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Project1:

Deploying a web server In windows instance

Launch instance wizard | EC2 M...

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Amazon RDS

Amazon RDS makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server databases on AWS. Aurora is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases.
Learn more about RDS

Launch a database using RDS

Microsoft Windows Server 2019 Base - ami-0239d3998515e9ed1

Windows

Free tier eligible

Microsoft Windows 2019 Datacenter edition. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (x86)

Microsoft Windows Server 2019 Base with Containers - ami-0860285e3eeb23175

Windows

Free tier eligible

Microsoft Windows 2019 Datacenter edition with Containers. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (x86)

Microsoft Windows Server 1909 Core Base - ami-0a631ae0cabf56a92

WindowsMicrosoft Windows Server 1909 Semi-Annual Channel release [English]

Select

Feedback English (US)

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Launch instance wizard | EC2 M...

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

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Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

Feedback English (US)

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The screenshot shows the 'Step 3: Configure Instance Details' page of the AWS Launch Instance Wizard. The page is titled 'Step 3: Configure Instance Details' and includes a sub-header 'Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.' The page contains several configuration options:

- Number of instances:** 1 (with a 'Launch into Auto Scaling Group' link).
- Purchasing option:** ☐ Request Spot instances.
- Network:** vpc-712c8e1a (default) (with a 'Create new VPC' link).
- Subnet:** No preference (default subnet in any Availability Zone) (with a 'Create new subnet' link).
- Auto-assign Public IP:** Use subnet setting (Enable).
- Placement group:** ☐ Add instance to placement group.
- Capacity Reservation:** Open.
- Domain join directory:** No directory (with a 'Create new directory' link).
- IAM role:** New IAM role (with a 'Create new IAM role' link).

At the bottom of the page, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Storage'.

The screenshot shows the 'Step 4: Add Storage' page of the AWS Launch Instance Wizard. The page is titled 'Step 4: Add Storage' and includes a sub-header 'Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.' The page contains a table with storage device settings:

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0fce5b6ed98763b3e	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

Below the table, there is a button 'Add New Volume' and a text box with the following text: 'Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.'

At the bottom of the page, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'.

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The screenshot shows the AWS Management Console's 'Launch instance wizard' for an EC2 instance. The wizard is at Step 5: Add Tags. The user has entered a tag with the key 'Name' and the value 'Windows'. The tag is applied to both the instance and the volume. The 'Review and Launch' button is visible at the bottom right.

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	Value	Instances	Volumes
Name	Windows	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name: launch-wizard-1

Description: launch-wizard-1 created 2020-08-21T22:14:34.662+05:30

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0 ::0	e.g. SSH for Admin Desktop

[Add Rule](#)

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

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Launch instance wizard | EC2 M... x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instances' security. Your security group, launch-wizard-1, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

Microsoft Windows Server 2019 Base - ami-0239d3998515e9ed1

Free tier eligible Microsoft Windows 2019 Datacenter edition, [English]
Root Device Type: ebs Virtualization type: hvm

If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the [License Mobility Form](#). Don't show me this again

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro		1	1	8	Yes	Low to Moderate

[Cancel](#) [Previous](#) [Launch](#)

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Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair name
OmkarLetsUpgrade

[Download Key Pair](#)

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

[Cancel](#) [Launch Instances](#)

OmkarLetsUpgrade.pem Show all

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The screenshot displays the AWS Management Console interface. The top section shows the 'Launch instance wizard' with a status message: 'Your instances are now launching'. Below this, there is a section titled 'How to connect to your instances' with instructions and links. The bottom section shows the 'Instances' page with a table of running instances.

