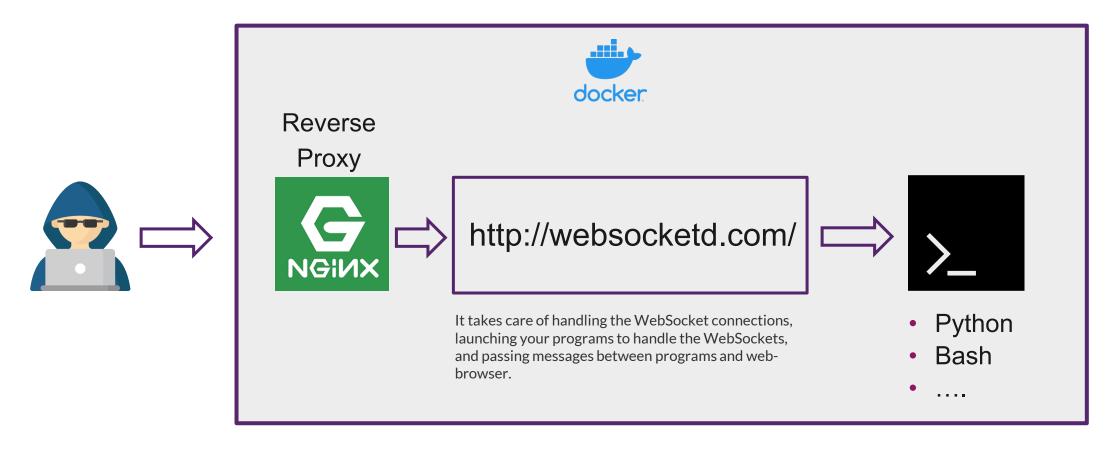
Scaling Up





Deployment Manager

Deployment Manager is based on «websocketd»

