Photon Unity Network Authentication

Arthur Pai

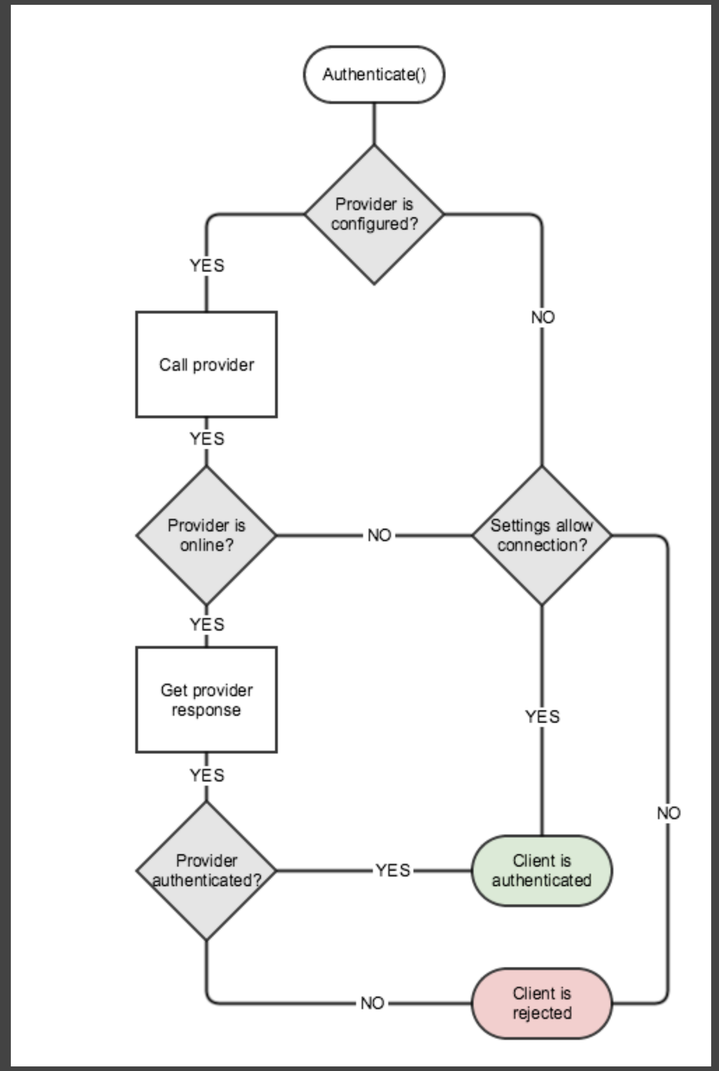
https://github.com/ispan-umvr09/tank-server

https://github.com/ispan-umvr09/tanks

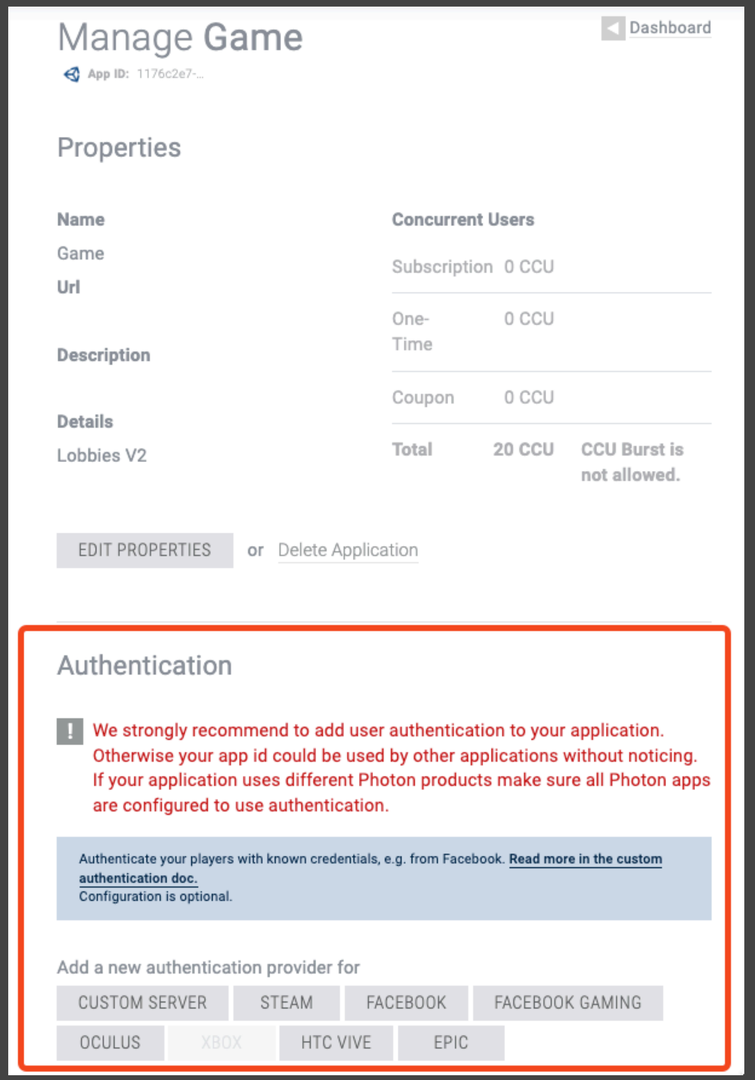
登入機制

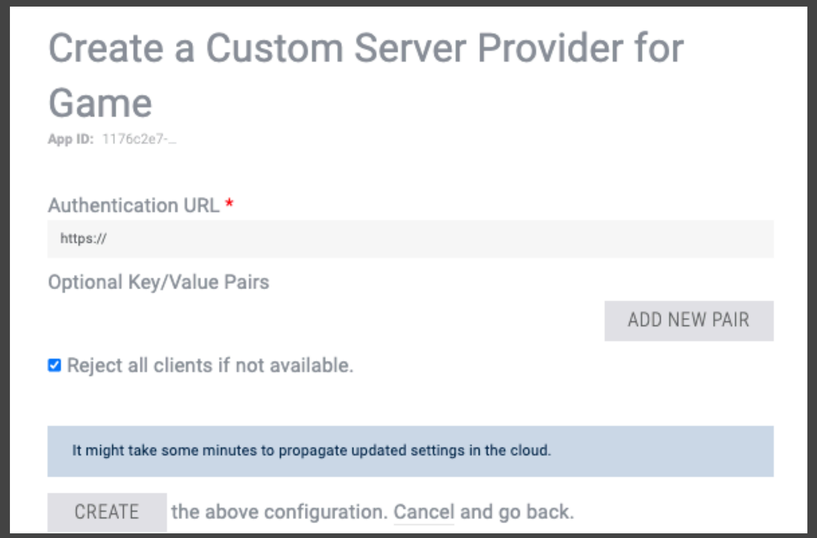
- Custom Authentication
- Facebook
- Steam：https://partner.steamgames.com/steamdirect
- VIVEPORT：https://developer.viveport.com/console
- Oculus：https://developer.oculus.com/

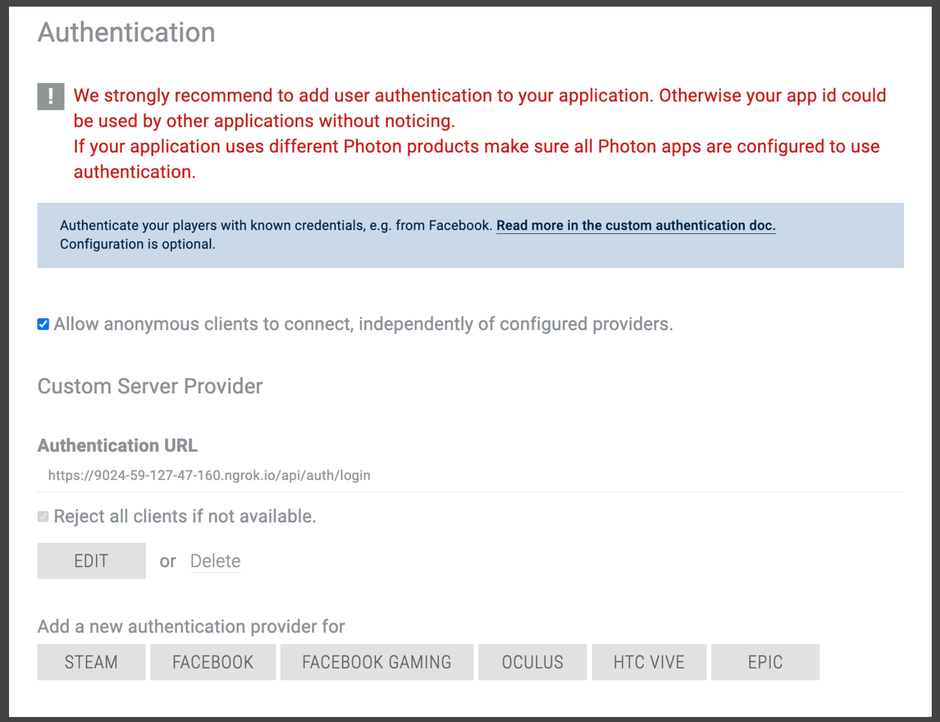
Photon
登入流程


Authenticate()
Provider is configured?
YES
NO
Call provider
YES
Provider is online?
NO
Settings allow connection?
YES
Get provider response
YES
YES
NO
Provider authenticated?
YES
Client is authenticated
NO
Client is rejected

Photon Applications' Dashboard







Provider 參數

- Authentication URL
  - 後端登入伺服器的 URL
- Optional Key/Value Pairs
  - 要讓 Photon 傳給後端伺服器的敏感參數
  - 例如：API public key - 用來驗證呼叫後端登入API的伺服器是不是 Photon
- Reject all clients if not available
  - 如果登入後端伺服器離線時，是否要讓玩家無法登入(直接拒絕登入)
- Allow anonymous clients to connect, independently of configured providers.
  - 是否要讓匿名玩家連線

Client Side

- Unity Code
  - Server 端會收到 ?user={user}&pass={pass} 的 query string
  - pass 必須要經過處理，因為 query string 是明碼的形式
    - 例如使用 public key 作加密

```
var authValues = new AuthenticationValues();
authValues.AuthType = CustomAuthenticationType.Custom;
authValues.AddAuthParameter("user", userId);
authValues.AddAuthParameter("pass", pass);
PhotonNetwork.AuthValues = authValues;

PhotonNetwork.ConnectUsingSettings();
```

  - 登入結果

```
public override void OnCustomAuthenticationFailed(string debugMessage)
{
    // The 'debugMessage' could be what the authentication provider returned.
}
```

Server Side

- Server 端收到後，應該去資料庫檢查是否有這個使用者以及驗證密碼正不正確，然後回傳下面格式
  - 登入成功：{ "ResultCode": 1, "UserId": <userId> }
  - 登入失敗：{ "ResultCode": 2, "Message": "Authentication failed. Wrong credentials." }
  - 參數錯誤：{ "ResultCode": 3, "Message": "Invalid parameters." }

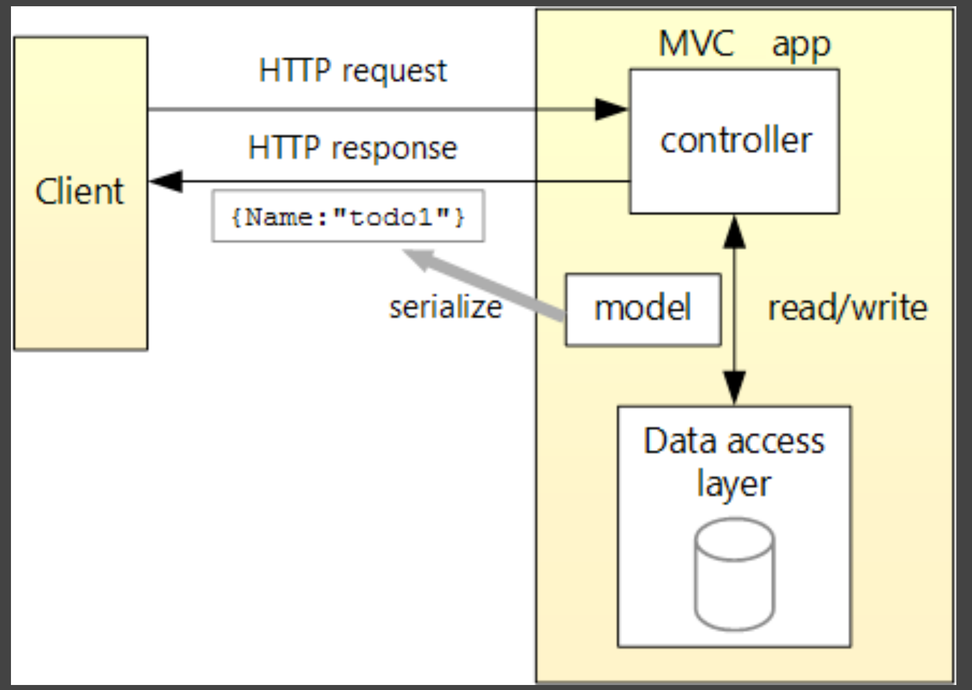
練習 10分鐘

Login Example

Server Side

Login Example
ASP.NET Core Project

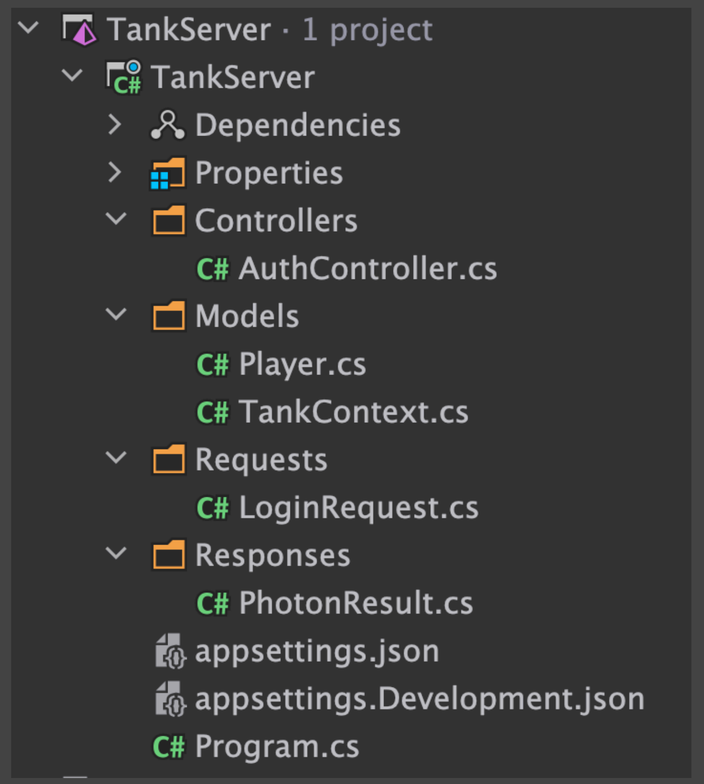
- 開啟 Visual Studio
- 從 [檔案] 功能表選取 [新增] >[專案] 。
- 在搜尋方塊中輸入 *Web API* 。
- 選取ASP.NET Core Web API範本，然後選取 [下一步]。
- 在 [設定新專案] 對話方塊中，
  將專案命名為 *TodoApi* ，然後選取 [下一步]。
- 在 [**其他資訊]** 對話方塊中：
  - 確認 Framework 為 .NET 6.0 (長期支援) 。
  - 確認核取 [使用控制器] 核取方塊， (取消核取以使用最少的 API) 。
  - 選取 [建立] 。



https://docs.microsoft.com/zh-tw/aspnet/core/tutorials/first-web-api?view=aspnetcore-6.0&tabs=visual-studio

Login Example
ASP.NET Core Project

- 安裝 NuGet package：Microsoft.EntityFrameworkCore.InMemory
  - 從 [工具] 功能表中，選取 [NuGet 套件管理員 > 管理方案的 NuGet 套件]。
  - 選取 [**流覽**] 索引標籤，然後在搜尋方塊中輸入 Microsoft.EntityFrameworkCore.InMemory 。
  - 選取 Microsoft.EntityFrameworkCore.InMemory 左窗格中的 。
  - 選取右窗格中的 **[專案**] 核取方塊，然後選取 [**安裝**]。



練習 5分鐘

Login Example
Player.cs

```
namespace TankServer.Models;

public class Player
{
  public long Id { get; set; }
  public string? Name { get; set; }
  public string? Password { get; set; }
  public int Score { get; set; }
}
```

Login Example
TankContext.cs

```
using Microsoft.EntityFrameworkCore;

namespace TankServer.Models;

public class TankContext : DbContext
{
  public TankContext(DbContextOptions<TankContext> options) : base(options)
  {
  }

  public DbSet<Player> Players { get; set; } = null!;
}
```

Login Example
Program.cs

```
using Microsoft.EntityFrameworkCore;
using TankServer.Models;

var builder = WebApplication.CreateBuilder(args);

// Add services to the container.

builder.Services.AddControllers();

builder.Services.AddDbContext<TankContext>(opt => opt.UseInMemoryDatabase("TankDB"));

// Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
builder.Services.AddEndpointsApiExplorer();
builder.Services.AddSwaggerGen();

var app = builder.Build();

// Configure the HTTP request pipeline.
if (app.Environment.IsDevelopment())
{
    app.UseDeveloperExceptionPage();
    app.UseSwagger();
    app.UseSwaggerUI();
}

app.UseHttpsRedirection();

app.UseAuthorization();

app.MapControllers();

app.Run();
```

Login Example
PhotonResult.cs

```
namespace TankServer.Responses;

public class PhotonResult
{
  public int ResultCode { get; set; }

  public string? Message { get; set; }

  public long UserId { get; set; }
}
```

Login Example
Login API

```
namespace TankServer.Controllers;

[Route("api/[controller]")]
[ApiController]
public class AuthController : ControllerBase
{
  private readonly TankContext _context;

  public AuthController(TankContext context)
  {
    _context = context;
  }

  // Get: api/auth/login
  [HttpGet("login")]
  public async Task<PhotonResult> Login(string user, string pass)
  {
    // 判斷參數是否有值
    if (string.IsNullOrWhiteSpace(user) || string.IsNullOrWhiteSpace(pass))
    {
      return new PhotonResult
      {
        ResultCode = 3,
        Message = "Invalid parameters."
      };
    }
```

Login Example
Login API

```
var player = await _context.Players.Where(p => p.Name == user).FirstOrDefaultAsync();

// 產生 password 的 hash 值
var passwordHash = GetSha256Hash(pass);

if (player != null)
{
  // 判斷 hash 後的密碼是一致
  if (player.Password != passwordHash)
  {
    return new PhotonResult
    {
      ResultCode = 2,
      Message = "Credentials incorrect."
    };
  }

  return new PhotonResult
  {
    ResultCode = 1,
    UserId = player.Id
  };
}
```

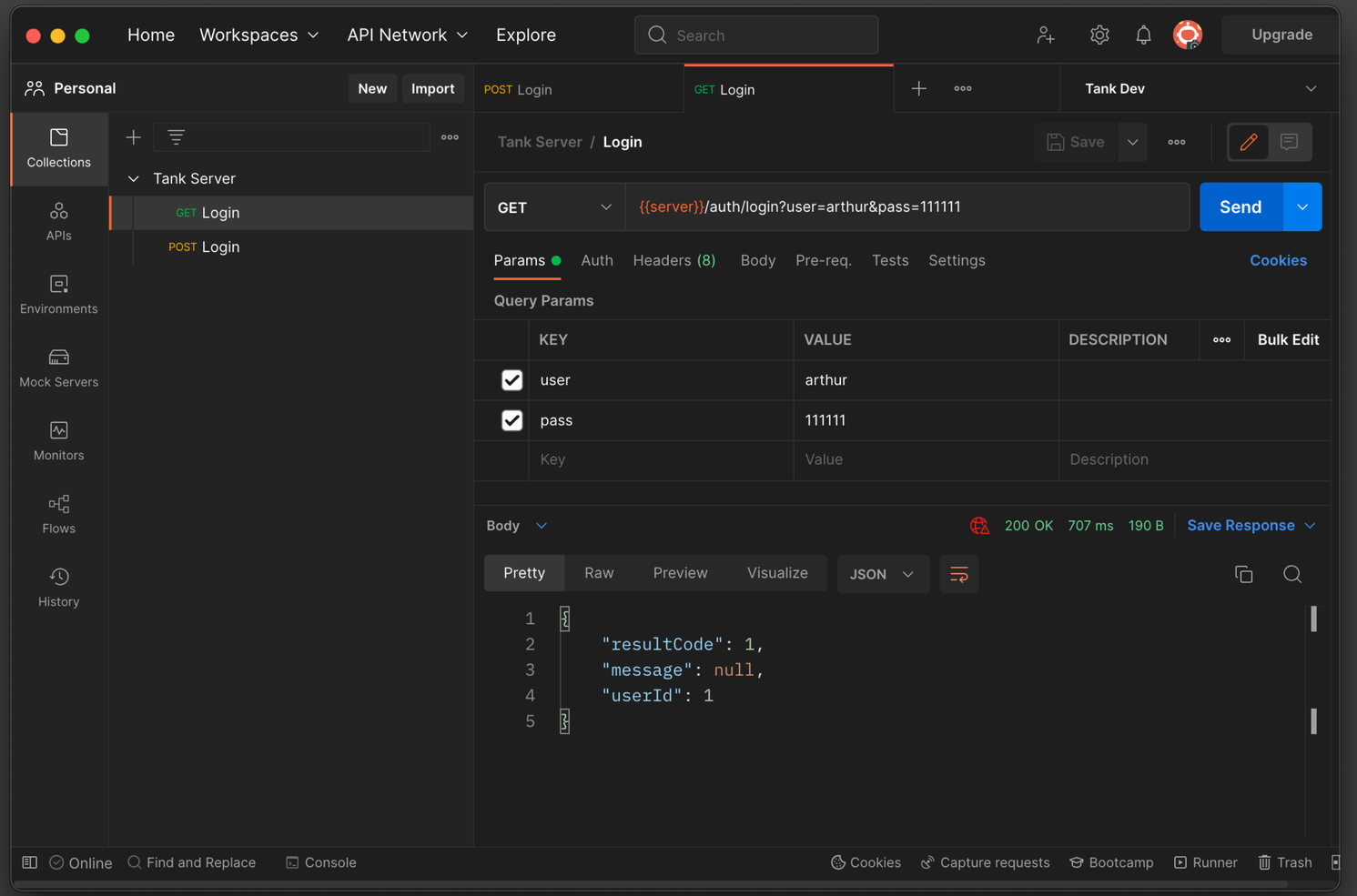
Login Example
Login API

```
    // 如果玩家不存在，則幫他註冊
    player = new Player
    {
      Name = user,
      Password = passwordHash
    };
    await _context.Players.AddAsync(player);

    // 儲存到資料庫
    await _context.SaveChangesAsync();

    return new PhotonResult
    {
      ResultCode = 1,
      UserId = player.Id
    };
}
```

Login Example
Login API

```
  [NonAction]
  private static string GetSha256Hash(string? input)
  {
    if (input == null)
      throw new ArgumentNullException(nameof(input));

    using var hashAlgorithm = SHA512.Create();
    var byteValue = Encoding.UTF8.GetBytes(input);
    var byteHash = hashAlgorithm.ComputeHash(byteValue);
    return Convert.ToBase64String(byteHash);
  }
}
```

Login Example
Test API using Postman



https://www.postman.com/

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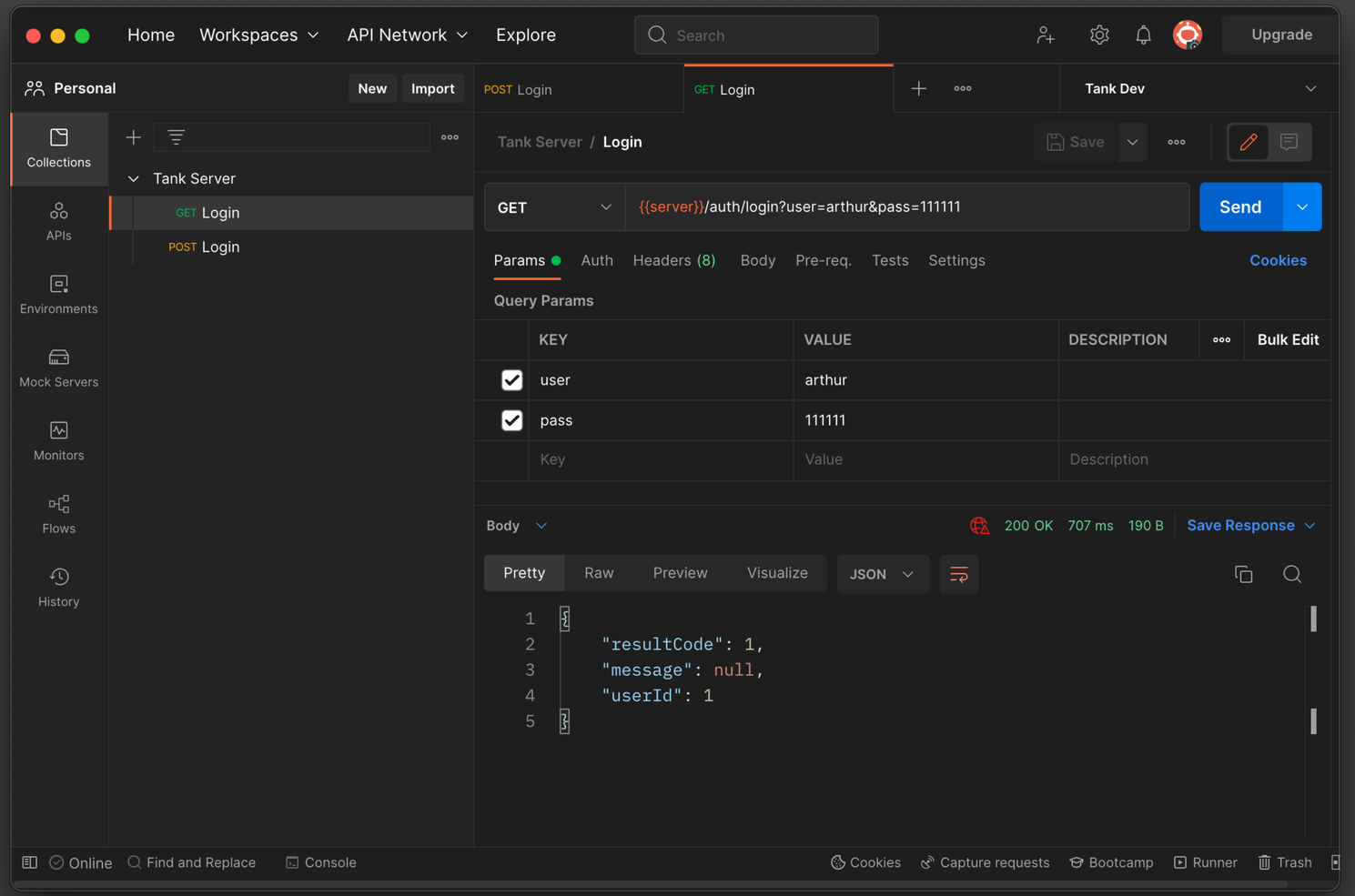
Login Example
ngrok