Launch Status

✓ Your instances are now launching
The following instance launches have been initiated: i-0ca109700a8235c7f [View launch log](#)

ℹ Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

- [How to connect to your Windows instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Amazon EC2: Discussion Forum](#)

Instances | EC2 Management Console

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-0ca109700a8235c7f;sort=instanceId

Launch Instance | Connect | Actions

search: i-0ca109700a8235c7f Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Windows	i-0ca109700a8235c7f	t2.micro	us-east-2b	running	Initializing	None	ec2-18-218-155-55.us-east-2.compute.amazonaws.com	18.218.155.55	-

Instance: i-0ca109700a8235c7f (Windows) Public DNS: ec2-18-218-155-55.us-east-2.compute.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID: i-0ca109700a8235c7f
Instance state: running
Instance type: t2.micro

Public DNS (IPv4): ec2-18-218-155-55.us-east-2.compute.amazonaws.com
IPv4 Public IP: 18.218.155.55
IPv6 IPs: -

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The image shows two screenshots of the AWS Management Console. The top screenshot displays a list of EC2 instances with the following details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Windows	i-0ca109700a8235c7f	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-218-155-55.us-east-2.compute.amazonaws.com	18.218.155.55	-

Below the table, the details for the selected instance (i-0ca109700a8235c7f) are shown:

- Instance ID: i-0ca109700a8235c7f
- Instance state: running
- Instance type: t2.micro
- Public DNS (IPv4): ec2-18-218-155-55.us-east-2.compute.amazonaws.com
- IPv4 Public IP: 18.218.155.55
- IPv6 IPs: -

The bottom screenshot shows the 'Connect to your instance > Get Password' dialog box. It provides instructions on how to retrieve the password using a standalone RDP client or Session Manager. The Key Name is 'OmkarLetsUpgrade.pem'. The Key Pair Path is 'Choose File' and 'OmkarLetsUpgrade.pem'. The dialog also shows the RSA Private Key content:

