

# AWS EC2 with RealityCapture

Regarding the cloud-based service, we've managed to get excellent results with AWS EC2 instance, for example some P3 type instance <https://aws.amazon.com/ec2/instance-types/p3/> .

Our tech department also ran tests with **p3.2xlarge** or **p3.8xlarge** and **G3** type instance <https://aws.amazon.com/ec2/instance-types/g3/> , with very good results, too. We would recommend **p3.8xlarge**, for **large data sets and best performance**.

Just to add we would **not recommend** using the Windows Server 2019 image on AWS since there are no NVidia drivers installed (you would need to do that manually).

So, I would choose the **Windows Server 2016** AWS image since you are pretty much good to run RealityCapture out of the box (**GPU drivers are already installed here**).

## How to set up a new instance for RCNode and RealityCapture

1. Start an instance from any image basically any Windows image (preferably newer ones with GRID or Tesla Nvidia driver installed if your desired instance type has graphic card) ... for g4dn instances a viable option is ami-0a2d78ec955a8e765
2. Connect via **Remote Desktop Connection** (you will need a **key-pair** (.pem) file for the **Key** with which instance was created)
  1. In **EC2 web console** -> **Instances**
  2. Click the instance and select **Connect**
  3. In the **RDP Client** tab, you have all the information you need
3. **Copy RC .msi** to instance, **install RC**
4. activate RC with a license
5. Allow 8000 inbound port in firewall
  1. **Windows Firewall** >> **Advanced Settings**
  2. In the **Inbound Rules** tab click **New Rule** (on the right side)
    1. Rule type: **Port**
    2. Protocol and Ports: **TCP**, Specific local ports: **8000**
    3. Action: **Allow the Connection**
    4. Profile: **All of them**
    5. Name: 8000 port allow
6. **PASSWORD SETTINGS**
  1. If you want to have different **passwords** for every instance (generated from KeyPair.pem file): stop instance with:

Open **Ec2LaunchSettings**, check if **AdministratorPassword** -> **Random** and then press **Shutdown without Sysprep**

1. If you want the same **password** (as was generated for this instance), stop the instance the common way
  1. If you want a custom password, open windows settings (Win >> Settings) and change Administrator password

If you want to create an AMI from this instance:

1. Stop the instance
2. Create AMI

In the EC2 management console, you have to setup Inbound/Outbound rules of Security Group that you will use with EC2.

Inbound rules:

IP version	Type	Protocol	Port range	Source	Description
IPv4	Custom TCP	TCP	8000	0.0.0.0/0	-
IPv4	RDP	TCP	3389	0.0.0.0/0	-
IPv4	HTTPS	TCP	443	0.0.0.0/0	-

Outbound rules:

IP version	Type	Protocol	Port range	Destination
IPv4	All traffic	All	All	0.0.0.0/0
IPv4	Custom TCP	TCP	8000	0.0.0.0/0
IPv4	HTTPS	TCP	443	0.0.0.0/0