- 安裝 Ngrok (https://ngrok.com/)
- 開啟 終端機 或 PowerShell
- 輸入 ngrok http 5000
- 獲得本機電腦的 對外IP

```
ngrok

Join us in the ngrok community @ https://ngrok.com/slack

Session Status                online
Account                       Arthur Pai (Plan: Free)
Update                        update available (version 3.1.0, Ctrl-U to update)
Version                       3.0.6
Region                        United States (us)
Latency                       -
Web Interface                 http://127.0.0.1:4040
Forwarding                    https://b7ac-61-221-104-13.ngrok.io -> http://localhost:5000

Connections                   ttl     opn     rt1     rt5     p50     p90
                              0       0       0.00    0.00    0.00    0.00
```

Login Example
ngrok

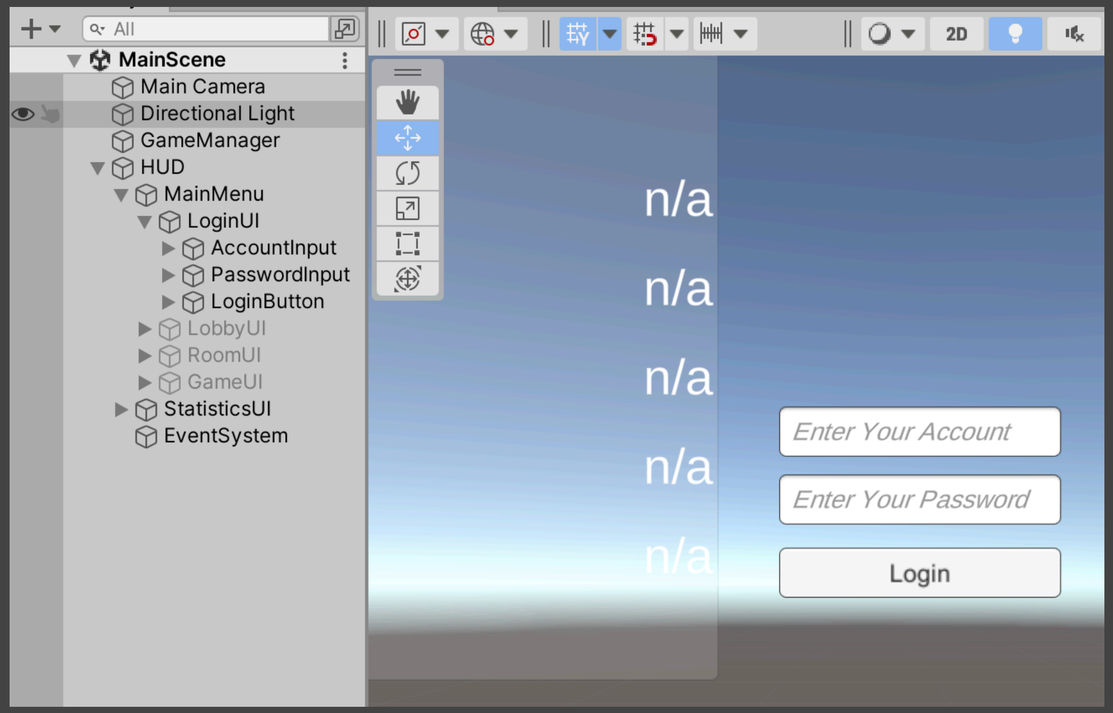


https://www.postman.com/

練習 5分鐘

Client Side

Login Example



Login Example
MainMenu.cs

```
public class MainMenu : MonoBehaviourPunCallbacks
{
  public static MainMenu instance;

  private bool IsInitialed = false;

  private GameObject m_loginUI;
  private TMP_InputField  m_accountInput;
  private TMP_InputField  m_passwordInput;
  private Button m_loginButton;

  …
  void Awake()
  {
    …

    m_loginUI = transform.FindAnyChild<Transform>("LoginUI").gameObject;
    m_accountInput = transform.FindAnyChild<TMP_InputField>("AccountInput");
    m_passwordInput = transform.FindAnyChild<TMP_InputField>("PasswordInput");
    m_loginButton = transform.FindAnyChild<Button>("LoginButton");

    …
 }

  private void ResetUI()
  {
    m_loginUI.SetActive(true);
    m_accountInput.interactable = true;
    m_passwordInput.interactable = true;
    m_loginButton.interactable = true;

    …
  }
```

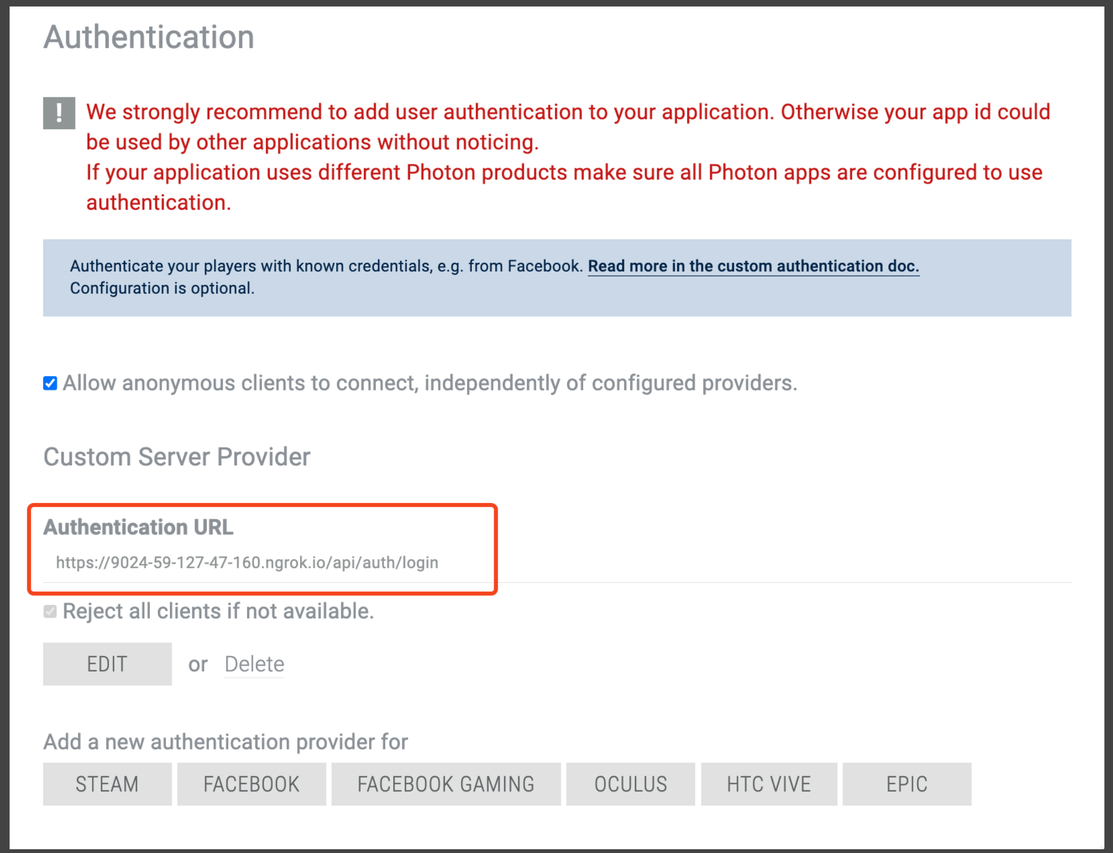
Login Example
MainMenu.cs

```
    …
    public void Login()
    {
      if (string.IsNullOrEmpty(m_accountInput.text))
      {
        Debug.Log("Please input your account!!");
        return;
      }

      if (string.IsNullOrEmpty(m_passwordInput.text))
      {
        Debug.Log("Please input your password!!");
        return;
      }

      m_accountInput.interactable = false;
      m_passwordInput.interactable = false;
      m_loginButton.interactable = false;

      GameManager.instance.ConnectToServer(m_accountInput.text, m_passwordInput.text);
    }

    public void OnLoginSuccess()
    {
      Debug.Log("Main Menu: Login success");

      m_loginUI.SetActive(false);
      m_lobbyUI.SetActive(true);
    }

    public void OnLoginFailed(string reason)
    {
      Debug.Log("Main Menu: Login failed: " + reason);

      m_accountInput.interactable = true;
      m_passwordInput.interactable = true;
      m_loginButton.interactable = true;
    }
    …
}
```

Login Example
MainMenu.cs

```
public class GameManager : MonoBehaviourPunCallbacks
{
  …
  public bool ConnectToServer(string account, string password)
  {
    PhotonNetwork.NickName = account;

    var authValues = new AuthenticationValues();
    authValues.AuthType = CustomAuthenticationType.Custom;
    authValues.AddAuthParameter("user", account);
    authValues.AddAuthParameter("pass", password);
    PhotonNetwork.AuthValues = authValues;

    return PhotonNetwork.ConnectUsingSettings();
  }

  public override void OnConnected()
  {
    Debug.Log("Game Manager: PUN Connected");
  }

  public override void OnDisconnected(DisconnectCause cause)
  {
    Debug.LogWarningFormat("PUN Disconnected was called by PUN with reason {0}", cause);
  }

  public override void OnCustomAuthenticationFailed(string debugMessage)
  {
    MainMenu.instance.OnLoginFailed(debugMessage);
  }

  public override void OnConnectedToMaster()
  {
    Debug.Log("Game Manager: PUN Connected to Master");
    MainMenu.instance.OnLoginSuccess();
  }
}
```

Login Example



練習 10分鐘

Returning Data To Client

ResultCode	Description	UserId	Nickname	AuthCookie	Data
0	Authentication incomplete, only Data returned.*	✖	✖	✖	✔
1	Authentication successful.	✔ (optional)	✔ (optional)	✔ (optional)	✔ (optional)
2	Authentication failed. Wrong credentials.	✖	✖	✖	✖
3	Invalid parameters.	✖	✖	✖	✖

Returning Data To Client

```
{
  "ResultCode": 1,                          // 成功
  "UserId": “SomeUniqueStringId",    // 會覆蓋 PhotonNetwork.LocalPlayer.UserId
  "Nickname": “SomeNiceDisplayName” // 會覆蓋 PhotonNetwork.NickName
  "AuthCookie": {                           // Photon 後續跟 WebHook 溝通時的參數
    "SecretKey": “SecretValue",
    "Check": true,
    "AnotherKey": 1000
  },
  "Data": {                                 // 回給玩家的資訊
    "Weapon": “Gun",
    "Items": [ 1, -5, 9 ]
  }
}
```

Auth Result Callback

```
public override void
OnCustomAuthenticationResponse(Dictionary<string, object> data)
{
  // here you can access the returned data
}
```

Return Data Example

Return Data
Server Side: PhotonResult

```
namespace TankServer.Responses;

public class PhotonResult
{
  public int ResultCode { get; set; }

  public string? Message { get; set; }

  public long UserId { get; set; }

  public string? Nickname { get; set; }

  public Dictionary<string, object>? AuthCookie { get; set; }

  public Dictionary<string, object>? Data { get; set; }
}
```

Return Data
Server Side AuthController

```
return new PhotonResult
{
  ResultCode = 1,
  UserId = player.Id,
  Nickname = user,
  AuthCookie = new Dictionary<string, object>
  {
    { "SecretKey", "SecretValue" },
    { "Check", true },
    { "AnotherKey", 1000 },
  },
  Data = new Dictionary<string, object>
  {
    { "Weapon", "Gun" },
    { "Items", new List<int> { 1, -5, 9 } }
  }
};
```

Return Data
Client Side GameManager

```
public override void OnCustomAuthenticationResponse(Dictionary<string, object> data)
{
  foreach (var kvp in data)
  {
    if (kvp.Value.GetType().IsArray)
    {
      var list = (object[])kvp.Value;
      Debug.Log($"User Data: {kvp.Key} = [{string.Join(",", list.Select(x =>
x.ToString()).ToArray())}]");
    }
    else
    {
      Debug.Log($"User Data: {kvp.Key} = {kvp.Value}");
    }
  }
}
```

練習 10分鐘

Sending Data To Server

- 如果 Client 要傳送大量額外資料給 Server 時，因為 query string 有字數的限制
  - 例如同時註冊跟登入，要額外傳送玩家暱稱、年齡等等資訊
  - 可以簡化 API 呼叫次數

```
var authValues = new AuthenticationValues();
authValues.AuthType = CustomAuthenticationType.Custom;
authValues.SetAuthPostData(new Dictionary<string, object>
{
  { "user", userId },
  { "pass", pass },
  { "nickname", "Arthur" },
  { "age", 18 },
  { "address", "台北" },
});
PhotonNetwork.AuthValues = authValues;
PhotonNetwork.ConnectUsingSettings();
```

HTTP method

AuthPostData	AuthGetParameters	HTTP method
null	*	GET
empty string	*	GET
string (not null, not empty)	*	POST
byte[] (not null, can be empty)	*	POST
Dictionary<string, object> (not null, can be empty)	*	POST (Content-Type="application/json")

Post More Auth Data Example

Server Side

Post More Auth Data
Server Side: LoginRequest

```
namespace TankServer.Requests;

public class LoginRequest
{
  public string? user { get; set; }
  public string? pass { get; set; }
  public string? nickname { get; set; }
  public int age { get; set; }
  public string? address { get; set; }
}
```

Post More Auth Data
Server Side: Player Model

```
namespace TankServer.Models;

public class Player
{
  public long Id { get; set; }
  public string? Name { get; set; }
  public string? Password { get; set; }
  public string? Nickname { get; set; }
  public int Age { get; set; }
  public string? Address { get; set; }
  public int Score { get; set; }
}
```

Post More Auth Data
Server Side: AuthController

```
// POST: api/auth/login
[HttpPost("login")]
public async Task<PhotonResult> Login([FromBody] LoginRequest request)
{
  // 判斷參數是否有值
  if (string.IsNullOrWhiteSpace(request.user) || string.IsNullOrWhiteSpace(request.pass))
  {
    return new PhotonResult
    {
      ResultCode = 3,
      Message = "Invalid parameters."
    };
  }

  var player = await _context.Players
    .Where(p => p.Name == request.user)
    .FirstOrDefaultAsync();

  // 產生 password 的 hash 值
  var passwordHash = GetSha256Hash(request.pass);
```

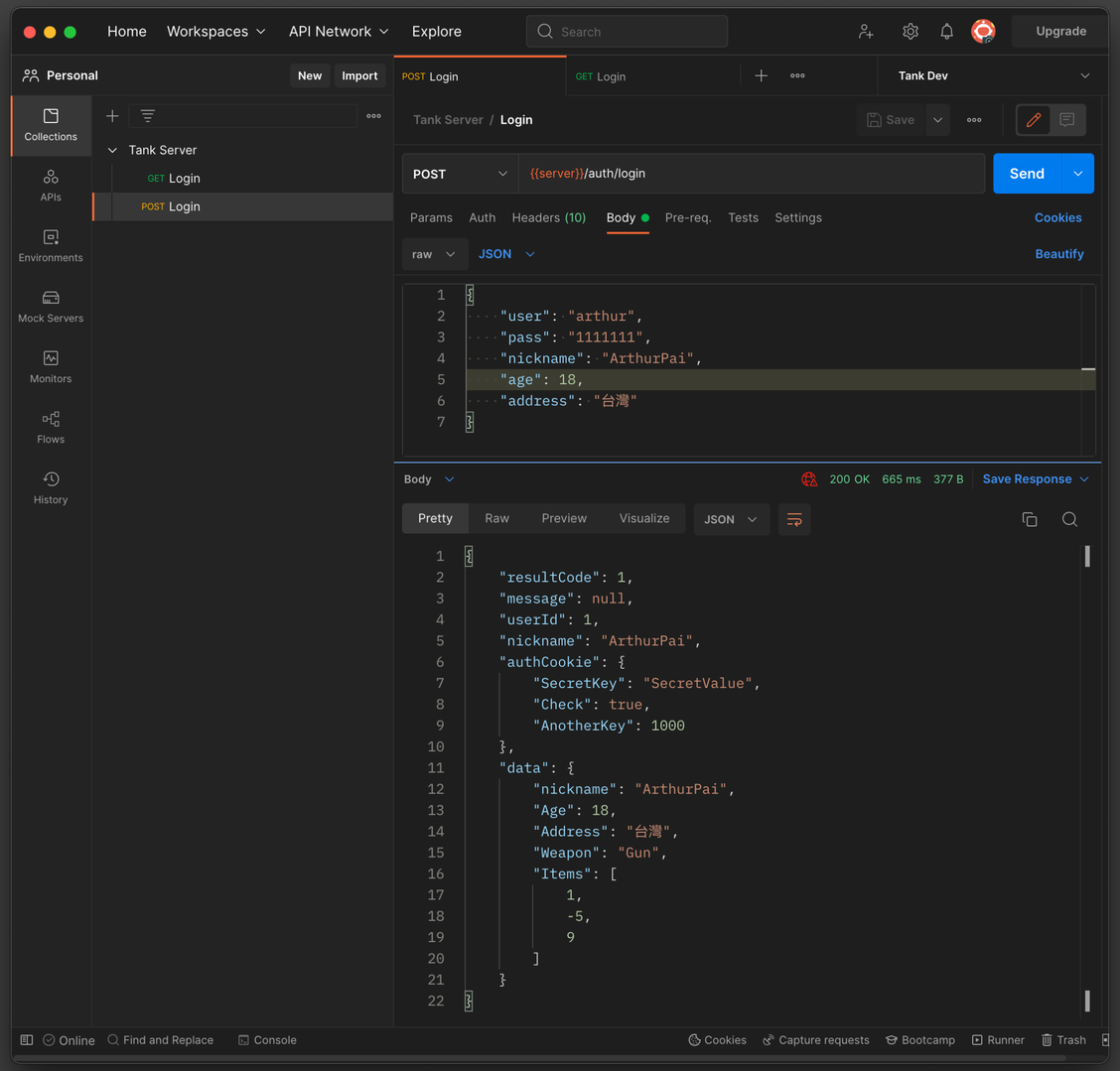
Post More Auth Data
Server Side: AuthController

```
if (player != null)
{
  // 判斷 hash 後的密碼是一致
  if (player.Password != passwordHash)
  {
    return new PhotonResult
    {
      ResultCode = 2,
      Message = "Credentials incorrect."
    };
  }

  return new PhotonResult
  {
    ResultCode = 1,
    UserId = player.Id,
    Nickname = player.Nickname,
    AuthCookie = new Dictionary<string, object>
    {
      { "SecretKey", "SecretValue" },
      { "Check", true },
      { "AnotherKey", 1000 },
    },
    Data = new Dictionary<string, object>
    {
      { "nickname", player.Nickname ?? player.Name ?? "" },
      { "Age", player.Age },
      { "Address", player.Address ?? "" },
      { "Weapon", "Gun" },
      { "Items", new List<int> { 1, -5, 9 } }
    }
  };
}
```

Post More Auth Data
Server Side: AuthController

```
    // 如果玩家不存在，則幫他註冊
    player = new Player
    {
      Name = request.user,
      Password = passwordHash,
      Nickname = request.nickname,
      Age = request.age,
      Address = request.address,
    };
    await _context.Players.AddAsync(player);

    // 儲存到資料庫
    await _context.SaveChangesAsync();

    return new PhotonResult
    {
      ResultCode = 1,
      UserId = player.Id,
      Nickname = player.Nickname,
      AuthCookie = new Dictionary<string, object>
      {
        { "SecretKey", "SecretValue" },
        { "Check", true },
        { "AnotherKey", 1000 },
      },
      Data = new Dictionary<string, object>
      {
        { "nickname", player.Nickname ?? player.Name ?? "" },
        { "Age", player.Age },
        { "Address", player.Address ?? "" },
        { "Weapon", "Gun" },
        { "Items", new List<int> { 1, -5, 9 } }
      }
    };
  }
```

Post More Auth Data Postman



練習 15分鐘

Client Side

Post More Auth Data
Client Side: Game Manager

```
public bool ConnectToServer(string account, string password)
{
  var authValues = new AuthenticationValues();
  authValues.AuthType = CustomAuthenticationType.Custom;
  authValues.SetAuthPostData(new Dictionary<string, object>
  {
    { "user", account },
    { "pass", password },
    { "nickname", account },
    { "age", 18 },
    { "address", "台北" },
  });
  PhotonNetwork.AuthValues = authValues;

  return PhotonNetwork.ConnectUsingSettings();
}
```

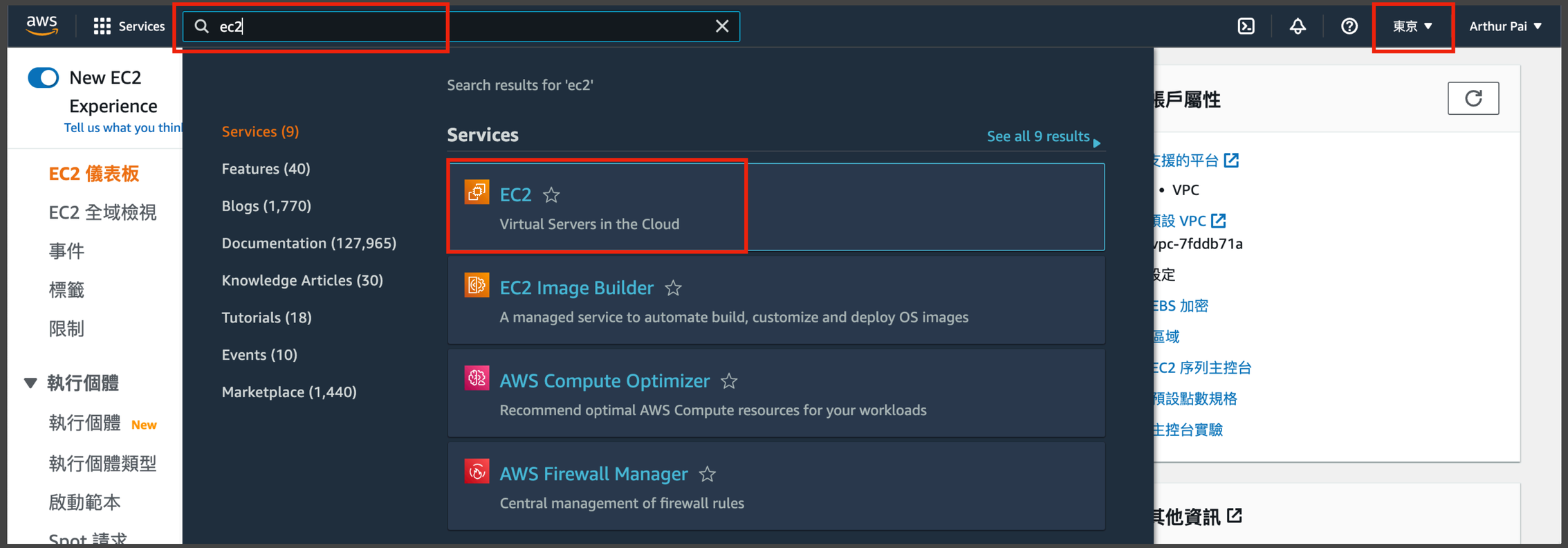
Post More Auth Data
Client Side: Game Manager

```
public override void OnCustomAuthenticationResponse(Dictionary<string, object> data)
{
  foreach (var kvp in data)
  {
    if (kvp.Value.GetType().IsArray)
    {
      var list = (object[])kvp.Value;
      Debug.Log($"User Data: {kvp.Key} = [{string.Join(",", list.Select(x =>
x.ToString()).ToArray())}]");
    }
    else
    {
      if (kvp.Key == "nickname")
      {
        PhotonNetwork.NickName = (string)kvp.Value;
      }

      Debug.Log($"User Data: {kvp.Key} = {kvp.Value}");
    }
  }
}
```