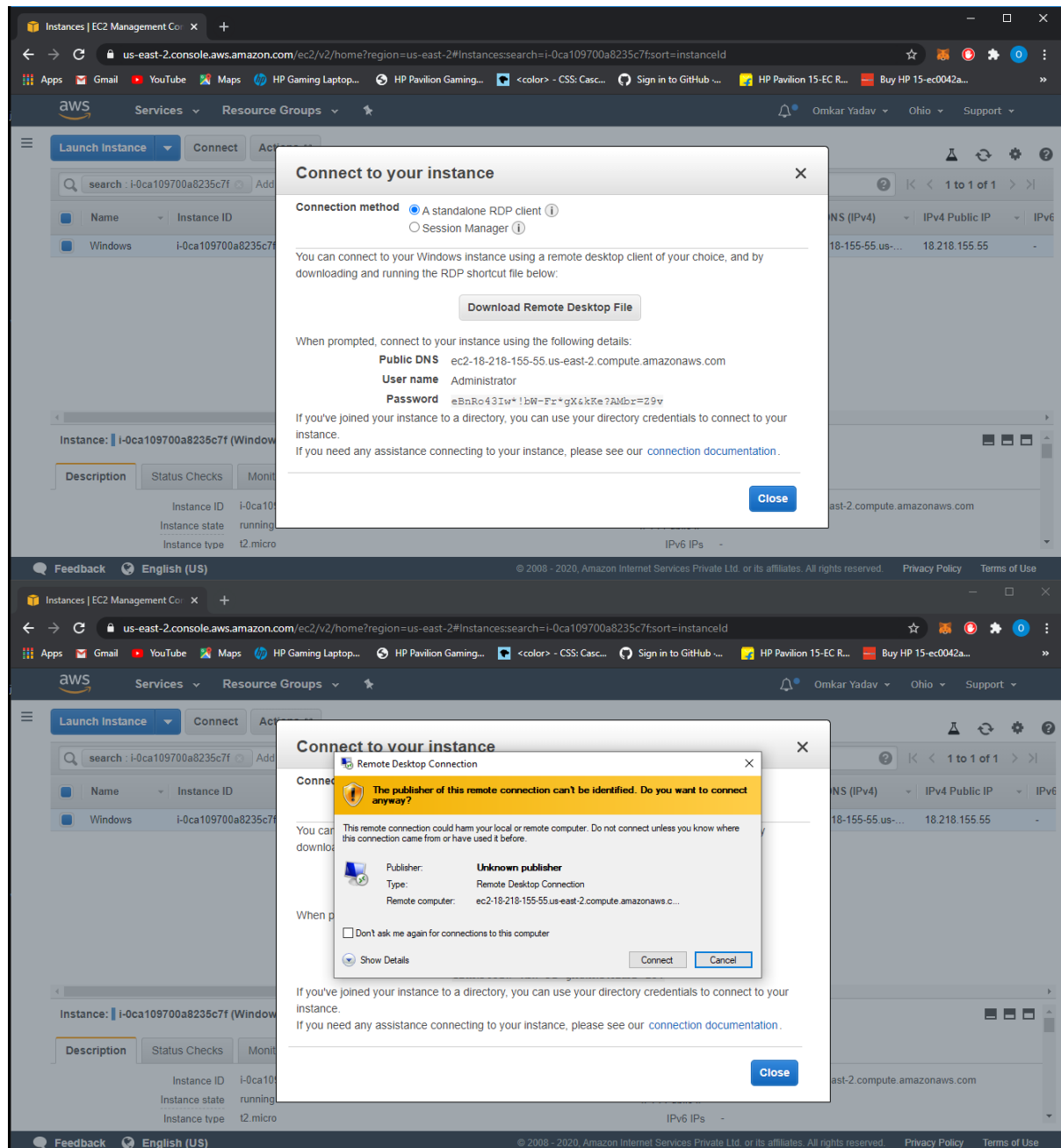
```
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAhs7SYHPFcULJc2zjYAFaDDIWLK7gbn3XCq4KzD8GFg4QagiNpITjIBF1R
W0z8HJafdwJL9LsMKpZdtDKkHa3AvziYPIVWaxK4M7vjuggtVOAXsWGIVKtNuyD4ZWOHQWw
ILGmNYWERoYAtbLhvcBE3KrET5Ac6Sh+5GMx2KJHXIA62Y+WWNDvC3Vgsj52mxnC7wZAJR78V
U
6gYWTQZHNISZx0+tvAVezFI3AZqa/WRXfoSc5Nvc9AilHuytgeKkSniNonq0TGqB/vUGRMR/yRM
-----
```

The dialog includes a 'Decrypt Password' button and 'Back' and 'Close' buttons at the bottom.