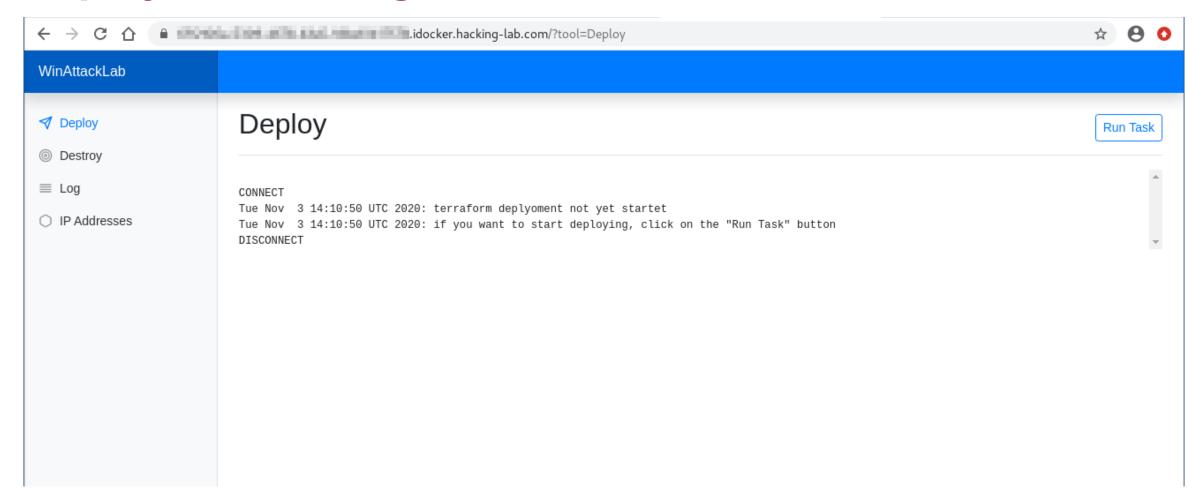




How to use the Deployment Manager

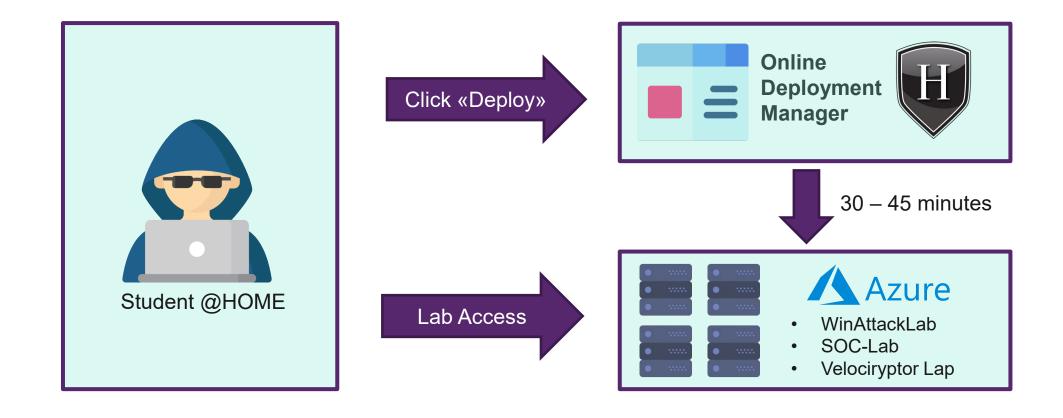


Deployment Manager





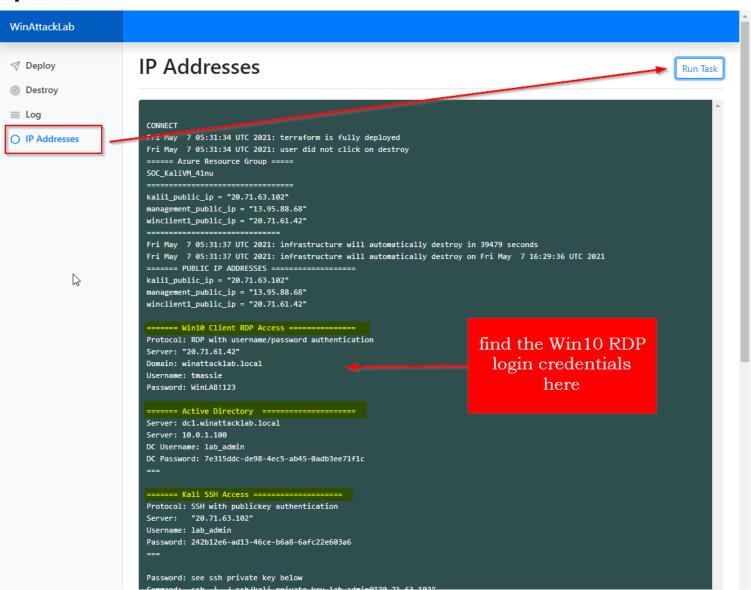
On-Demand Deployment





Login Credentials

- Click on «IP Addresses»
- Click on «Run Task»
- Login Credentials will be listed
 - Win10 Client (RDP)
 - Kali SSH
 - (others if required)





Access to the Lab

- Windows 10 Client
 - Access via RDP (use remmina on livecd)
 - IP: <get from deployment manager>
 - Username: tmassie
 - Password: <get pw from deployment manager>
 - Domain: winattacklab.local
 - Privileges: Regular domain account
- Linux Attack Host (Kali)
 - Access via SSH
 - IP: <get ip from deployment manager>
 - Username: lab admin
 - SSH private key: <get key from deployment manager>
 - SSH passphrase: <not set>
 - Privileges on Kali Linux: root (with sudo)