練習 15分鐘

啟動 AWS EC2 伺服器

AWS

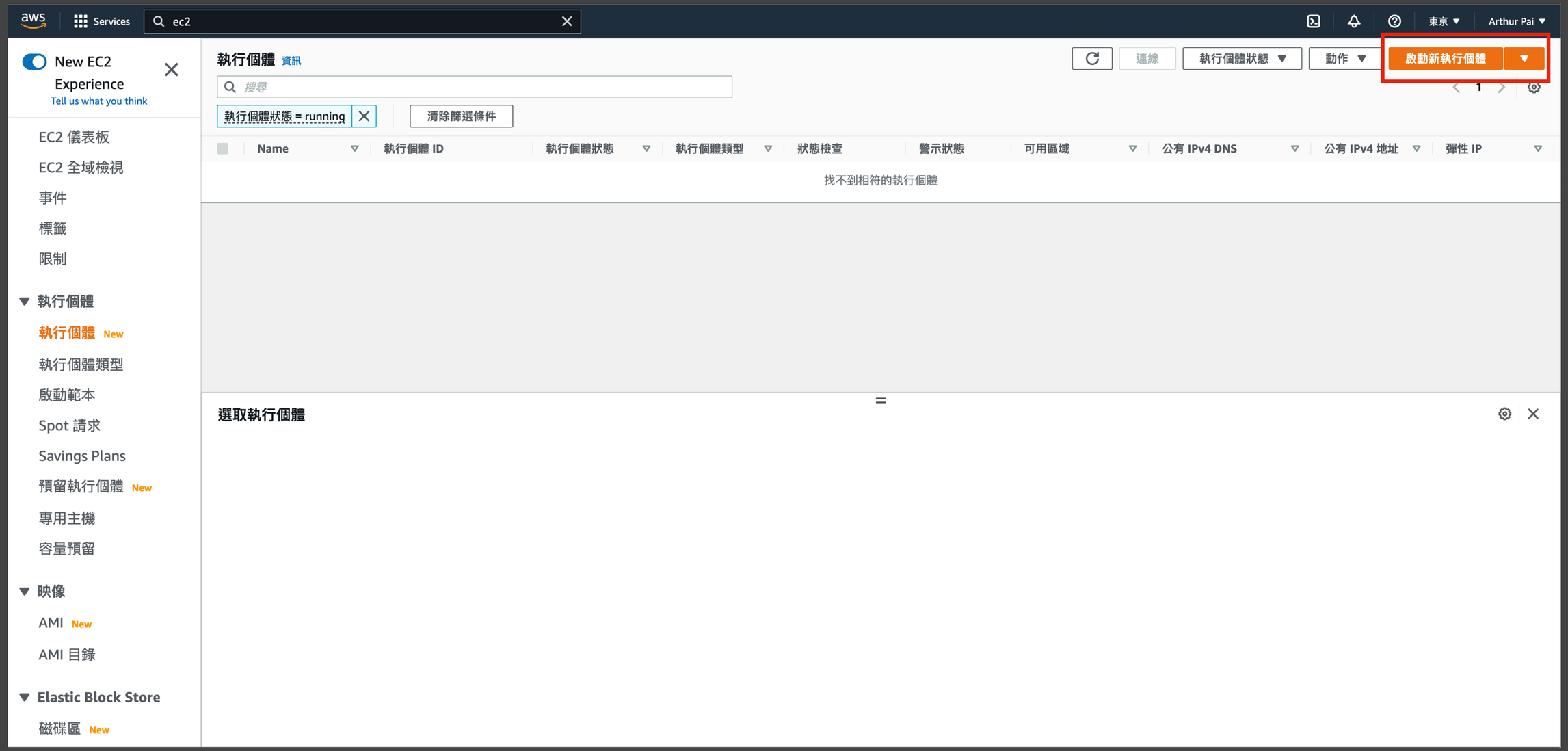


https://console.aws.amazon.com/

EC2


New EC2 Experience
Tell us what you think
EC2 儀表板
EC2 全域檢視
事件
標籤
限制
執行個體
執行個體 New
執行個體類型
資源
EC2 全域檢視
您正在 亞太地區 (東京) 區域使用以下 Amazon EC2 資源：
執行個體 (執行中) 0
安全群組 2
快照 0
金鑰對 1
負載平衡器 0
配置群組 0
執行個體 0
專用主機 0
磁碟區 0
彈性 IP 0
利用 AWS Launch Wizard for SQL Server，在 AWS 上輕鬆調整、設定及部署 Microsoft SQL Server Always On 可用性群組。進一步了解

啟動 Server


aws
Services
ec2
東京
Arthur Pai
New EC2 Experience
Tell us what you think
EC2 儀表板
EC2 全域檢視
事件
標籤
限制
執行個體
執行個體 New
執行個體類型
啟動範本
Spot 請求
Savings Plans
預留執行個體 New
專用主機
容量預留
映像
AMI New
AMI 目錄
Elastic Block Store
磁碟區 New
執行個體 資訊
連線
執行個體狀態
動作
啟動新執行個體
搜尋
執行個體狀態 = running
清除篩選條件
1
Name
執行個體 ID
執行個體狀態
執行個體類型
狀態檢查
警示狀態
可用區域
公有 IPv4 DNS
公有 IPv4 地址
彈性 IP
找不到相符的執行個體
選取執行個體

EC2 > 執行個體 > 啟動執行個體

啟動執行個體 資訊

Amazon EC2 可讓您建立在 AWS 雲端上執行的虛擬機器或執行個體。請按下方的簡易步驟快速開始使用。

名稱和標籤 資訊

名稱

TankServer

新增其他標籤

應用程式和作業系統映像 (Amazon Machine Image) 資訊

AMI 是一種範本，包含啟動執行個體所需的軟體組態 (作業系統、應用程式伺服器和應用程式)。如果在下面看不到所尋找的內容，請搜尋或瀏覽 AMI

搜尋我們的完整型錄, 包括 1,000 個應用程式和作業系統映像

近期項目 | 快速入門

Amazon Linux | Ubuntu | Windows | Red Hat | SUSE Linux

瀏覽更多 AMI

包括來自 AWS、Marketplace 和社群的 AMI

Amazon Machine Image (AMI)

Microsoft Windows Server 2019 Base 符合免費方案資格

ami-0d4e1dc285dc7f5e1 (64 位元 (x86))

虛擬化: hvm 已啟用 ENA: true 根裝置類型: ebs

摘要

執行個體的數目 資訊

1

軟體映像 (AMI)

Microsoft Windows Server 2019 ...閱讀其他資訊

ami-0d4e1dc285dc7f5e1

虛擬伺服器類型 (執行個體類型)

t2.micro

防火牆 (安全群組)

新的安全群組

儲存 (磁碟區)

1 磁碟區 – 30 GiB

免費方案： In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

取消

啟動執行個體

aws | ubuntu | Microsoft | Red Hat | SUSE | 包括來自 AWS、Marketplace 和社群的 AMI

Amazon Machine Image (AMI)

Microsoft Windows Server 2019 Base 符合免費方案資格
ami-0d4e1dc285dc7f5e1 (64 位元 (x86))
虛擬化: hvm 已啟用 ENA: true 根裝置類型: ebs

描述

Microsoft Windows Server 2019 with Desktop Experience Locale English AMI provided by Amazon

架構	AMI ID
64 位元 (x86)	ami-0d4e1dc285dc7f5e1

▼ 執行個體類型 資訊

執行個體類型

t2.micro 符合免費方案資格
系列: t2 1 vCPU 1 GiB 記憶體
隨需 Linux 定價: 0.0152 USD 每小時
隨需 Windows 定價: 0.0198 USD 每小時

比較執行個體類型

▼ 金鑰對 (登入) 資訊

您可以使用金鑰對安全地連線到您的執行個體。在啟動執行個體之前，請確定您有權存取所選取的金鑰對。

金鑰對名稱 - *必要*

選取

建立新的金鑰對

如果是 Windows 執行個體，您可以使用金鑰對來解密管理員密碼，然後使用解密的密碼連線到您的執行個體。

▼ 摘要

執行個體的數目 資訊

1

軟體映像 (AMI)
Microsoft Windows Server 2019 ...閱讀其他資訊
ami-0d4e1dc285dc7f5e1

虛擬伺服器類型 (執行個體類型)
t2.micro

防火牆 (安全群組)
新的安全群組

儲存 (磁碟區)
1 磁碟區 – 30 GiB

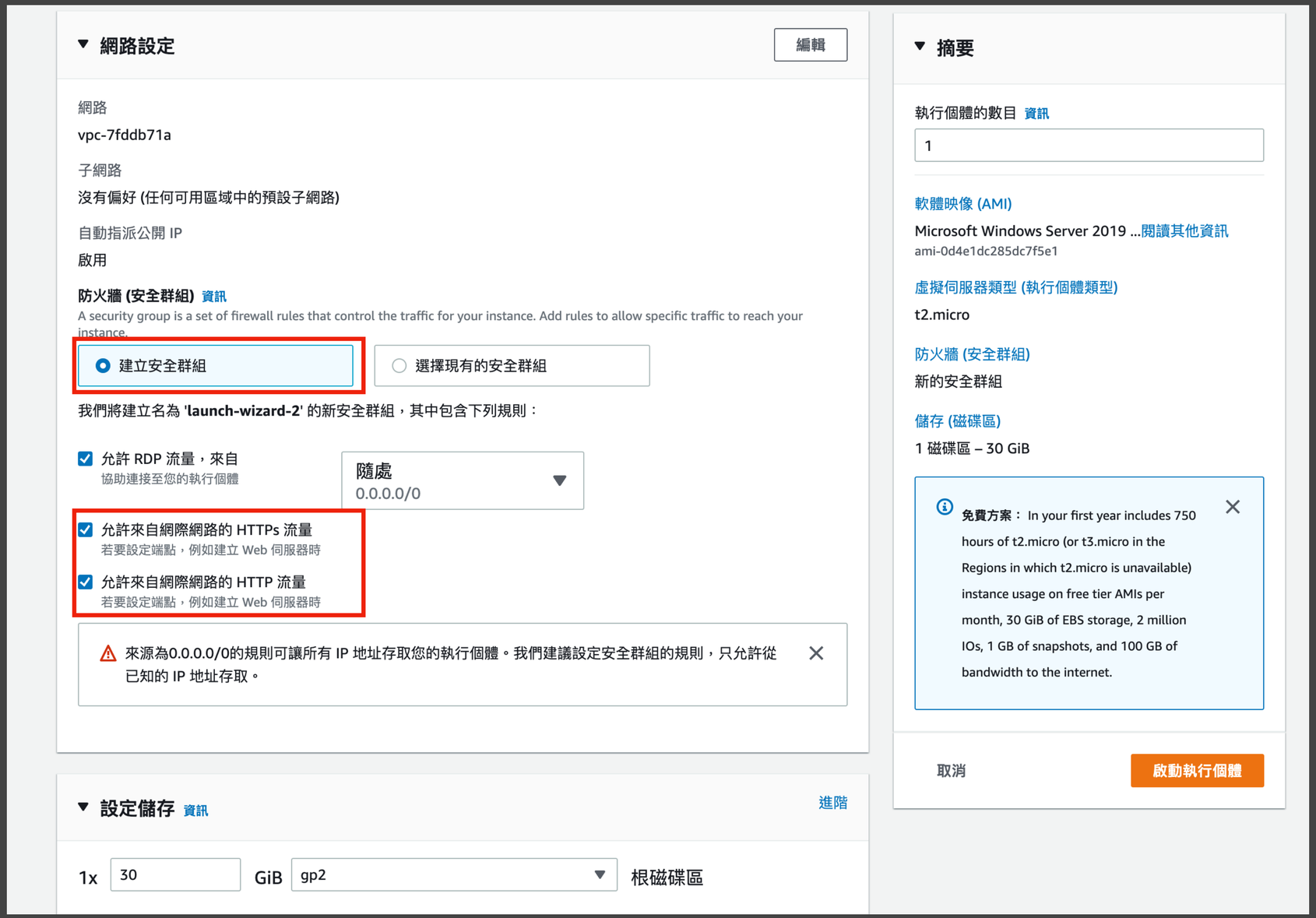
免費方案： In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

取消 **啟動執行個體**

金鑰對

- 金鑰對(.pem)是之後要登入伺服器的 Key
- 之後會使用 Microsoft Remote Desktop 來登入伺服器

安全群組（防火牆）


網路設定
編輯
網路
vpc-7fddb71a
子網路
沒有偏好 (任何可用區域中的預設子網路)
自動指派公開 IP
啟用
防火牆 (安全群組) 資訊
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
建立安全群組
選擇現有的安全群組
我們將建立名為 'launch-wizard-2' 的新安全群組，其中包含下列規則：
允許 RDP 流量，來自
協助連接至您的執行個體
隨處
0.0.0.0/0
允許來自網際網路的 HTTPs 流量
若要設定端點，例如建立 Web 伺服器時
允許來自網際網路的 HTTP 流量
若要設定端點，例如建立 Web 伺服器時
來源為0.0.0.0/0的規則可讓所有 IP 地址存取您的執行個體。我們建議設定安全群組的規則，只允許從已知的 IP 地址存取。
設定儲存 資訊
進階
1x
30
GiB
gp2
根磁碟區
摘要
執行個體的數目 資訊
1
軟體映像 (AMI)
Microsoft Windows Server 2019 ...閱讀其他資訊
ami-0d4e1dc285dc7f5e1
虛擬伺服器類型 (執行個體類型)
t2.micro
防火牆 (安全群組)
新的安全群組
儲存 (磁碟區)
1 磁碟區 – 30 GiB
免費方案： In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
取消
啟動執行個體

我們將建立名為 **'launch-wizard-2'** 的新安全群組，其中包含下列規則：

允許 RDP 流量，來自
協助連接至您的執行個體

隨處
0.0.0.0/0

允許來自網際網路的 HTTPs 流量
若要設定端點，例如建立 Web 伺服器時

允許來自網際網路的 HTTP 流量
若要設定端點，例如建立 Web 伺服器時

⚠ 來源為0.0.0.0/0的規則可讓所有 IP 地址存取您的執行個體。我們建議設定安全群組的規則，只允許從已知的 IP 地址存取。

設定儲存 資訊

進階

1x 30 GiB gp2 根磁碟區

ⓘ 符合免費方案資格的客戶可獲得最多 30 GB 的 EBS 一般用途 (SSD) 或磁性儲存空間

新增新磁碟區

選取的 AMI 包含比執行個體允許的數量更多的執行個體存放磁碟區。只有來自 AMI 的第一個 0 執行個體存放磁碟區才能從執行個體存取

0 x 檔案系統 編輯

進階詳細資訊 資訊

摘要

執行個體的數目 資訊
1

軟體映像 (AMI)
Microsoft Windows Server 2019 ...閱讀其他資訊
ami-0d4e1dc285dc7f5e1

虛擬伺服器類型 (執行個體類型)
t2.micro

防火牆 (安全群組)
新的安全群組

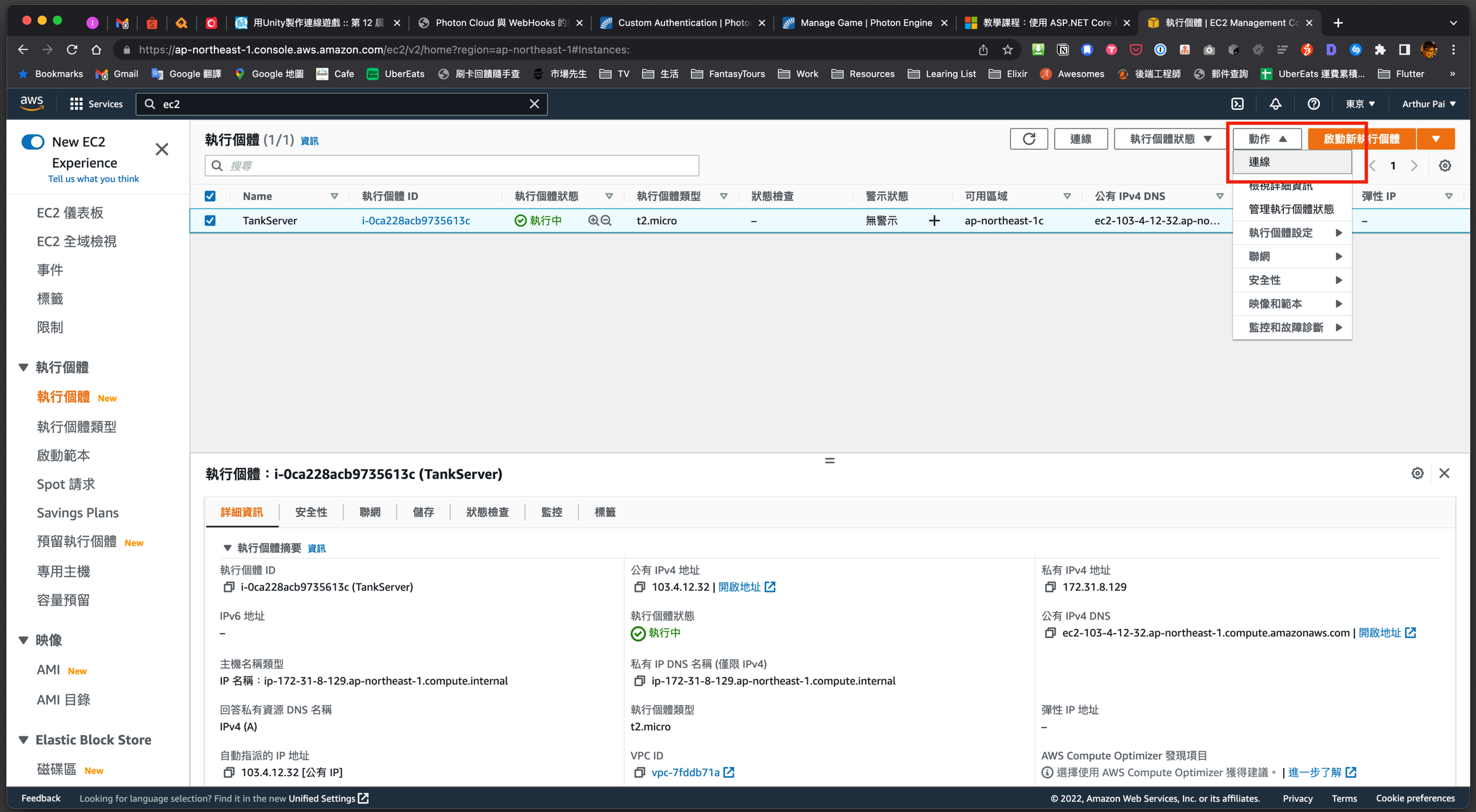
儲存 (磁碟區)
1 磁碟區 – 30 GiB

ⓘ **免費方案：** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

取消 **啟動執行個體**

等待伺服器啟動


aws
Services
ec2
東京
Arthur Pai
New EC2 Experience
Tell us what you think
EC2 儀表板
EC2 全域檢視
事件
執行個體 (1) 資訊
連線
執行個體狀態
動作
啟動新執行個體
搜尋
1
Name
執行個體 ID
執行個體狀態
執行個體類型
狀態檢查
警示狀態
可用區域
公有 IPv4 DNS
公有 IPv4 地址
彈性 IP
TankServer
i-0ca228acb9735613c
待處理
t2.micro
–
無警示
ap-northeast-1c
ec2-103-4-12-32.ap-no...
103.4.12.32
–


用Unity製作連線遊戲 :: 第 12 屆
Photon Cloud 與 WebHooks 的
Custom Authentication | Photo
Manage Game | Photon Engine
教學課程：使用 ASP.NET Core
執行個體 | EC2 Management Co
https://ap-northeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-northeast-1#Instances:
Bookmarks
Gmail
Google 翻譯
Google 地圖
Cafe
UberEats
刷卡回饋隨手查
市場先生
TV
生活
FantasyTours
Work
Resources
Learing List
Elixir
Awesomes
後端工程師
郵件查詢
UberEats 運費累積...
Flutter
aws
Services
ec2
東京
Arthur Pai
New EC2 Experience
Tell us what you think
EC2 儀表板
EC2 全域檢視
事件
標籤
限制
執行個體
執行個體 New
執行個體類型
啟動範本
Spot 請求
Savings Plans
預留執行個體 New
專用主機
容量預留
映像
AMI New
AMI 目錄
Elastic Block Store
磁碟區 New
執行個體 (1/1) 資訊
搜尋
連線
執行個體狀態
動作
啟動新執行個體
連線
檢視詳細資訊
管理執行個體狀態
執行個體設定
聯網
安全性
映像和範本
監控和故障診斷
Name
執行個體 ID
執行個體狀態
執行個體類型
狀態檢查
警示狀態
可用區域
公有 IPv4 DNS
彈性 IP
TankServer
i-0ca228acb9735613c
執行中
t2.micro
–
無警示
ap-northeast-1c
ec2-103-4-12-32.ap-no...
–
執行個體：i-0ca228acb9735613c (TankServer)
詳細資訊
安全性
聯網
儲存
狀態檢查
監控
標籤
執行個體摘要 資訊
執行個體 ID
i-0ca228acb9735613c (TankServer)
公有 IPv4 地址
103.4.12.32 | 開啟地址
私有 IPv4 地址
172.31.8.129
IPv6 地址
–
執行個體狀態
執行中
公有 IPv4 DNS
ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com | 開啟地址
主機名稱類型
IP 名稱：ip-172-31-8-129.ap-northeast-1.compute.internal
私有 IP DNS 名稱 (僅限 IPv4)
ip-172-31-8-129.ap-northeast-1.compute.internal
回答私有資源 DNS 名稱
IPv4 (A)
執行個體類型
t2.micro
彈性 IP 地址
–
自動指派的 IP 地址
103.4.12.32 [公有 IP]
VPC ID
vpc-7fddb71a
AWS Compute Optimizer 發現項目
選擇使用 AWS Compute Optimizer 獲得建議。 | 進一步了解
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

EC2 > 執行個體 > i-0ca228acb9735613c > 連線至執行個體

連線至執行個體 資訊

使用任何這些選項連線至執行個體 i-0ca228acb9735613c (TankServer)

Session Manager | RDP 用戶端 | EC2 序列主控台

⚠ 您可能無法連線到此執行個體，因為可能需要開啟連接埠 3389 才能存取。目前關聯的安全群組並未開啟連接埠 3389。 ✕

執行個體 ID

i-0ca228acb9735613c (TankServer)

連線類型

- 使用 RDP 用戶端連線
  下載檔案並搭配 RDP 用戶端使用，即可擷取您的密碼。
- 使用 Fleet Manager 連線
  若要使用 Fleet Manager Remote Desktop 與執行個體連線，執行個體上必須先安裝及執行 SSM Agent。如需詳細資訊，請參閱 使用 SSM Agent

您可以自行選擇遠端桌面用戶端來連線 Windows 執行個體，也可以下載並執行下列 RDP 捷徑檔：

下載遠端桌面檔

系統出現提示時，請使用下列詳細資訊來連線至執行個體：

Public DNS

ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com

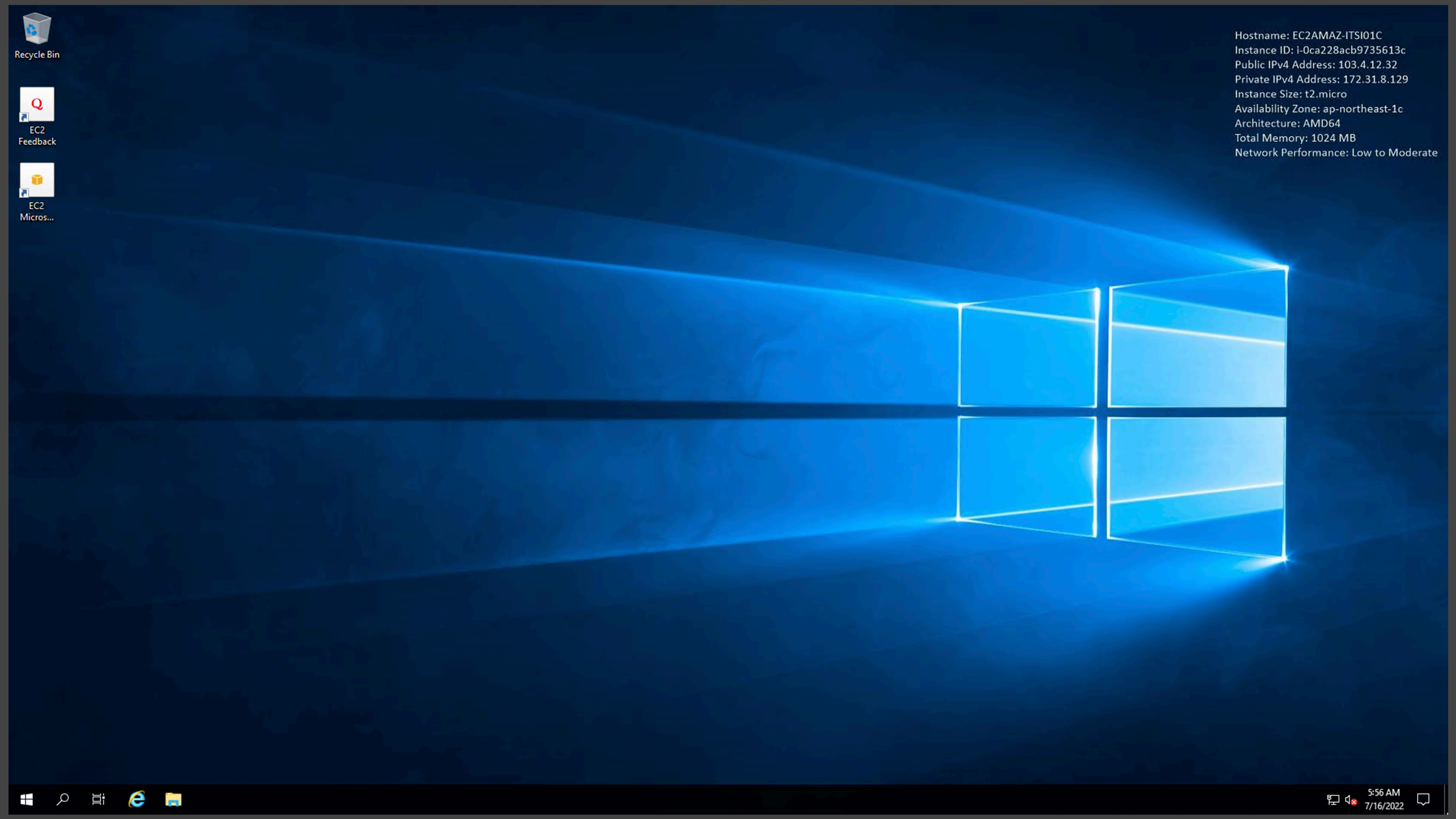
使用者名稱

Administrator

密碼 取得密碼

Windows 桌面用戶端

https://docs.microsoft.com/zh-tw/windows-server/remote/remote-desktop-services/clients/windowsdesktop#install-the-client