## Unable to activate RealityCapture license on a Virtual Machine

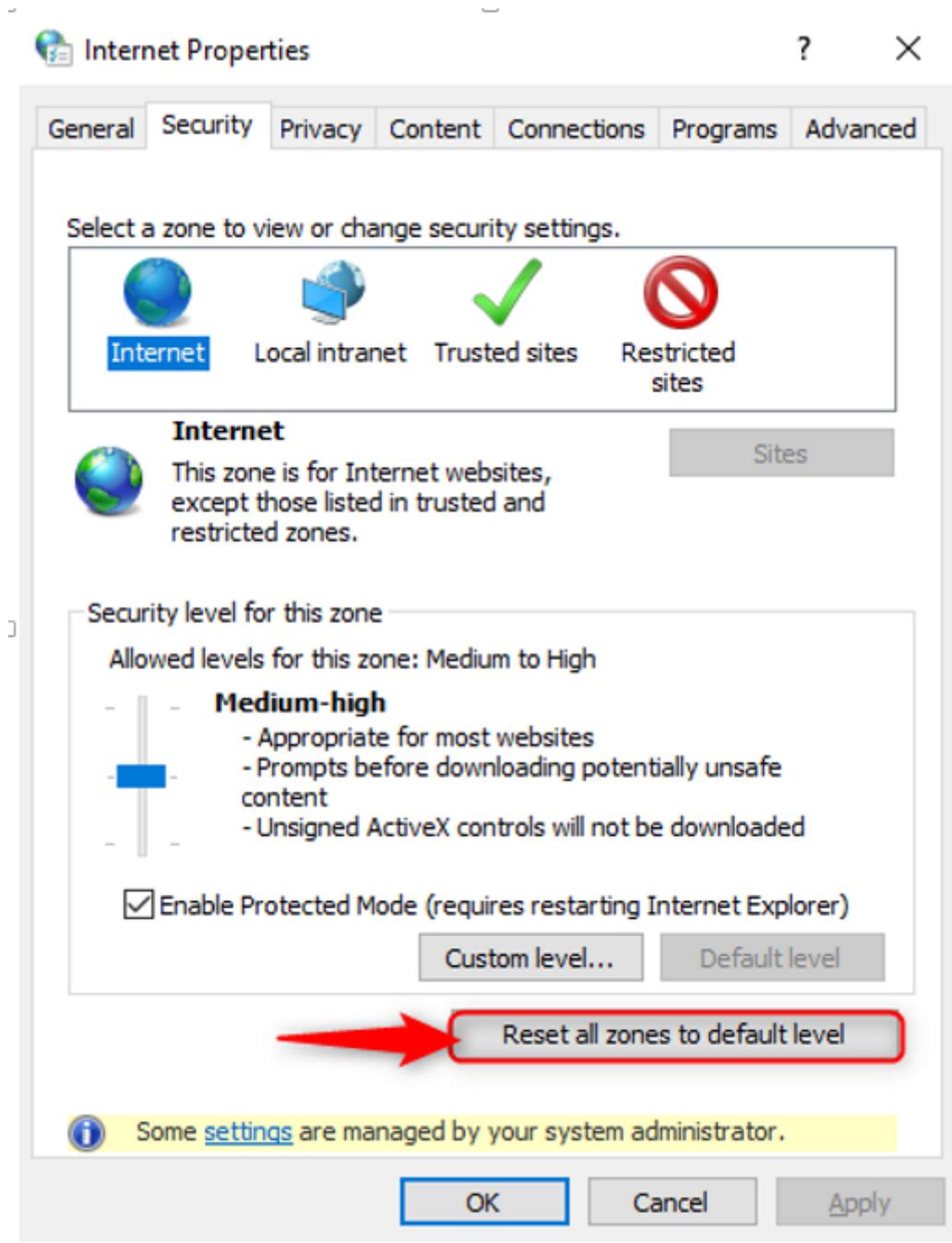
Please navigate to your Internet Explorer settings (regardless of which browser you actually use). Under its SECURITY tab you can find the TRUSTED SITES menu. Add <https://www.capturingreality.com> and <https://capturingreality.com>, and hit OK to apply.

Also make sure that the communication with capturingreality.com and [www.capturingreality.com](http://www.capturingreality.com) is enabled on ports 80 (HTTP) and 443 (HTTPS) in your firewall.

Please make sure that you have the latest version of Internet Explorer (IE) installed.

When you open the page [www.capturingreality.com](http://www.capturingreality.com) in IE, is it displayed correctly? Does any script error appear?

Also, please, reset all zones to default level as it is on this image (there you can see the option for adding trusted sites):



#### 安全

- 不将加密的页存盘
- 使用 SSL 3.0
- 使用 TLS 1.0
- 使用 TLS 1.1
- 使用 TLS 1.2