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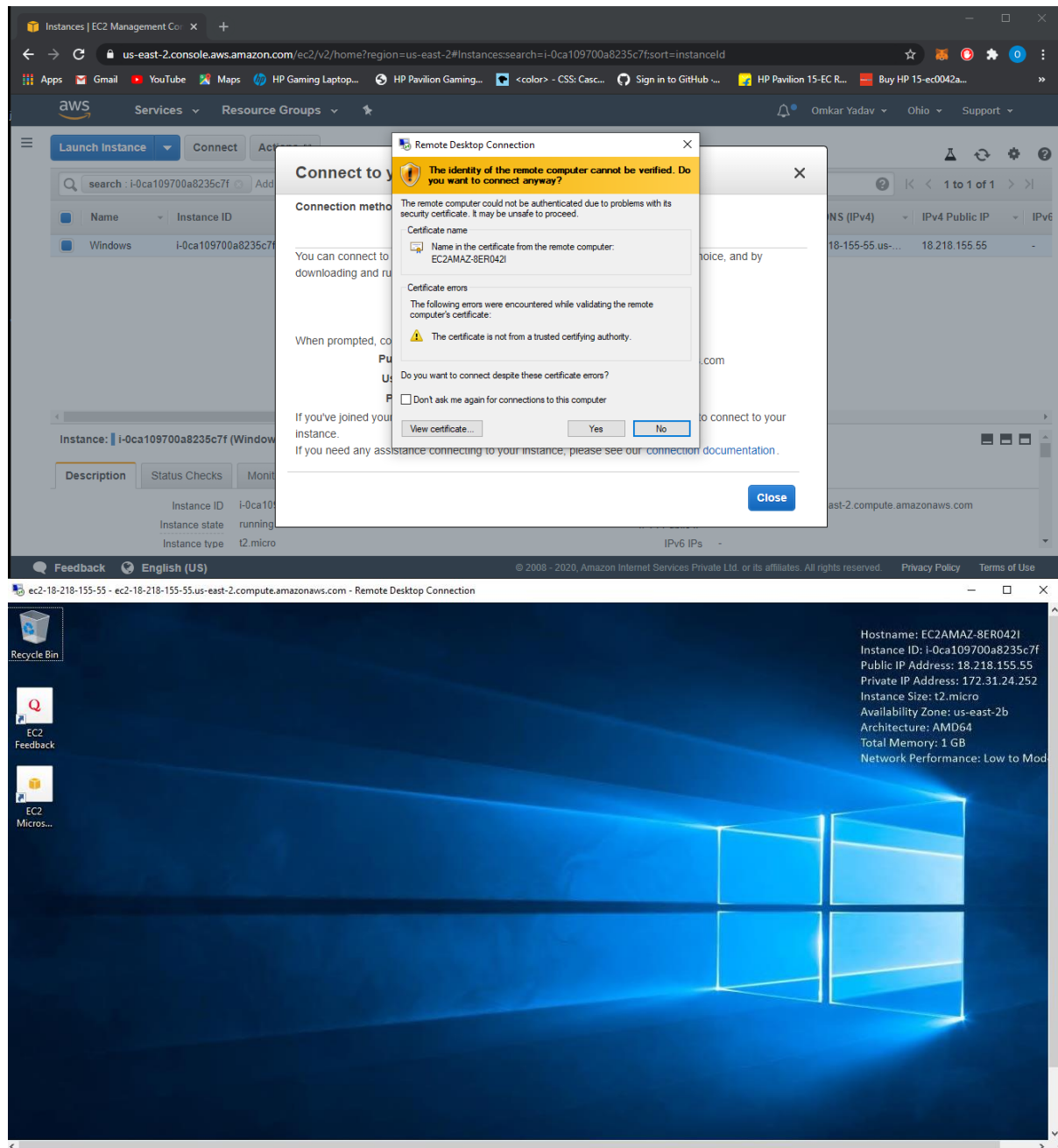
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ec2-18-218-155-55 - ec2-18-218-155-55:us-east-2.compute.amazonaws.com - Remote Desktop Connection

The screenshot displays a Remote Desktop Connection to a Windows instance. The main window shows a Windows 10 desktop with the Start menu open. A PowerShell window is running the command `Install-WindowsFeature -name Web-Server -IncludeManagementTools`. The output shows the command was successful, with a restart needed. The taskbar shows the 'EC2' icon.

Host Information:

- Hostname: EC2AMAZ-8ER042I
- Instance ID: i-0ca109700a8235c7f
- Public IP Address: 18.218.155.55
- Private IP Address: 172.31.24.252
- Instance Size: t2.micro
- Availability Zone: us-east-2b
- Architecture: AMD64
- Total Memory: 1 GB
- Network Performance: Low to Mod

AWS Console Details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
Windows	i-0ca109700a8235c7f	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-218-155-55 us-...	18.218.155.55	-

Instance Details:

- Instance ID: i-0ca109700a8235c7f
- Instance state: running
- Instance type: t2.micro
- Public DNS (IPv4): ec2-18-218-155-55.us-east-2.compute.amazonaws.com
- IPv4 Public IP: 18.218.155.55
- IPv6 IPs: -
- Elastic IPs: -

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