Recycle Bin
EC2 Feedback
EC2 Micros...
Hostname: EC2AMAZ-ITSI01C
Instance ID: i-0ca228acb9735613c
Public IPv4 Address: 103.4.12.32
Private IPv4 Address: 172.31.8.129
Instance Size: t2.micro
Availability Zone: ap-northeast-1c
Architecture: AMD64
Total Memory: 1024 MB
Network Performance: Low to Moderate
5:56 AM
7/16/2022

查看已使用的功能

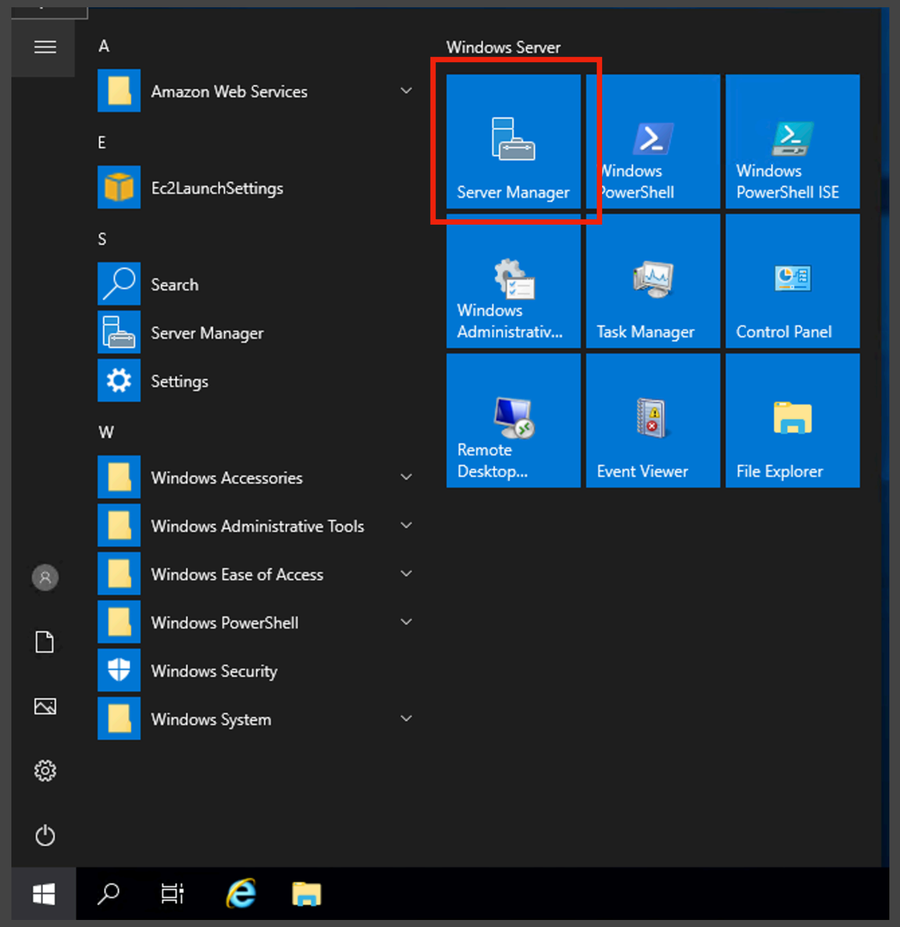

New EC2 Experience
Tell us what you think
EC2 儀表板
EC2 全域檢視
事件
標籤
限制
執行個體
執行個體 New
執行個體類型
資源
EC2 全域檢視
您正在 亞太地區 (東京) 區域使用以下 Amazon EC2 資源：
執行個體 (執行中) 1
安全群組 3
快照 0
金鑰對 2
負載平衡器 0
配置群組 0
執行個體 1
專用主機 0
磁碟區 1
彈性 IP 0
利用 AWS Launch Wizard for SQL Server，在 AWS 上輕鬆調整、設定及部署 Microsoft SQL Server Always On 可用性群組。進一步了解

練習 15分鐘

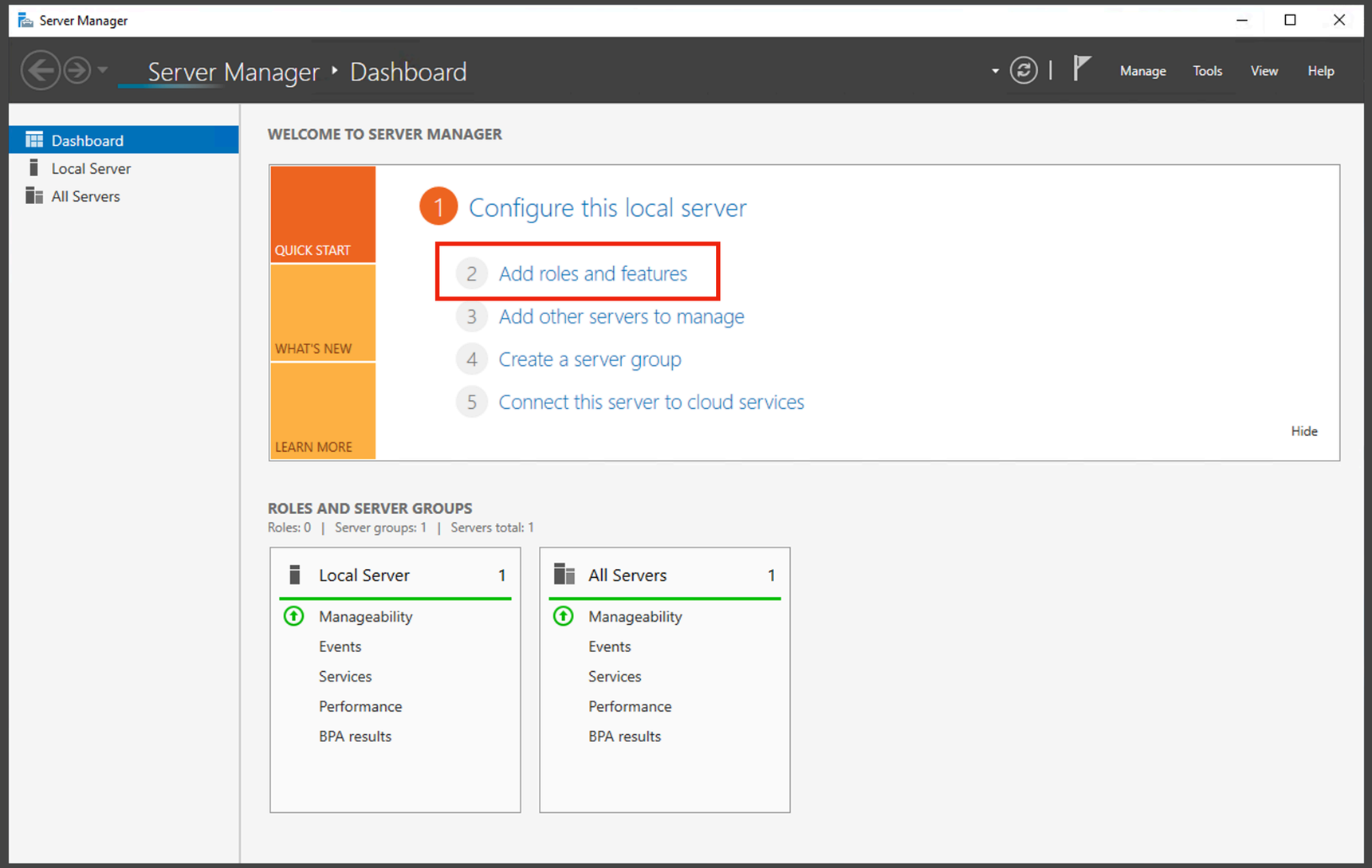
安裝 IIS

https://blog.hungwin.com.tw/windows-server-iis-install/

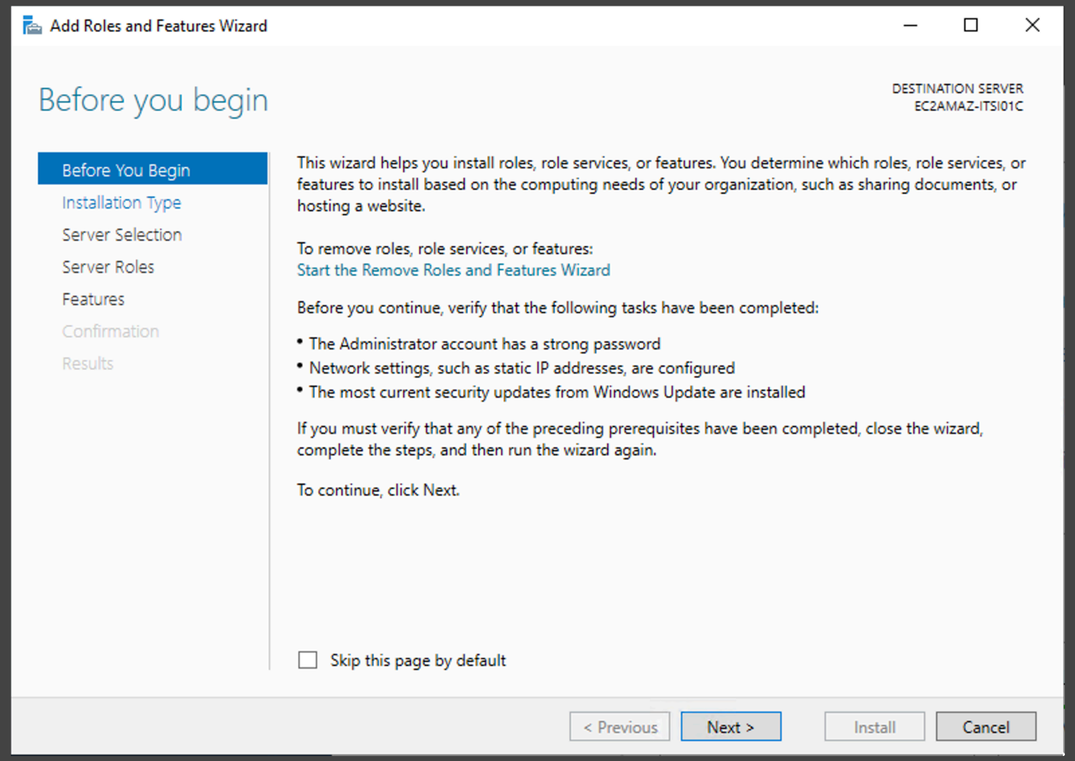
開啟 Server Manager

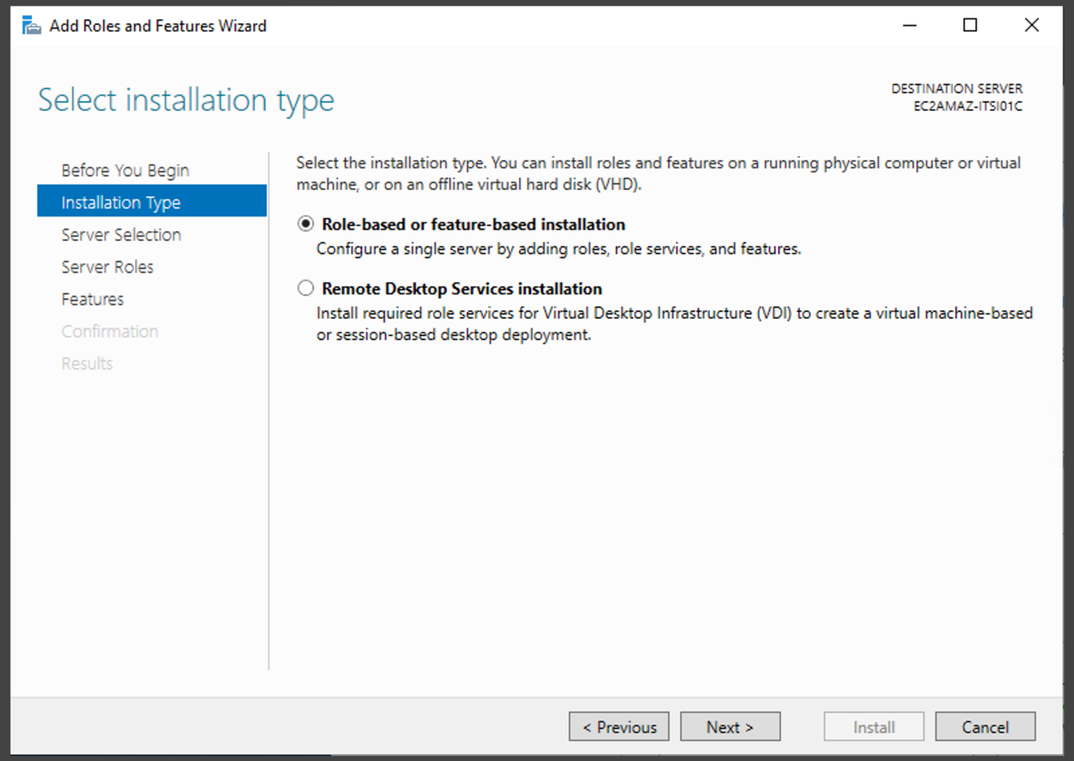


安裝 IIS

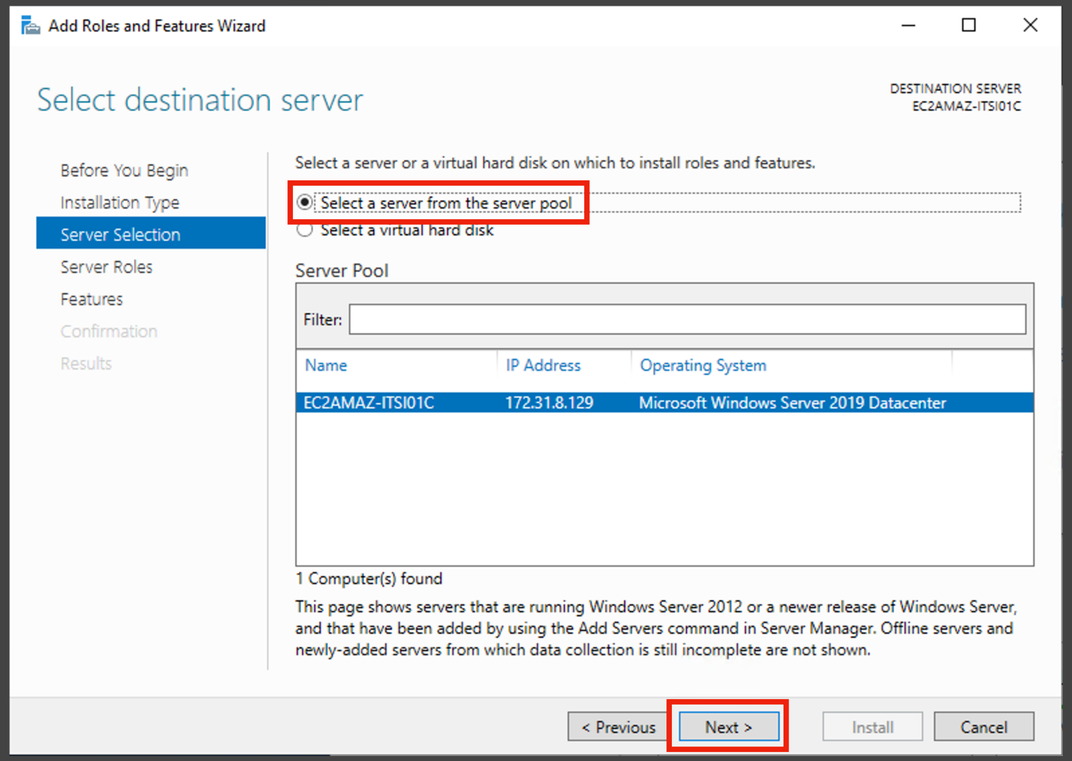

Server Manager
Server Manager ‣ Dashboard
Manage
Tools
View
Help
Dashboard
Local Server
All Servers
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
5 Connect this server to cloud services
Hide
ROLES AND SERVER GROUPS
Roles: 0 | Server groups: 1 | Servers total: 1
Local Server 1
Manageability
Events
Services
Performance
BPA results
All Servers 1
Manageability
Events
Services
Performance
BPA results

安裝 IIS

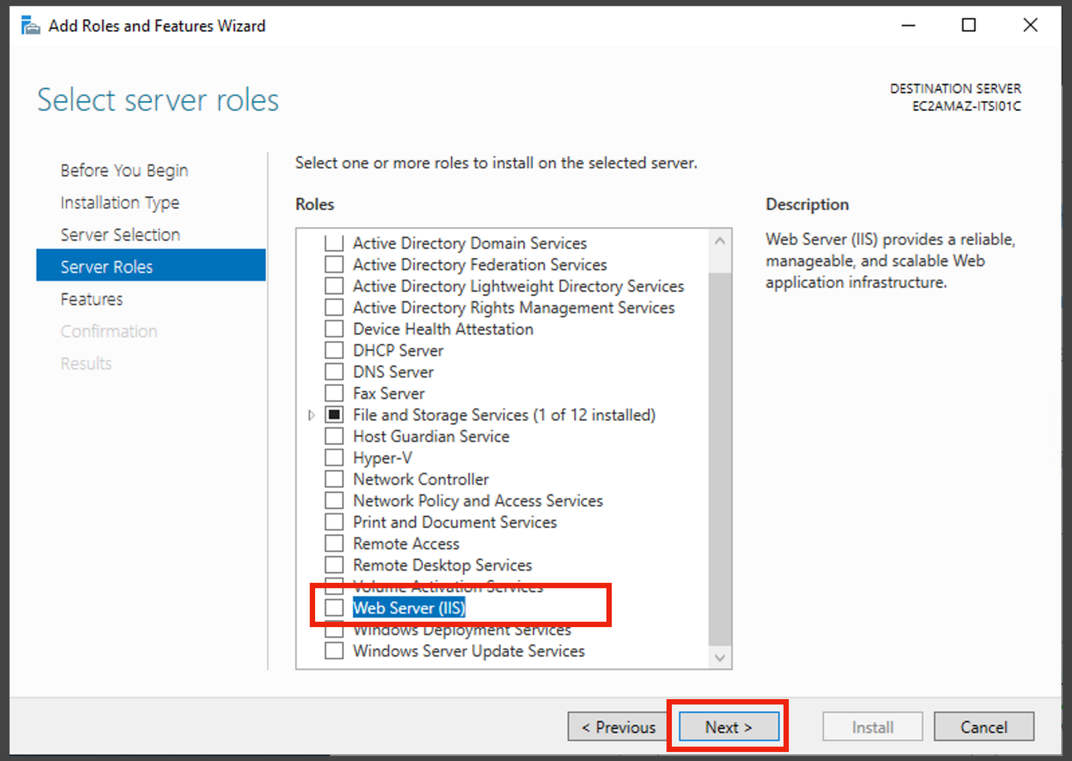

Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel


Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Role-based or feature-based installation
Configure a single server by adding roles, role services, and features.
Remote Desktop Services installation
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
< Previous
Next >
Install
Cancel

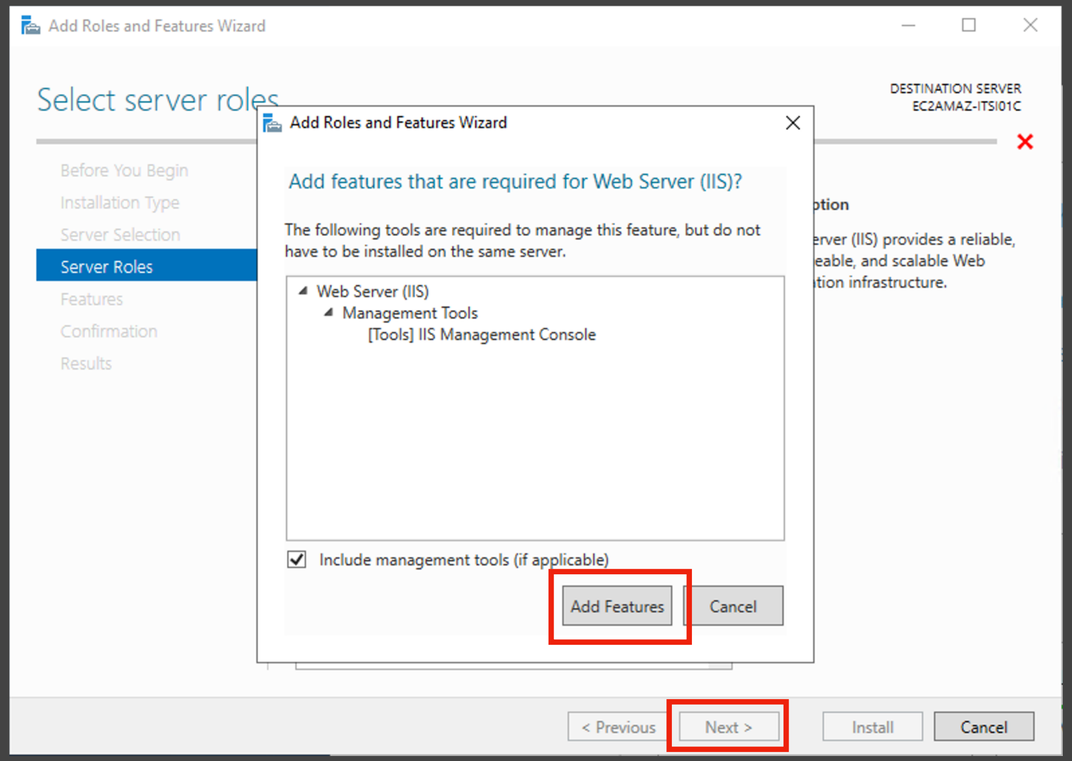
安裝 IIS


Add Roles and Features Wizard
Select destination server
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select a server or a virtual hard disk on which to install roles and features.
Select a server from the server pool
Select a virtual hard disk
Server Pool
Filter:
Name
IP Address
Operating System
EC2AMAZ-ITSI01C
172.31.8.129
Microsoft Windows Server 2019 Datacenter
1 Computer(s) found
This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.
< Previous
Next >
Install
Cancel

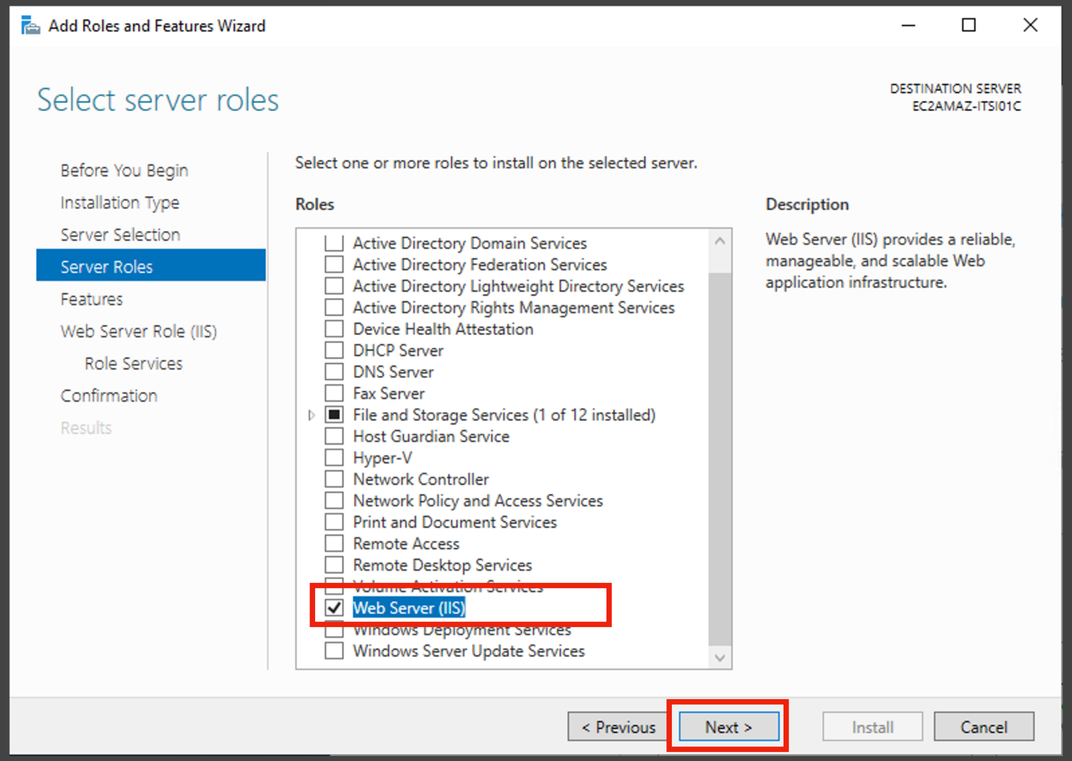
安裝 IIS


Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Device Health Attestation
DHCP Server
DNS Server
Fax Server
File and Storage Services (1 of 12 installed)
Host Guardian Service
Hyper-V
Network Controller
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Web Server (IIS)
Windows Server Update Services
Description
Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
< Previous
Next >
Install
Cancel