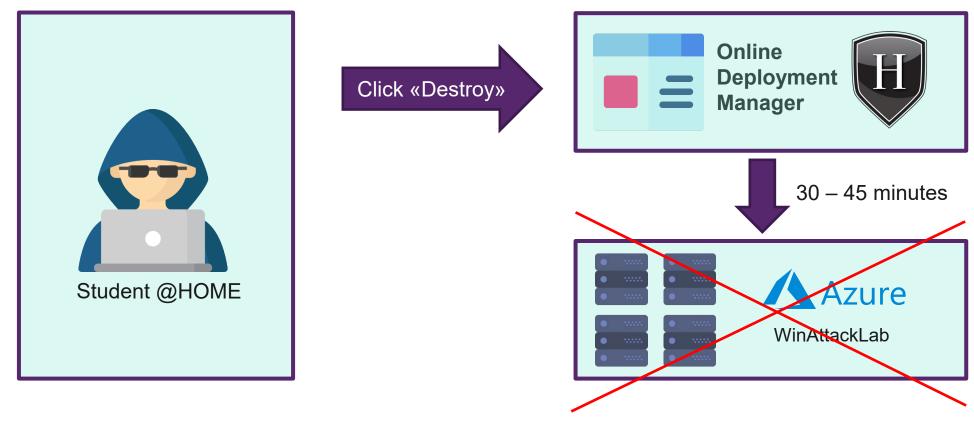
```
root@kali:~# ssh -l lab_admin -i ./ssh-key <ip>
Linux kali1 4.19.0-kali4-amd64 #1 SMP Debian 4.19.28-2
kali1 (2019-03-18) x86_64

[CUT BY COMPASS]

Last login: Fri Feb 7 05:42:11 2020 from 146.4.10.235
lab_admin@kali1:~$
```



On-Demand Shutdown

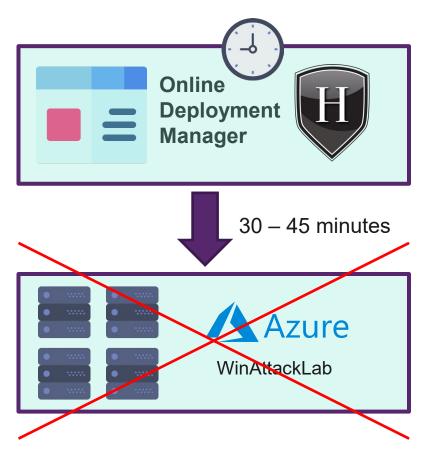


The lab will fully destroy and you will loose all your changes once it is destroyed



Automatic Shutdown after 8 hours

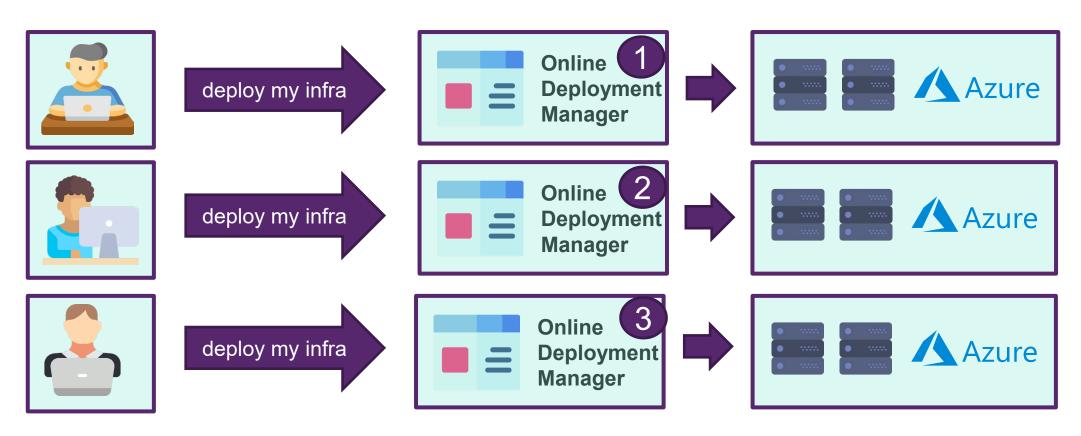




The lab will fully destroy and you will loose all your changes once it is destroyed



Deployment Manager per Team



Every team can use it's own lab – independend from the other teams!



2-er Team

- Please make teams (2-3 persons per team)
- Start the lab 1hour prior staring your lab session
- Start the lab via Deployment Manager
- Stop the lab at the end of your lab session (saving costs)
- Otherwise, the lab will automatically destroy after 8 hours (from when you clicked «Deploy»)