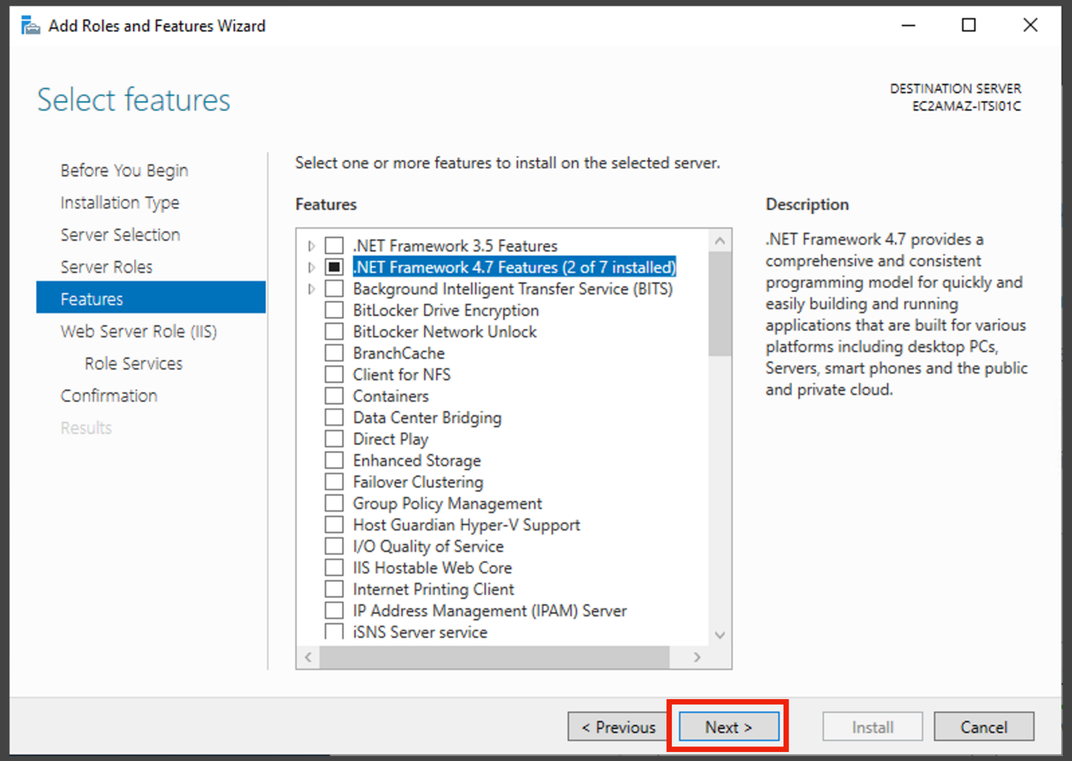
安裝 IIS


Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Add Roles and Features Wizard
Add features that are required for Web Server (IIS)?
The following tools are required to manage this feature, but do not have to be installed on the same server.
Web Server (IIS)
Management Tools
[Tools] IIS Management Console
Include management tools (if applicable)
Add Features
Cancel
< Previous
Next >
Install
Cancel

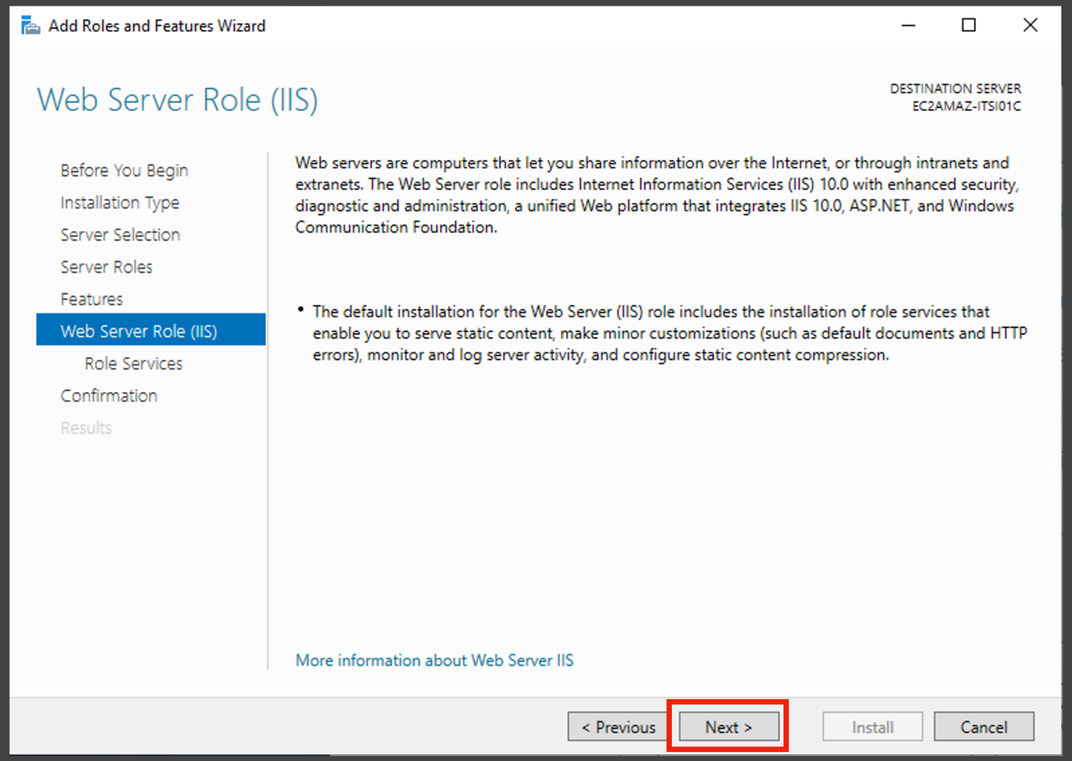
安裝 IIS


Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Device Health Attestation
DHCP Server
DNS Server
Fax Server
File and Storage Services (1 of 12 installed)
Host Guardian Service
Hyper-V
Network Controller
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Web Server (IIS)
Windows Server Update Services
Description
Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
< Previous
Next >
Install
Cancel

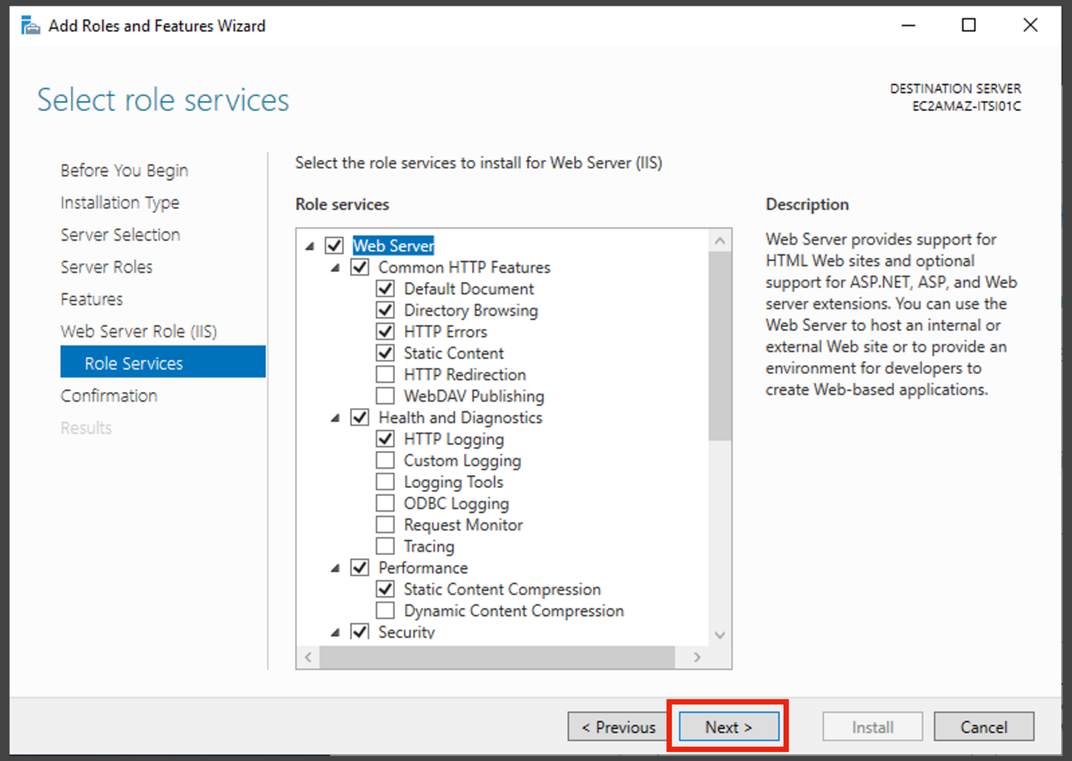
安裝 IIS


Add Roles and Features Wizard
Select features
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select one or more features to install on the selected server.
Features
.NET Framework 3.5 Features
.NET Framework 4.7 Features (2 of 7 installed)
Background Intelligent Transfer Service (BITS)
BitLocker Drive Encryption
BitLocker Network Unlock
BranchCache
Client for NFS
Containers
Data Center Bridging
Direct Play
Enhanced Storage
Failover Clustering
Group Policy Management
Host Guardian Hyper-V Support
I/O Quality of Service
IIS Hostable Web Core
Internet Printing Client
IP Address Management (IPAM) Server
iSNS Server service
Description
.NET Framework 4.7 provides a comprehensive and consistent programming model for quickly and easily building and running applications that are built for various platforms including desktop PCs, Servers, smart phones and the public and private cloud.
< Previous
Next >
Install
Cancel

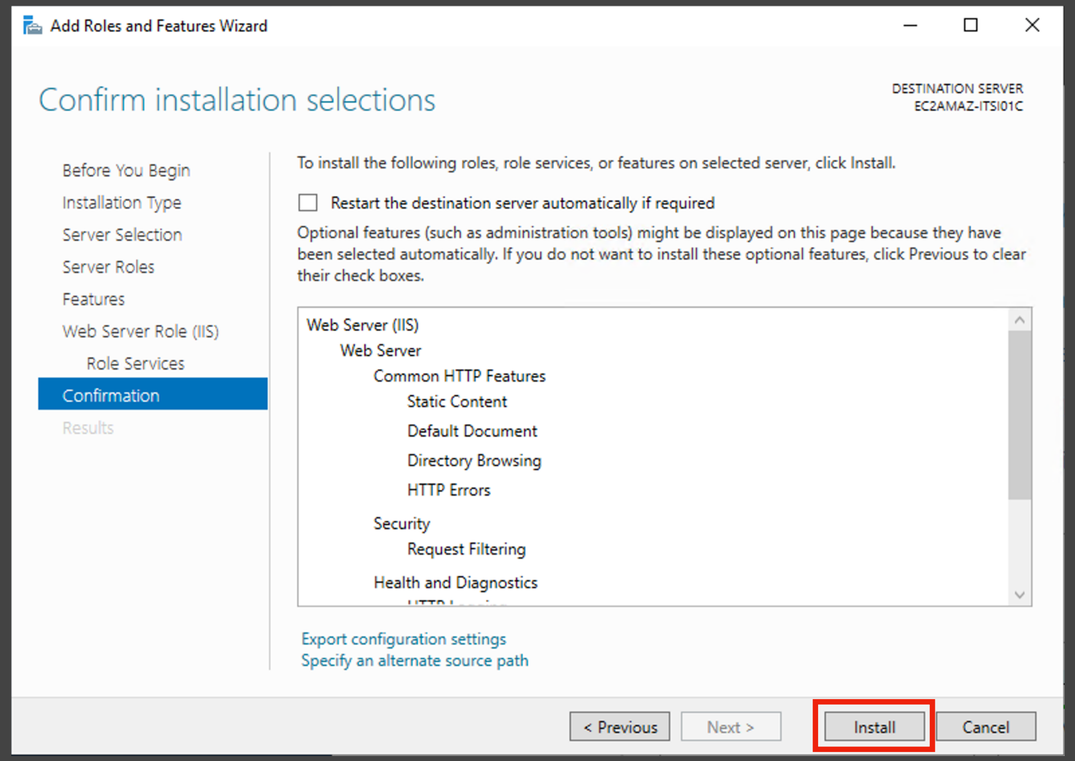
安裝 IIS


Add Roles and Features Wizard
Web Server Role (IIS)
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.
• The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.
More information about Web Server IIS
< Previous
Next >
Install
Cancel

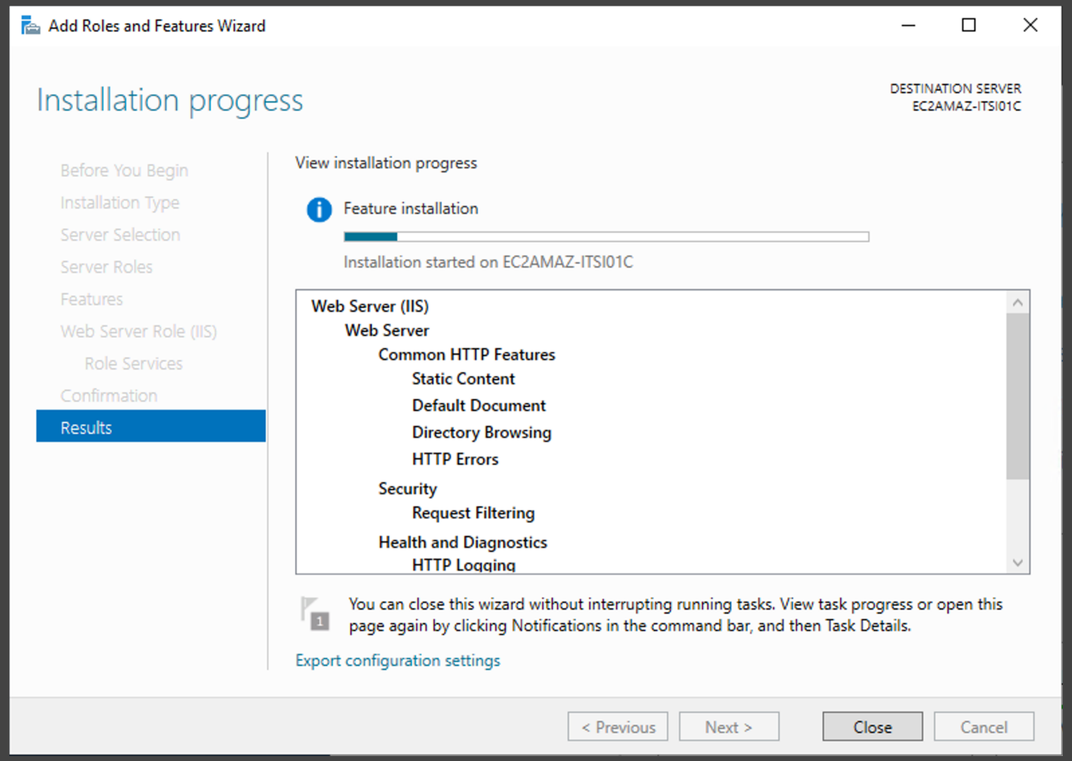
安裝 IIS


Add Roles and Features Wizard
Select role services
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select the role services to install for Web Server (IIS)
Role services
Web Server
Common HTTP Features
Default Document
Directory Browsing
HTTP Errors
Static Content
HTTP Redirection
WebDAV Publishing
Health and Diagnostics
HTTP Logging
Custom Logging
Logging Tools
ODBC Logging
Request Monitor
Tracing
Performance
Static Content Compression
Dynamic Content Compression
Security
Description
Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.
< Previous
Next >
Install
Cancel

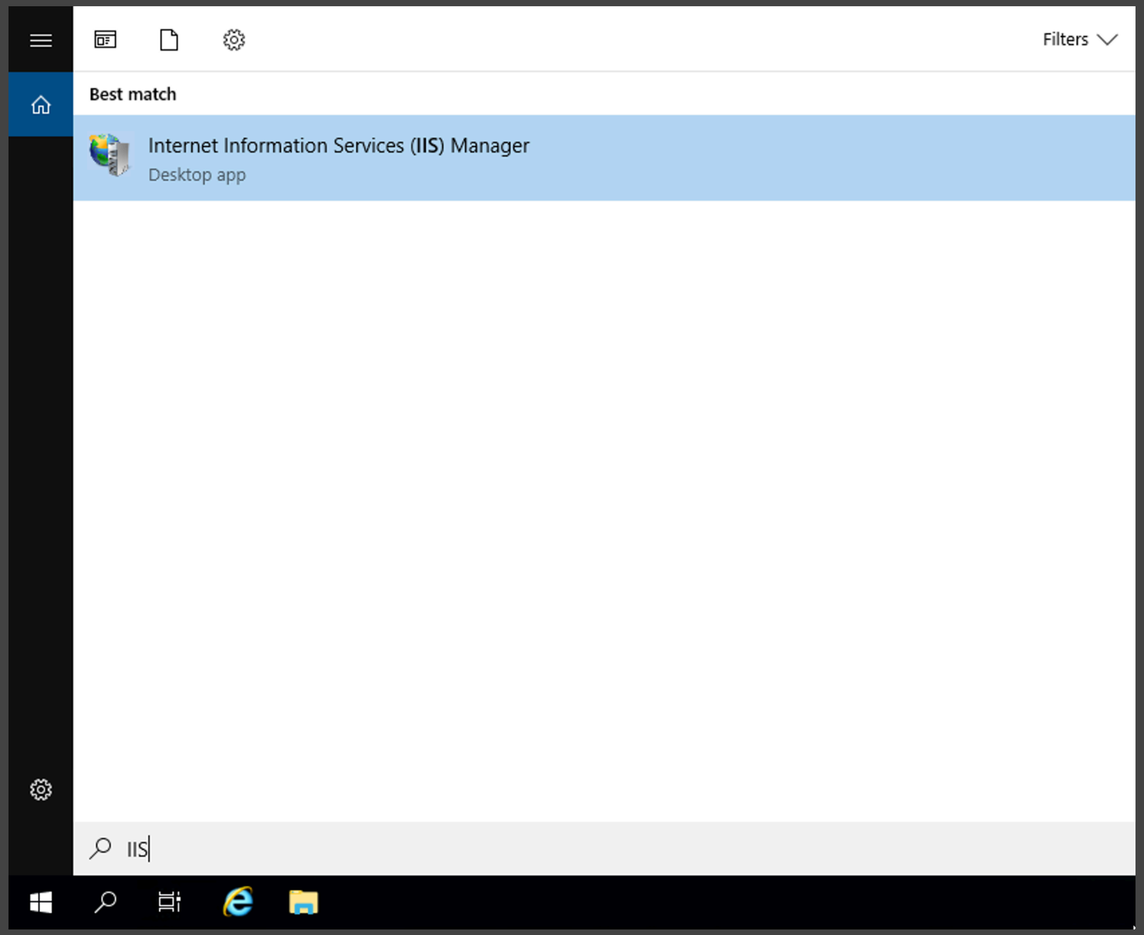
安裝 IIS


Add Roles and Features Wizard
Confirm installation selections
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
To install the following roles, role services, or features on selected server, click Install.
Restart the destination server automatically if required
Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.
Web Server (IIS)
Web Server
Common HTTP Features
Static Content
Default Document
Directory Browsing
HTTP Errors
Security
Request Filtering
Health and Diagnostics
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Cancel

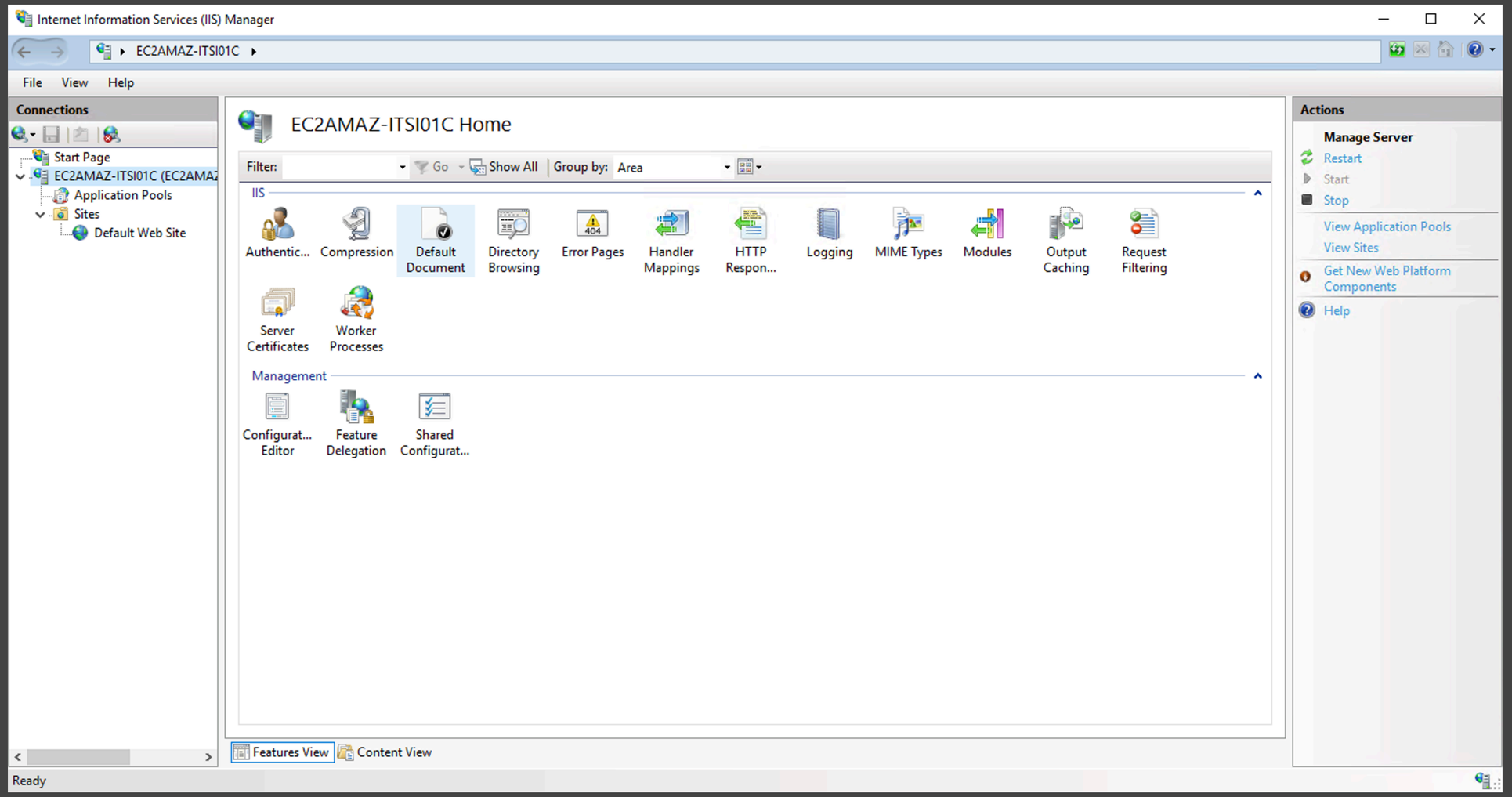
安裝 IIS


Add Roles and Features Wizard
Installation progress
DESTINATION SERVER
EC2AMAZ-ITSI01C
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
View installation progress
Feature installation
Installation started on EC2AMAZ-ITSI01C
Web Server (IIS)
Web Server
Common HTTP Features
Static Content
Default Document
Directory Browsing
HTTP Errors
Security
Request Filtering
Health and Diagnostics
HTTP Logging
You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.
Export configuration settings
< Previous
Next >
Close
Cancel

啟動 IIS

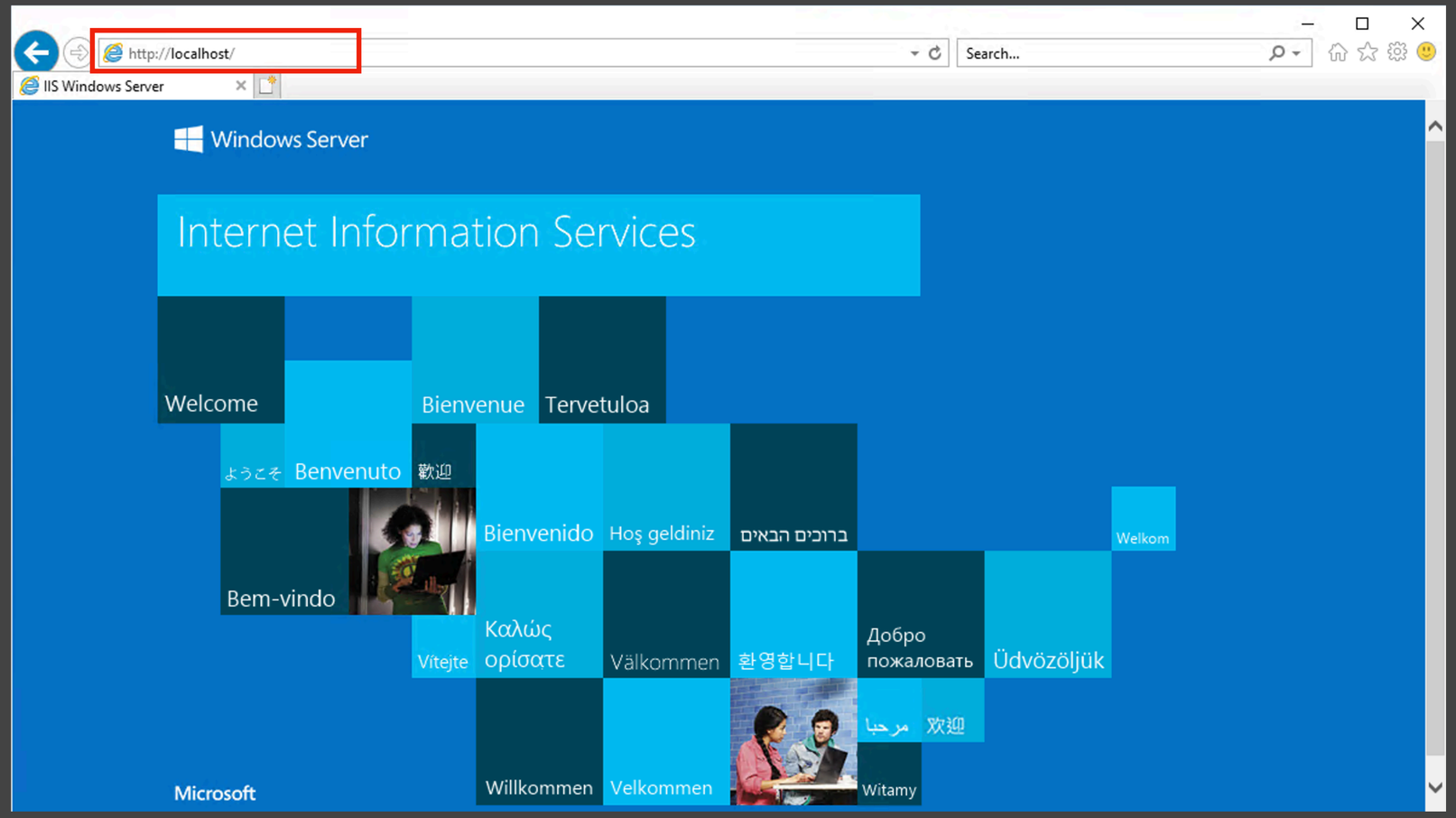

Filters
Best match
Internet Information Services (IIS) Manager
Desktop app
IIS

啟動 IIS


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
EC2AMAZ-ITSI01C Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
Server Certificates
Worker Processes
Management
Configurat... Editor
Feature Delegation
Shared Configurat...
Features View
Content View
Actions
Manage Server
Restart
Start
Stop
View Application Pools
View Sites
Get New Web Platform Components
Help
Ready

開啟網站

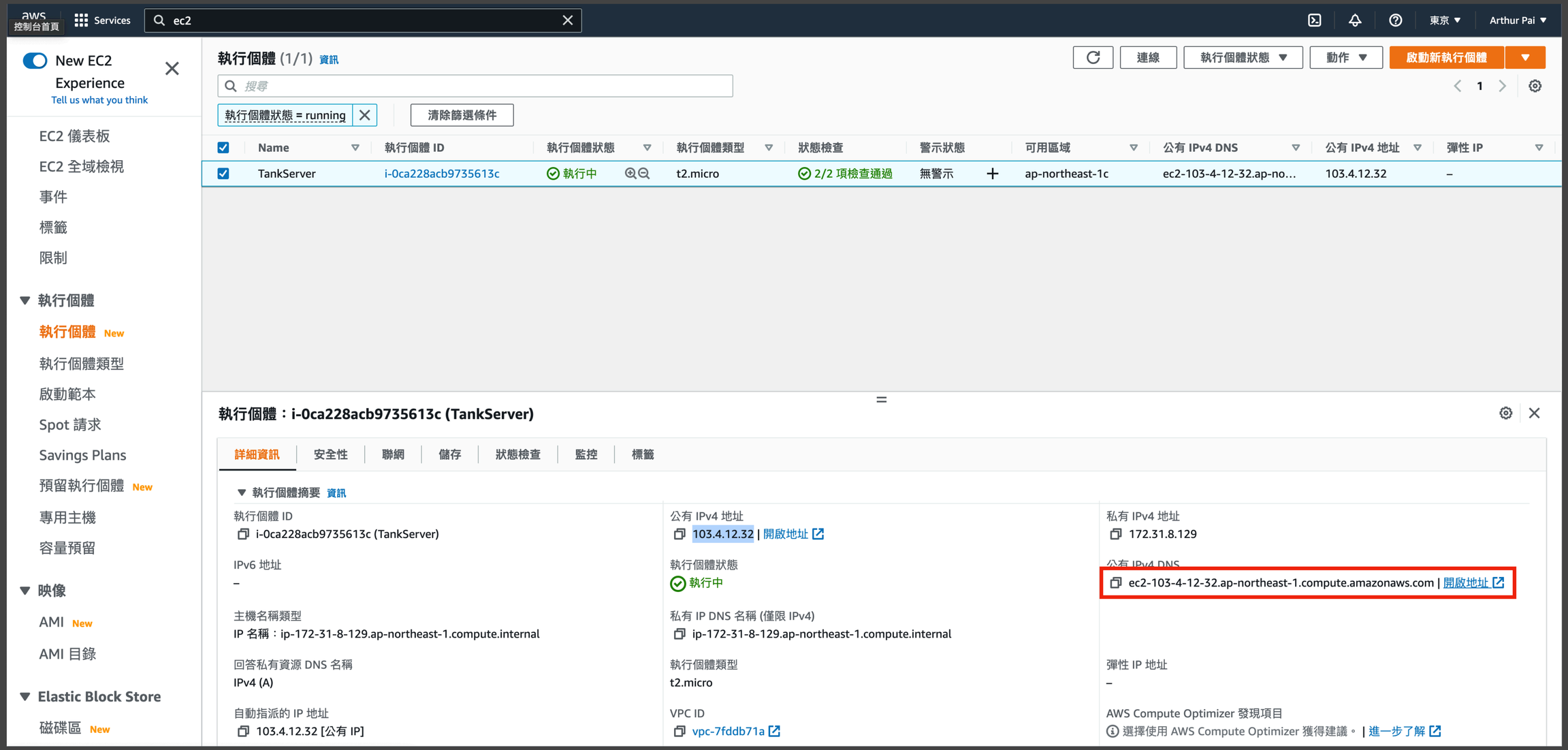
在Server上開啟瀏覽器，網址輸入 localhost



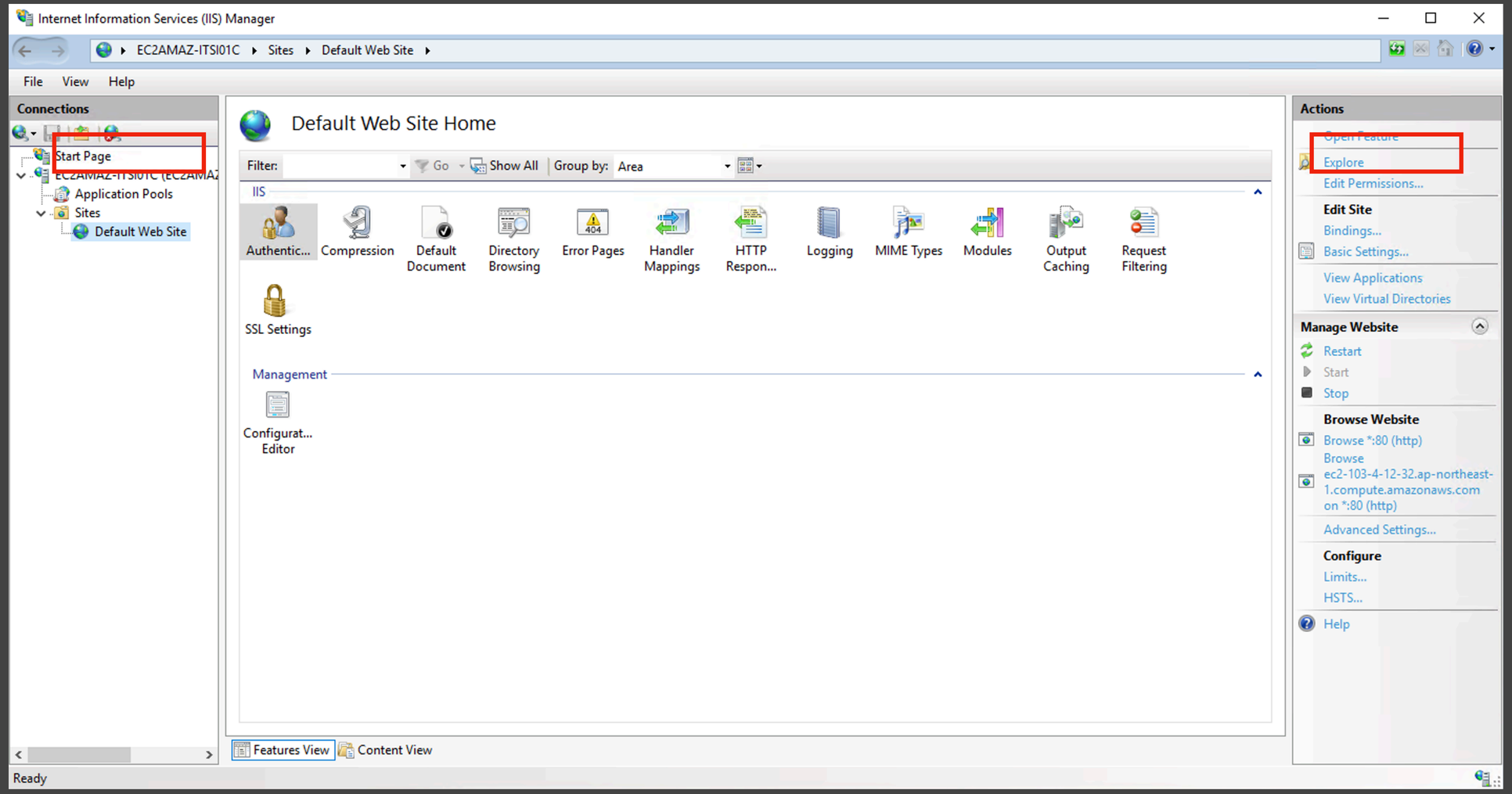
練習 10分鐘

設定遠端開啟網站

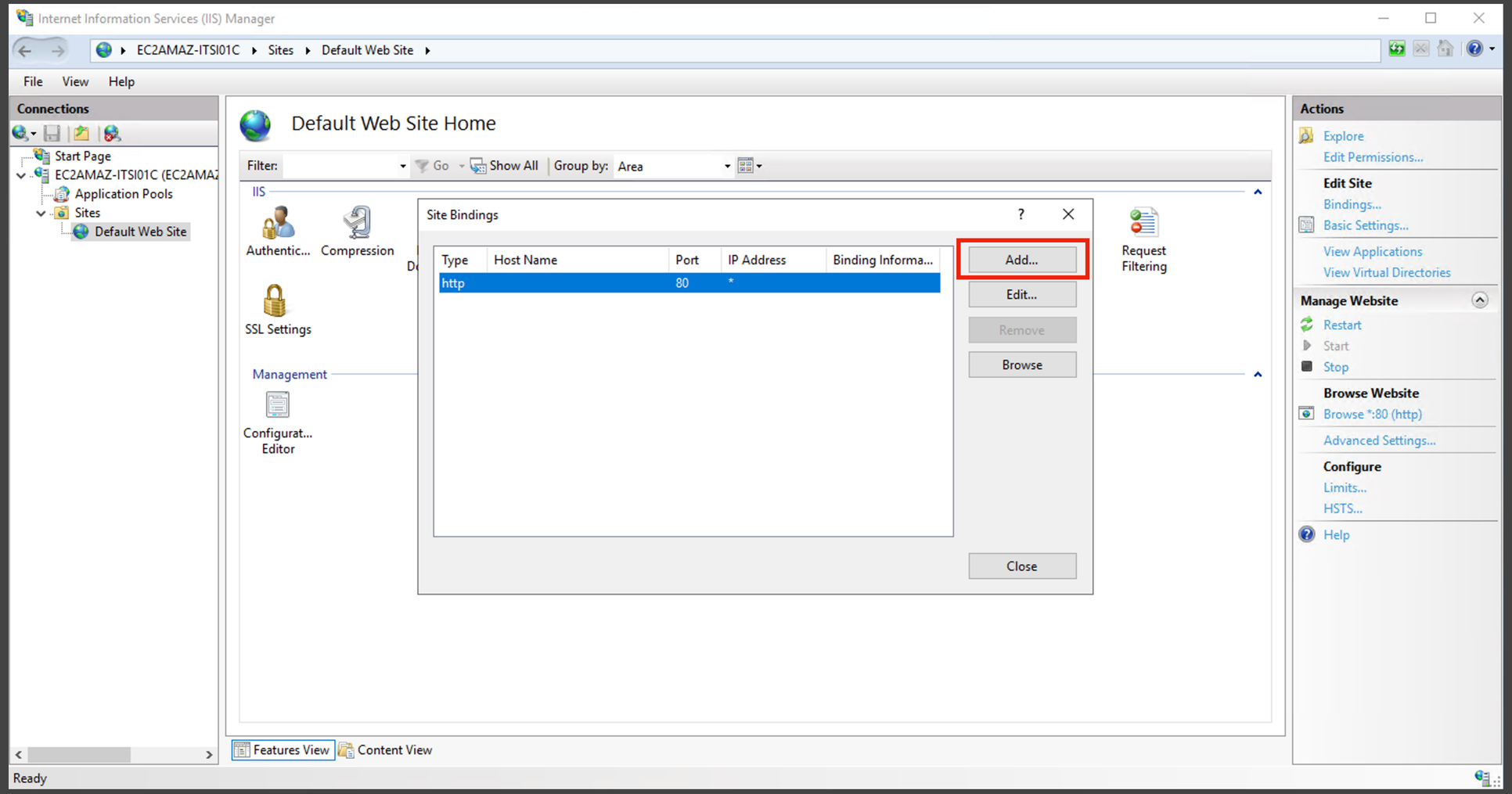
取得網址


aws
控制台首頁
Services
ec2
東京
Arthur Pai
New EC2 Experience
Tell us what you think
EC2 儀表板
EC2 全域檢視
事件
標籤
限制
執行個體
執行個體 New
執行個體類型
啟動範本
Spot 請求
Savings Plans
預留執行個體 New
專用主機
容量預留
映像
AMI New
AMI 目錄
Elastic Block Store
磁碟區 New
執行個體 (1/1) 資訊
連線
執行個體狀態
動作
啟動新執行個體
搜尋
執行個體狀態 = running
清除篩選條件
Name
執行個體 ID
執行個體狀態
執行個體類型
狀態檢查
警示狀態
可用區域
公有 IPv4 DNS
公有 IPv4 地址
彈性 IP
TankServer
i-0ca228acb9735613c
執行中
t2.micro
2/2 項檢查通過
無警示
ap-northeast-1c
ec2-103-4-12-32.ap-no...
103.4.12.32
執行個體：i-0ca228acb9735613c (TankServer)
詳細資訊
安全性
聯網
儲存
狀態檢查
監控
標籤
執行個體摘要 資訊
執行個體 ID
i-0ca228acb9735613c (TankServer)
公有 IPv4 地址
103.4.12.32 | 開啟地址
私有 IPv4 地址
172.31.8.129
IPv6 地址
–
執行個體狀態
執行中
公有 IPv4 DNS
ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com | 開啟地址
主機名稱類型
IP 名稱：ip-172-31-8-129.ap-northeast-1.compute.internal
私有 IP DNS 名稱 (僅限 IPv4)
ip-172-31-8-129.ap-northeast-1.compute.internal
回答私有資源 DNS 名稱
IPv4 (A)
執行個體類型
t2.micro
彈性 IP 地址
–
自動指派的 IP 地址
103.4.12.32 [公有 IP]
VPC ID
vpc-7fddb71a
AWS Compute Optimizer 發現項目
選擇使用 AWS Compute Optimizer 獲得建議。 | 進一步了解

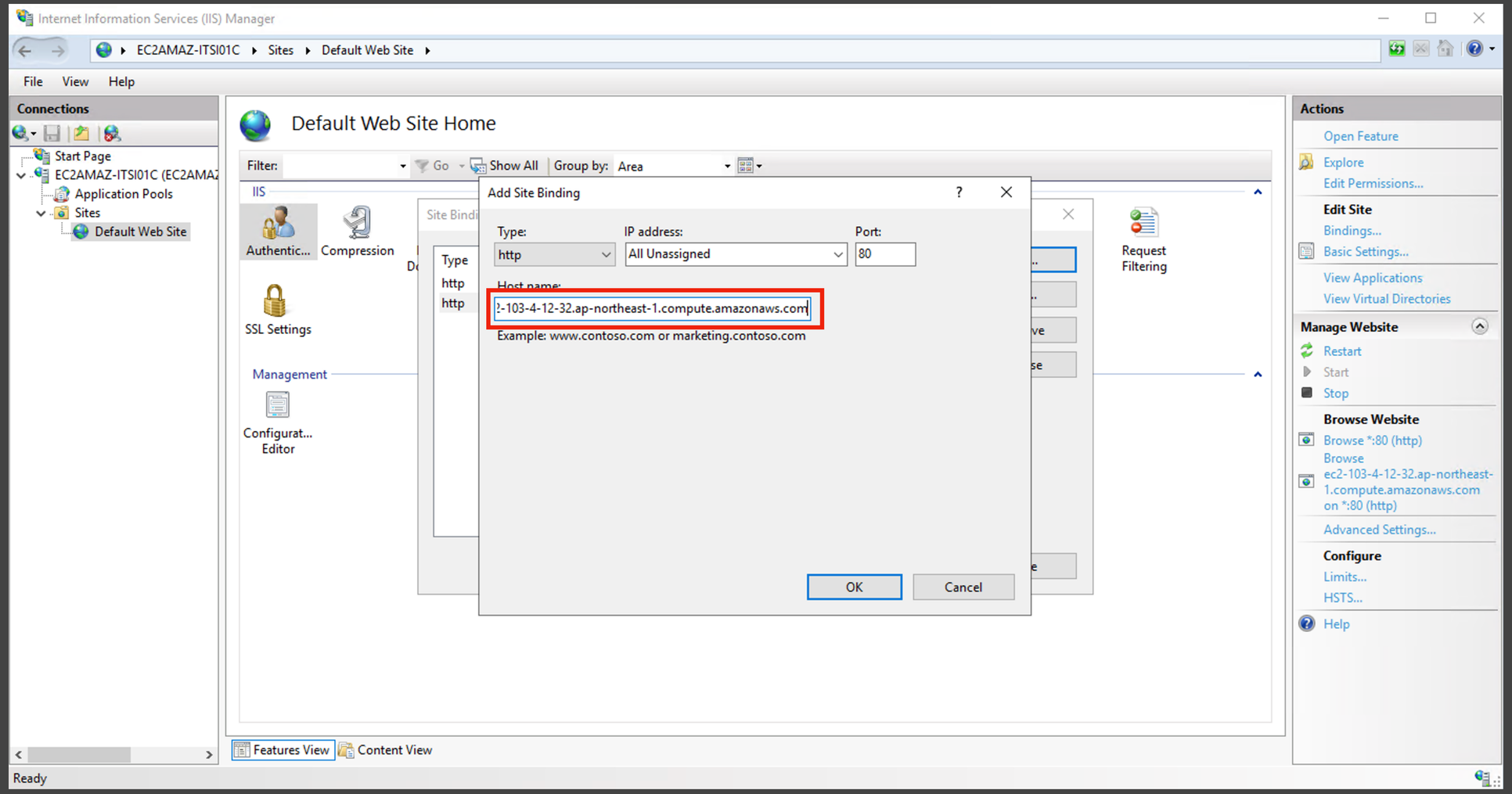
設定網址


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ Default Web Site ▸
File View Help
Connections
Start Page
Application Pools
Sites
Default Web Site
Default Web Site Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
SSL Settings
Management
Configurat... Editor
Features View
Content View
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse *:80 (http)
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Ready

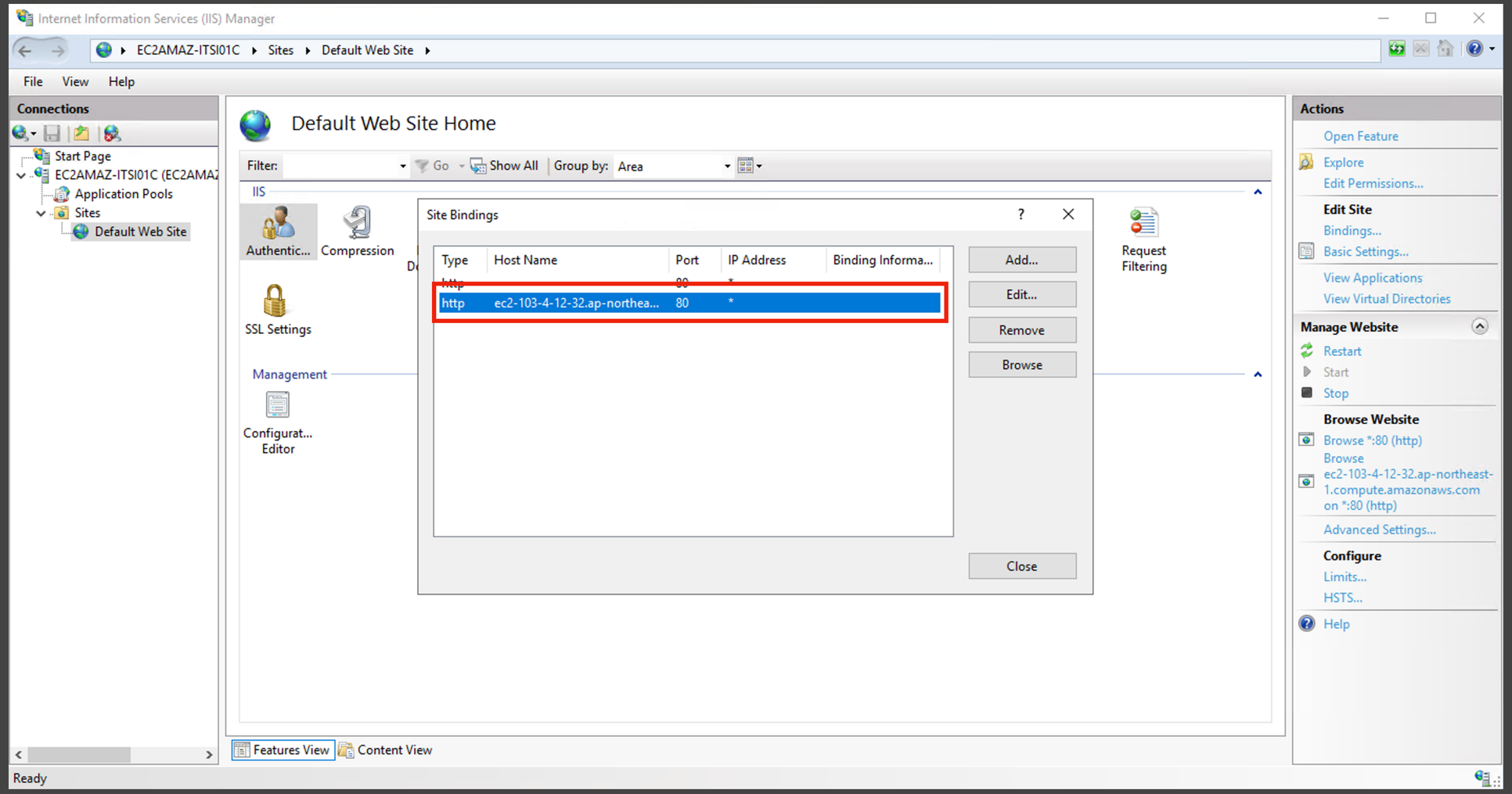
設定網址


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ Default Web Site ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Default Web Site Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
SSL Settings
Management
Configurat... Editor
Request Filtering
Site Bindings
Type
Host Name
Port
IP Address
Binding Informa...
http
80
*
Add...
Edit...
Remove
Browse
Close
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Features View
Content View
Ready

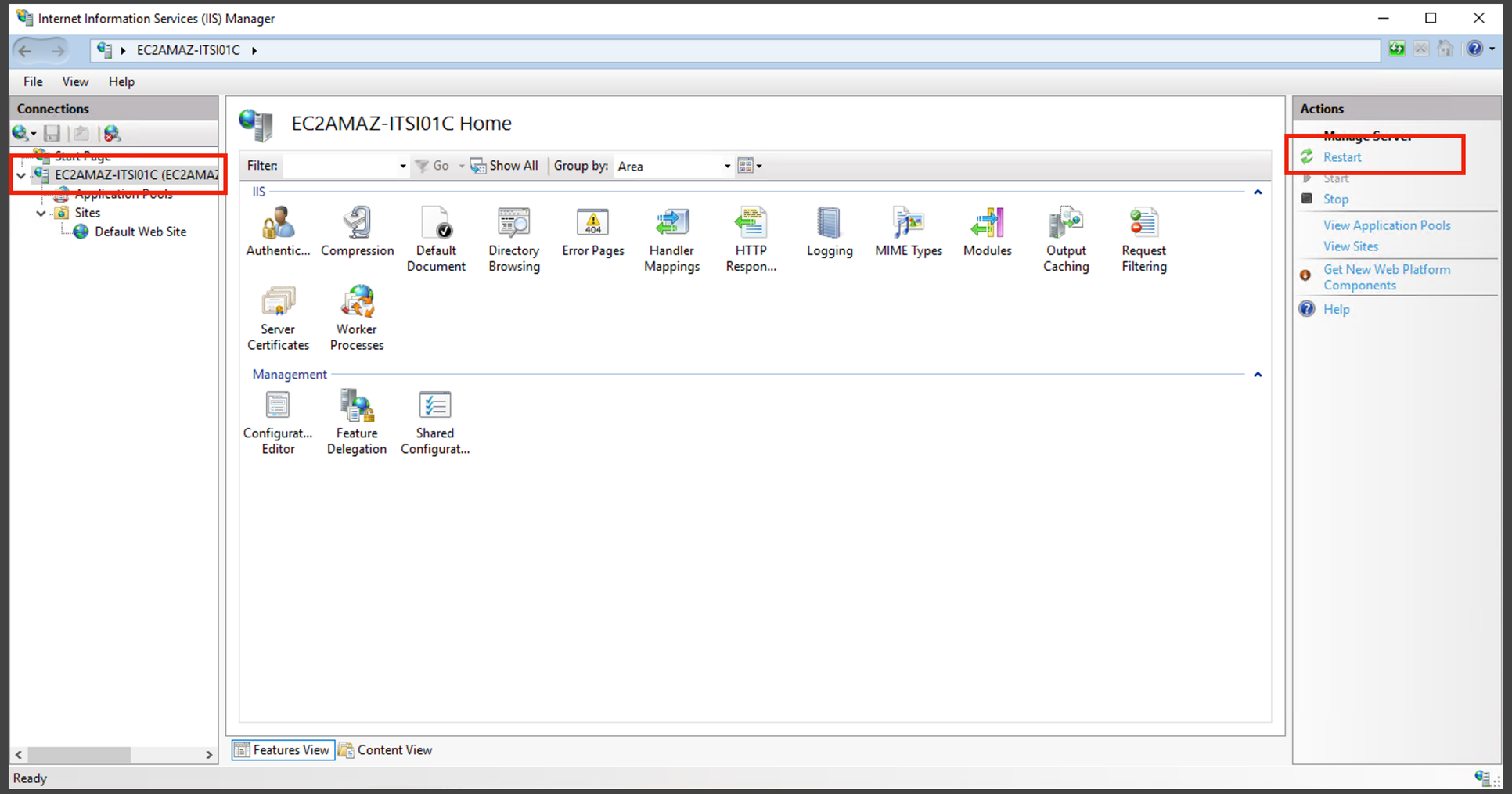
設定網址


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ Default Web Site ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Default Web Site Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
SSL Settings
Management
Configurat... Editor
Request Filtering
Add Site Binding
Type:
IP address:
Port:
http
All Unassigned
80
Host name:
?-103-4-12-32.ap-northeast-1.compute.amazonaws.com
Example: www.contoso.com or marketing.contoso.com
OK
Cancel
Actions
Open Feature
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse *:80 (http)
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Features View
Content View
Ready

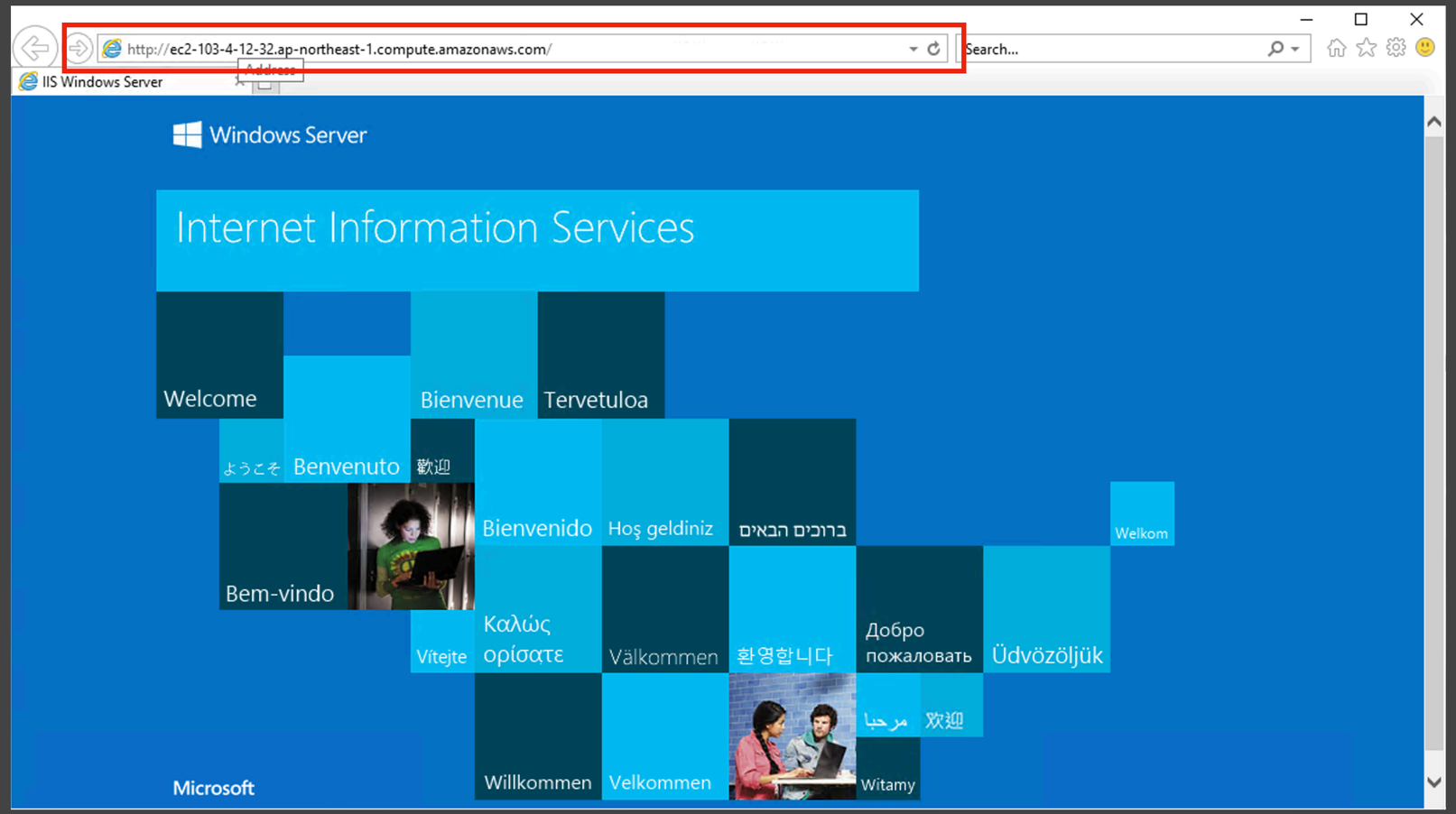
設定網址


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ Default Web Site ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Default Web Site Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
SSL Settings
Management
Configurat... Editor
Request Filtering
Site Bindings
Type
Host Name
Port
IP Address
Binding Informa...
http
80
*
http
ec2-103-4-12-32.ap-northea...
80
*
Add...
Edit...
Remove
Browse
Close
Features View
Content View
Ready
Actions
Open Feature
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse *:80 (http)
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help

重啟網站


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
EC2AMAZ-ITSI01C Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
Server Certificates
Worker Processes
Management
Configurat... Editor
Feature Delegation
Shared Configurat...
Features View
Content View
Actions
Manage Server
Restart
Start
Stop
View Application Pools
View Sites
Get New Web Platform Components
Help
Ready

開啟網站


http://ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com/
Search...
IIS Windows Server
Windows Server
Internet Information Services
Welcome
Bienvenue
Tervetuloa
ようこそ
Benvenuto
歡迎
Bienvenido
Hoş geldiniz
ברוכים הבאים
Welkom
Bem-vindo
Vítejte
Καλώς ορίσατε
Välkommen
환영합니다
Добро пожаловать
Üdvözöljük
مرحبا
欢迎
Willkommen
Velkommen
Witamy
Microsoft

練習 10分鐘

安裝 .NET Core

安裝 .NET Core

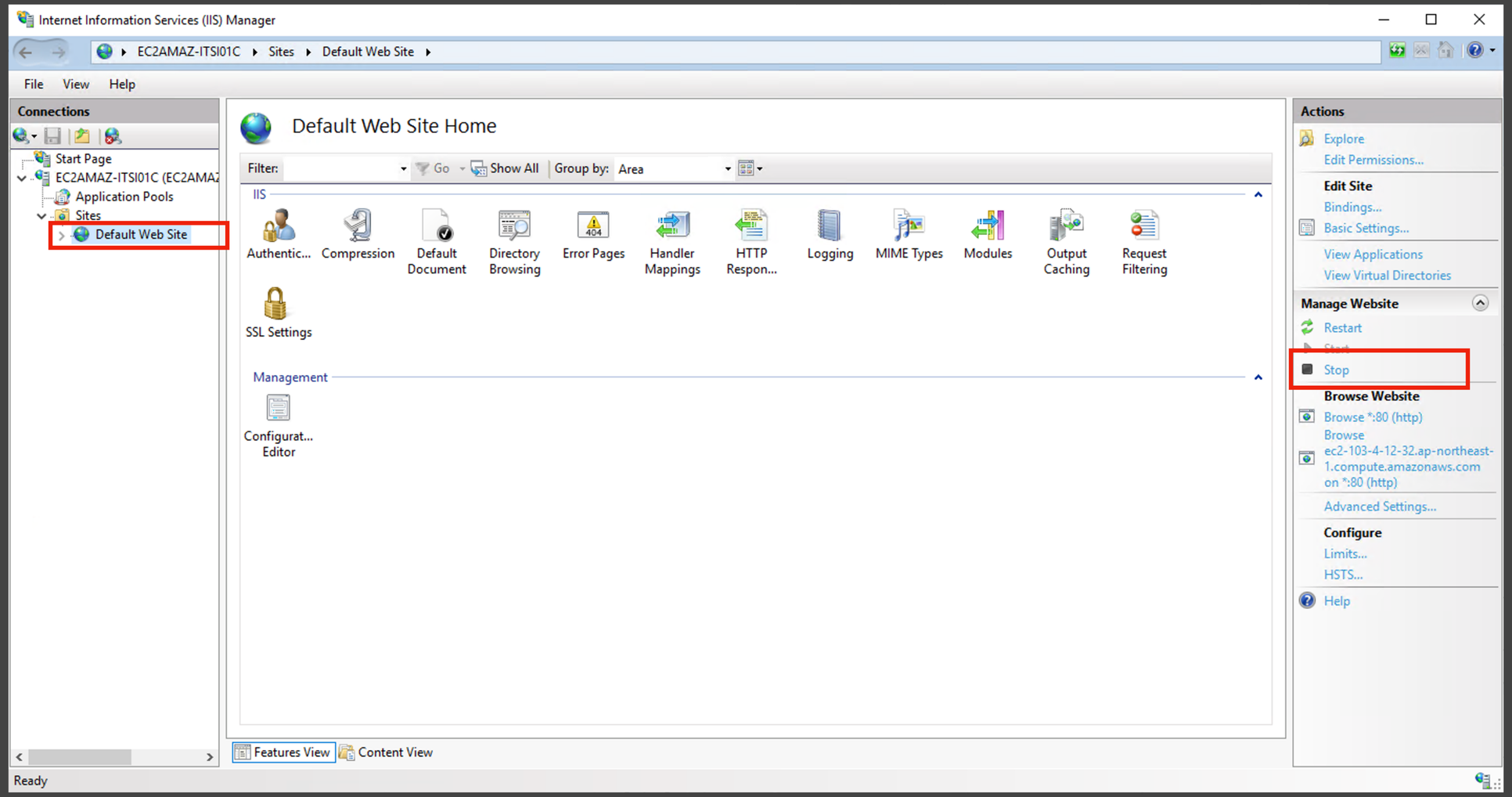
- 建議安裝 Chrome
- 在Server上，下載 .NET Core 裝載套件組合安裝程式

https://docs.microsoft.com/zh-tw/aspnet/core/host-and-deploy/iis/?view=aspnetcore-6.0#iis-configuration

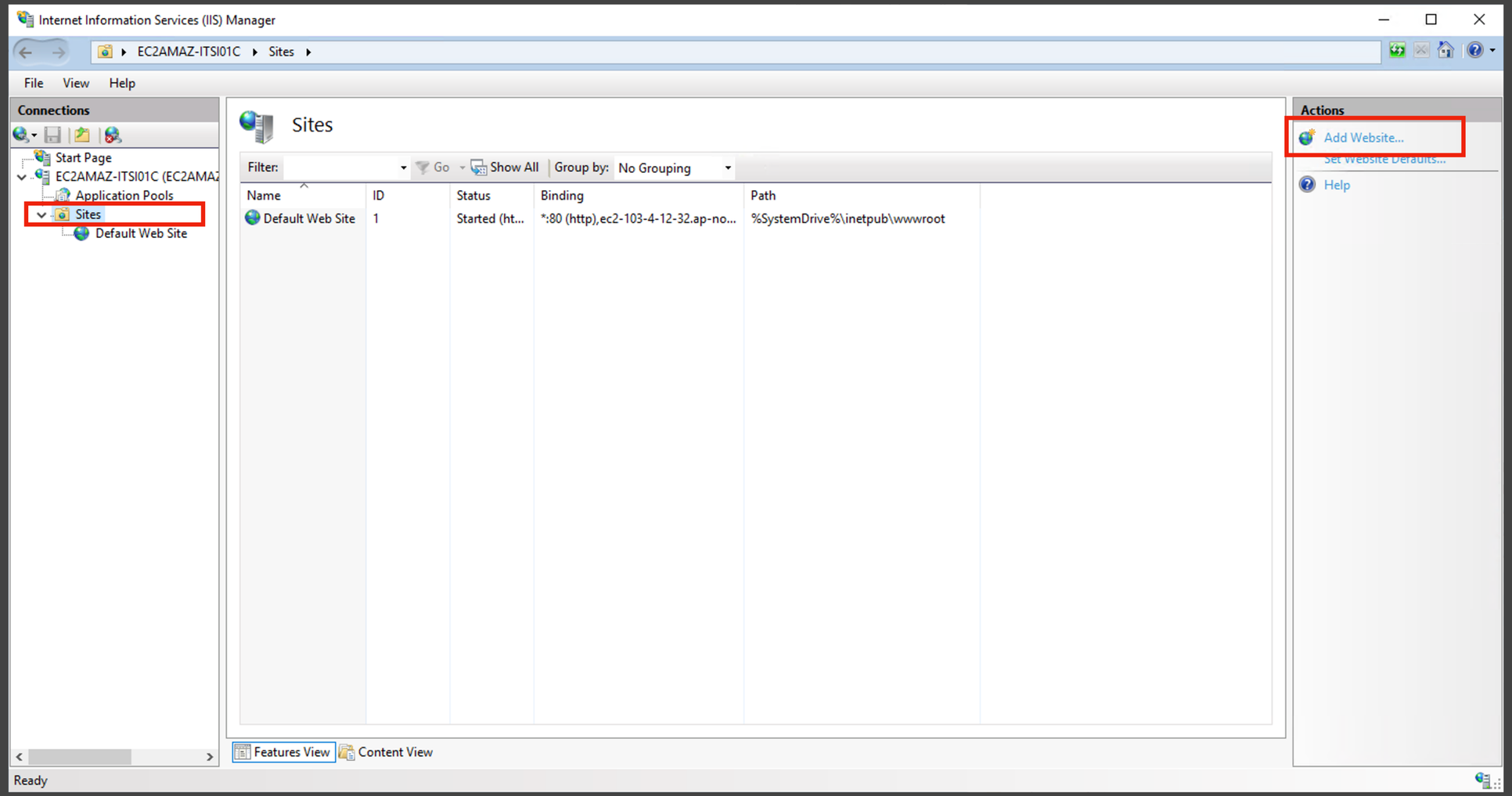
練習 5分鐘

新增網站

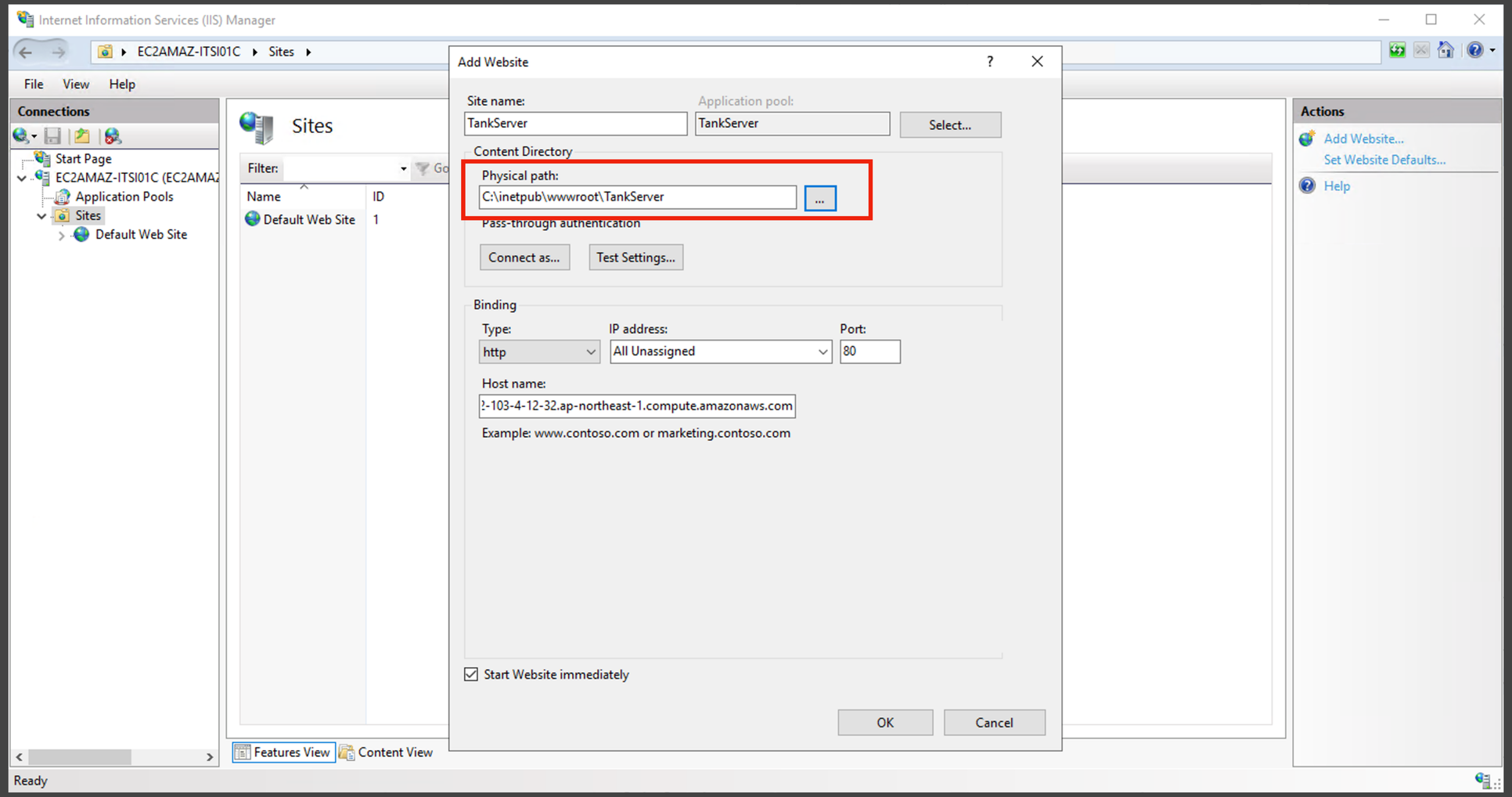
關閉預設網站


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ Default Web Site ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Default Web Site Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
SSL Settings
Management
Configurat... Editor
Features View
Content View
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse *:80 (http)
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Ready

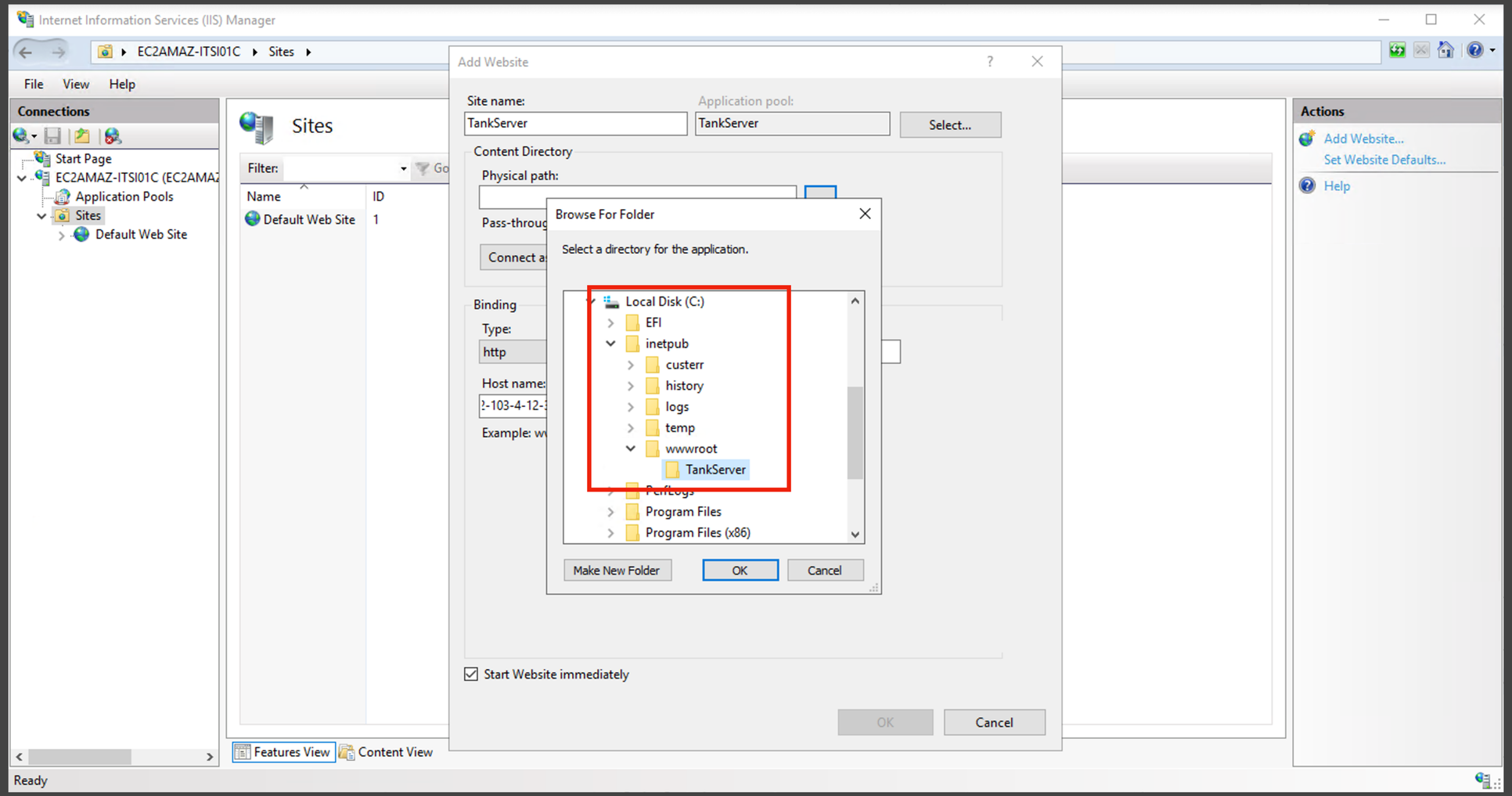
新增 Tank 網站


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Sites
Filter:
Go
Show All
Group by: No Grouping
Name
ID
Status
Binding
Path
Default Web Site
1
Started (ht...
*:80 (http),ec2-103-4-12-32.ap-no...
%SystemDrive%\inetpub\wwwroot
Actions
Add Website...
Help
Features View
Content View
Ready

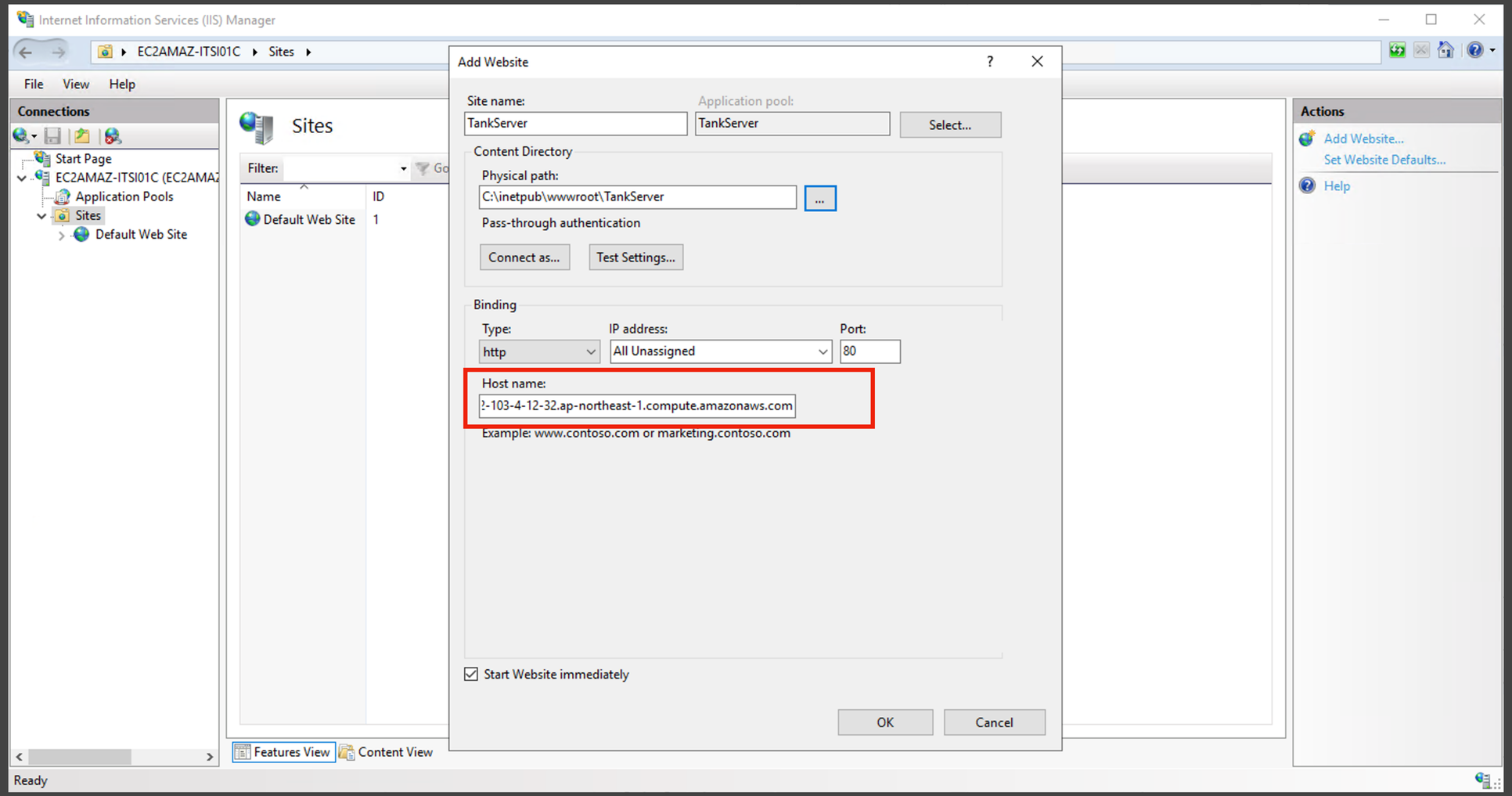
指定網站程式位置


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Sites
Filter:
Name
ID
Default Web Site
1
Features View
Content View
Ready
Actions
Add Website...
Set Website Defaults...
Help
Add Website
Site name:
TankServer
Application pool:
TankServer
Select...
Content Directory
Physical path:
C:\inetpub\wwwroot\TankServer
...
Pass-through authentication
Connect as...
Test Settings...
Binding
Type:
http
IP address:
All Unassigned
Port:
80
Host name:
?-103-4-12-32.ap-northeast-1.compute.amazonaws.com
Example: www.contoso.com or marketing.contoso.com
Start Website immediately
OK
Cancel

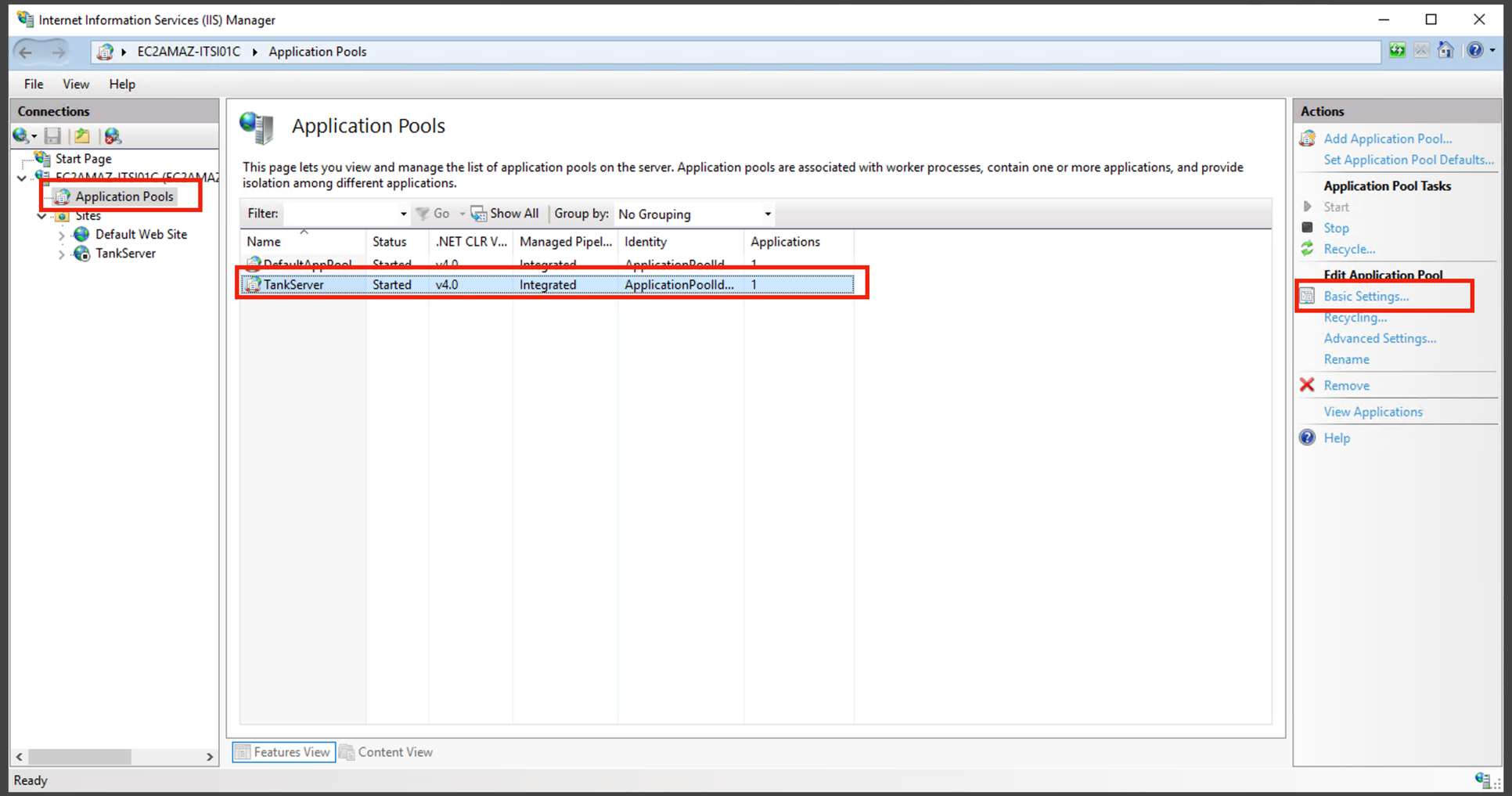
指定網站程式位置


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Sites
Filter:
Name
ID
Default Web Site
1
Features View
Content View
Ready
Actions
Add Website...
Set Website Defaults...
Help
Add Website
Site name:
TankServer
Application pool:
TankServer
Select...
Content Directory
Physical path:
Pass-through
Connect as...
Binding
Type:
http
Host name:
Example:
Start Website immediately
OK
Cancel
Browse For Folder
Select a directory for the application.
Local Disk (C:)
EFI
inetpub
custerr
history
logs
temp
wwwroot
TankServer
PerfLogs
Program Files
Program Files (x86)
Make New Folder
OK
Cancel

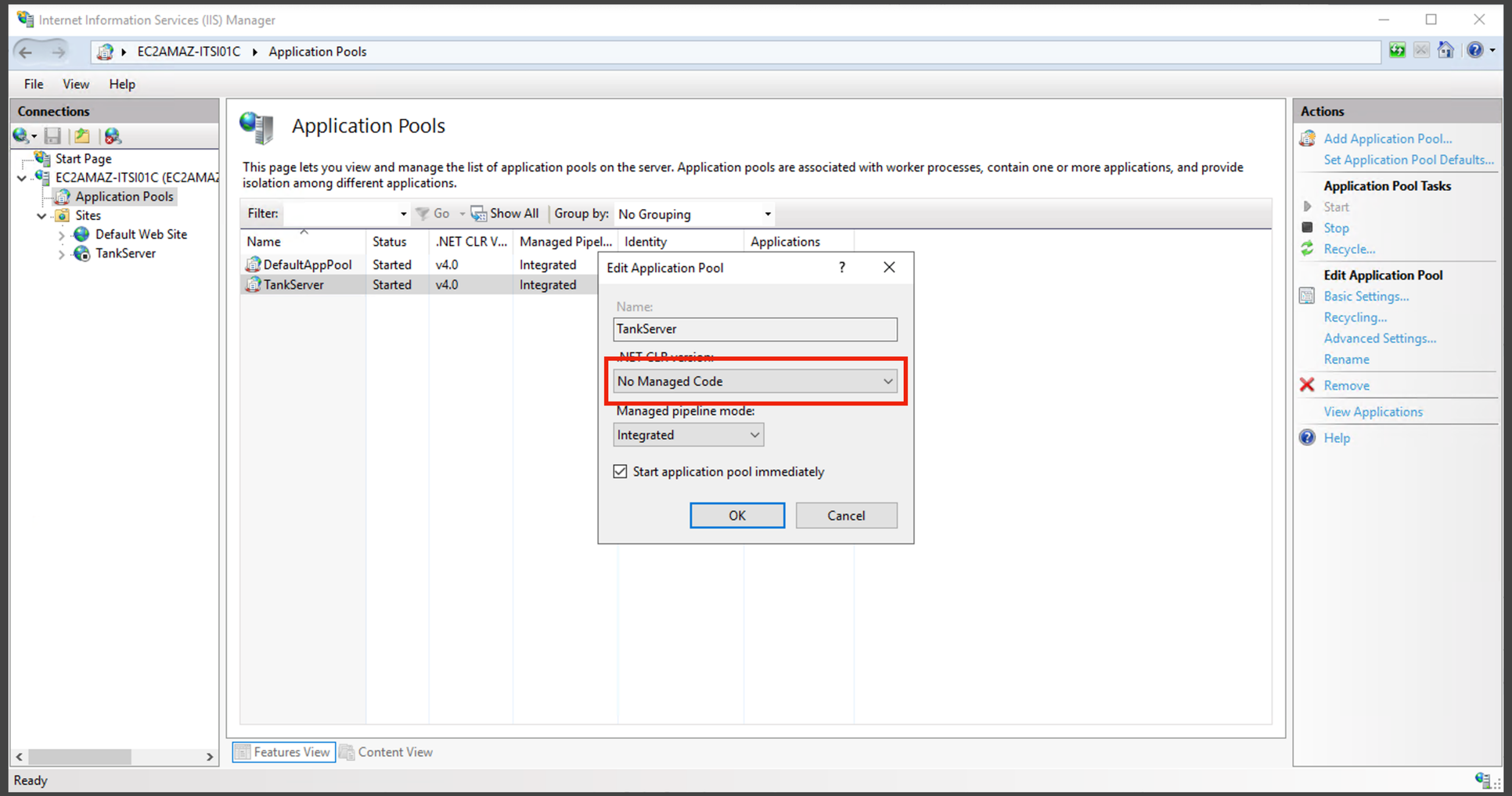
設定網址


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
Sites
Filter:
Name
ID
Default Web Site
1
Features View
Content View
Ready
Add Website
Site name:
TankServer
Application pool:
TankServer
Select...
Content Directory
Physical path:
C:\inetpub\wwwroot\TankServer
...
Pass-through authentication
Connect as...
Test Settings...
Binding
Type:
http
IP address:
All Unassigned
Port:
80
Host name:
?-103-4-12-32.ap-northeast-1.compute.amazonaws.com
Example: www.contoso.com or marketing.contoso.com
Start Website immediately
OK
Cancel
Actions
Add Website...
Set Website Defaults...
Help

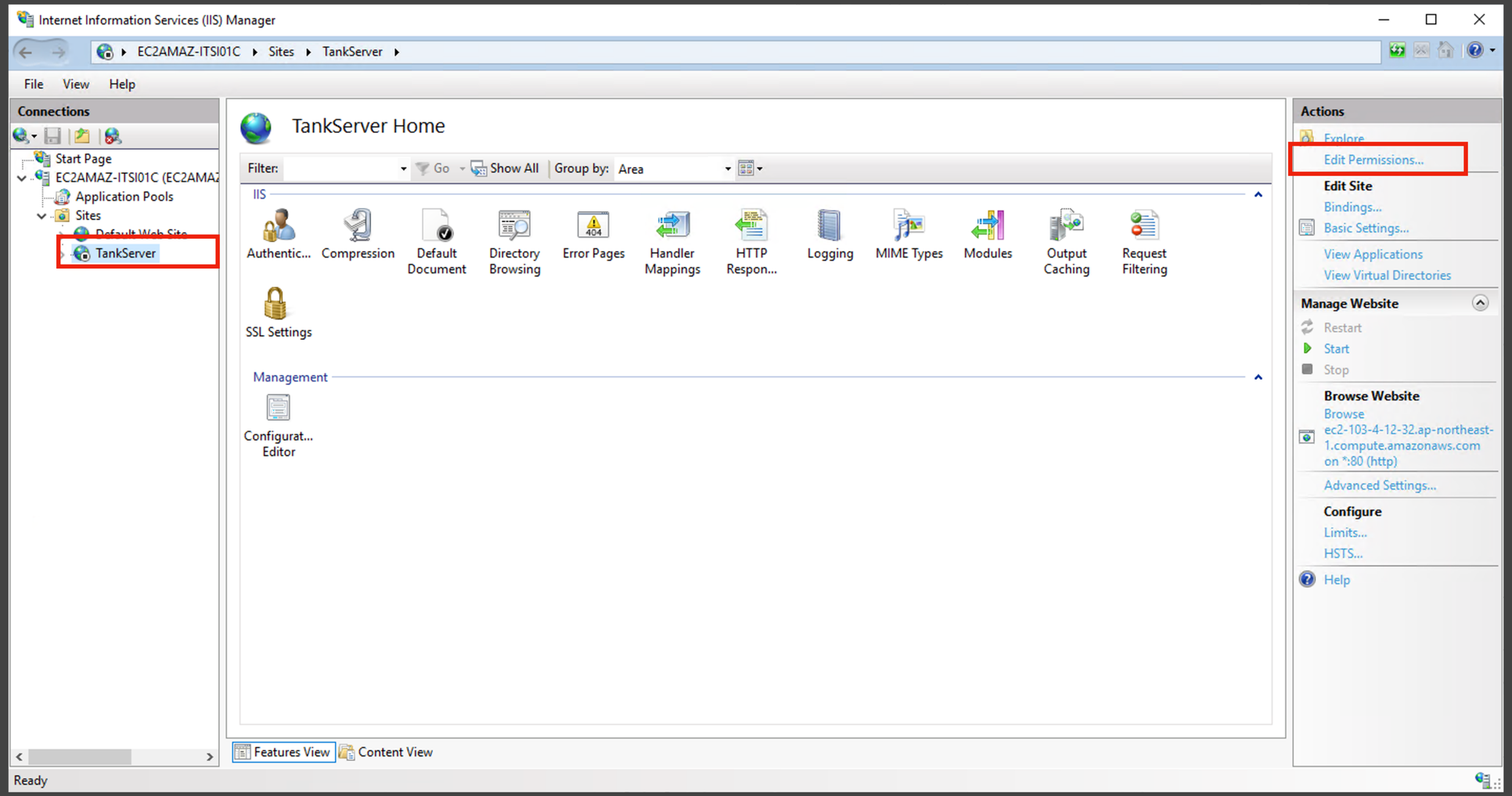
設定網站


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Application Pools
File View Help
Connections
Start Page
Application Pools
Sites
Default Web Site
TankServer
Application Pools
This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.
Filter: Go Show All Group by: No Grouping
Name Status .NET CLR V... Managed Pipel... Identity Applications
TankServer Started v4.0 Integrated ApplicationPoolId... 1
Features View Content View
Ready
Actions
Add Application Pool...
Set Application Pool Defaults...
Application Pool Tasks
Start
Stop
Recycle...
Edit Application Pool
Basic Settings...
Recycling...
Advanced Settings...
Rename
Remove
View Applications
Help

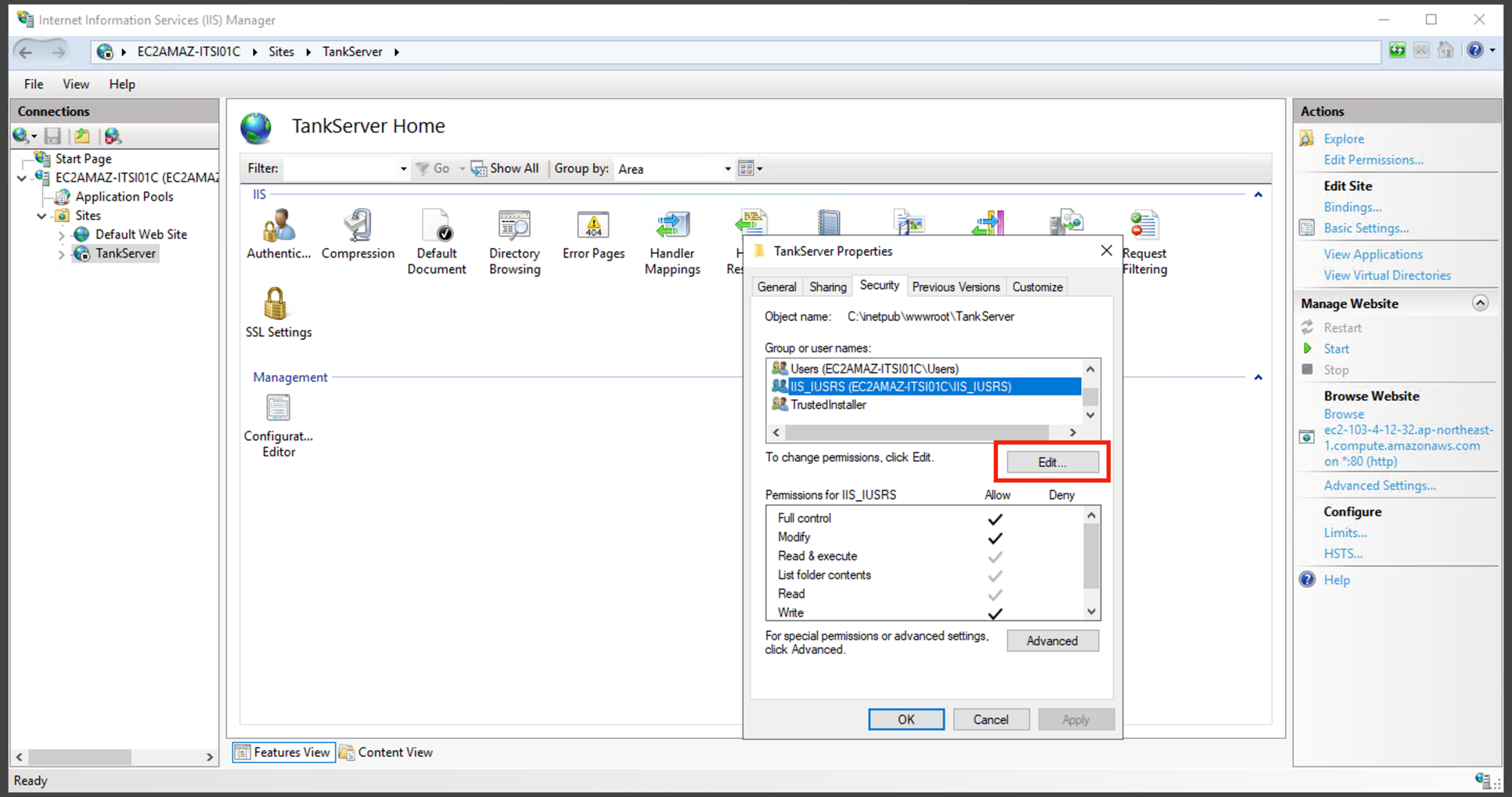
設定網站


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Application Pools
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
TankServer
Application Pools
This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.
Filter: Go Show All Group by: No Grouping
Name Status .NET CLR V... Managed Pipel... Identity Applications
DefaultAppPool Started v4.0 Integrated
TankServer Started v4.0 Integrated
Edit Application Pool
Name:
TankServer
.NET CLR version:
No Managed Code
Managed pipeline mode:
Integrated
Start application pool immediately
OK
Cancel
Actions
Add Application Pool...
Set Application Pool Defaults...
Application Pool Tasks
Start
Stop
Recycle...
Edit Application Pool
Basic Settings...
Recycling...
Advanced Settings...
Rename
Remove
View Applications
Help
Features View
Content View
Ready

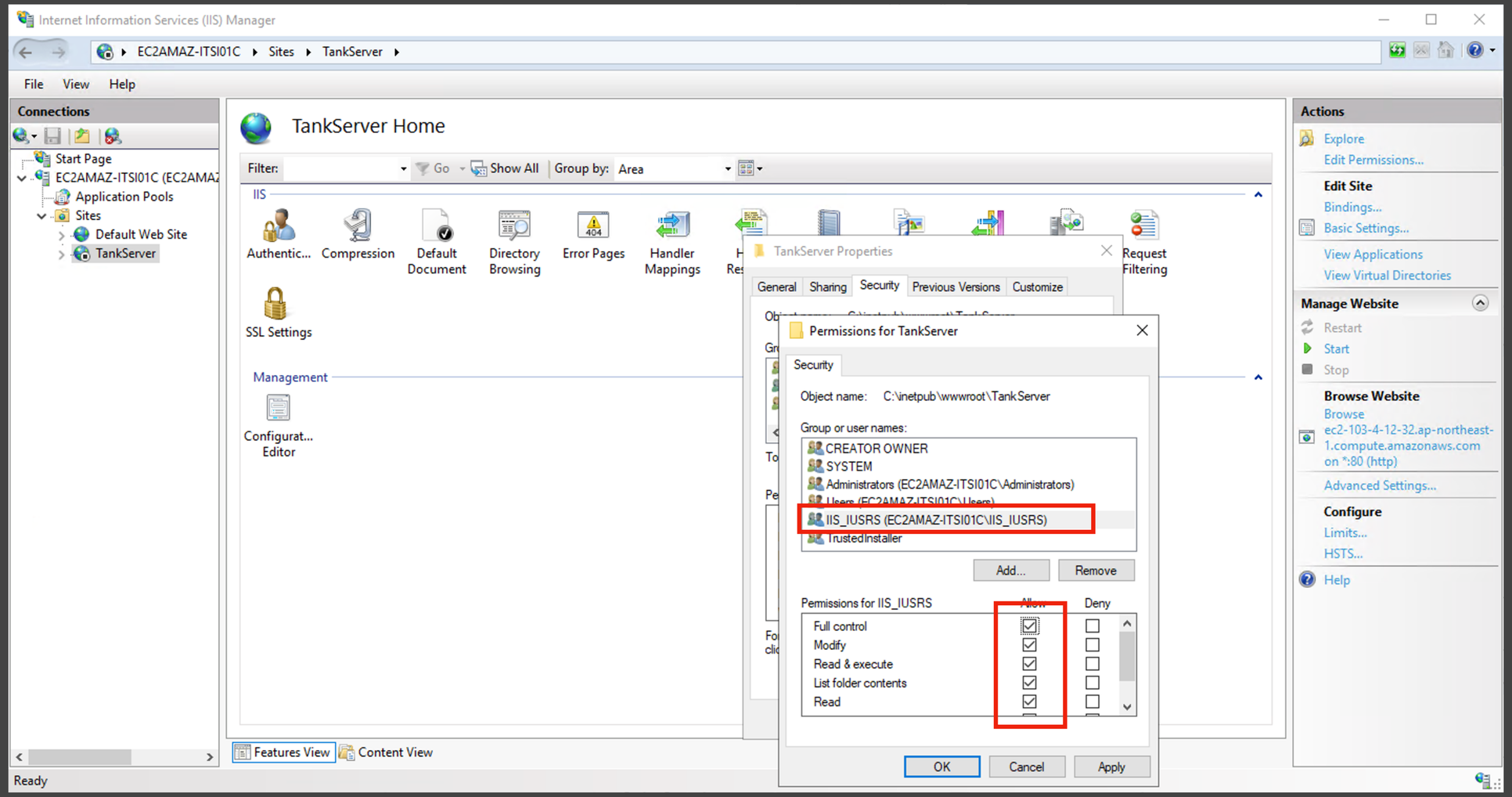
設定網站


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ TankServer ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
TankServer
TankServer Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
SSL Settings
Management
Configurat... Editor
Features View
Content View
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Ready

設定目錄權限


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ TankServer ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
TankServer
TankServer Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
Request Filtering
SSL Settings
Management
Configurat... Editor
TankServer Properties
General
Sharing
Security
Previous Versions
Customize
Object name: C:\inetpub\wwwroot\TankServer
Group or user names:
Users (EC2AMAZ-ITSI01C\Users)
IIS_IUSRS (EC2AMAZ-ITSI01C\IIS_IUSRS)
TrustedInstaller
To change permissions, click Edit.
Edit...
Permissions for IIS_IUSRS
Allow
Deny
Full control
Modify
Read & execute
List folder contents
Read
Write
For special permissions or advanced settings, click Advanced.
Advanced
OK
Cancel
Apply
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Features View
Content View
Ready

設定目錄權限


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ TankServer ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
Sites
Default Web Site
TankServer
TankServer Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
Request Filtering
SSL Settings
Management
Configurat... Editor
Features View
Content View
Ready
TankServer Properties
General
Sharing
Security
Previous Versions
Customize
Permissions for TankServer
Security
Object name: C:\inetpub\wwwroot\TankServer
Group or user names:
CREATOR OWNER
SYSTEM
Administrators (EC2AMAZ-ITSI01C\Administrators)
IIS_IUSRS (EC2AMAZ-ITSI01C\IIS_IUSRS)
TrustedInstaller
Add...
Remove
Permissions for IIS_IUSRS
Allow
Deny
Full control
Modify
Read & execute
List folder contents
Read
OK
Cancel
Apply
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help

練習 10分鐘

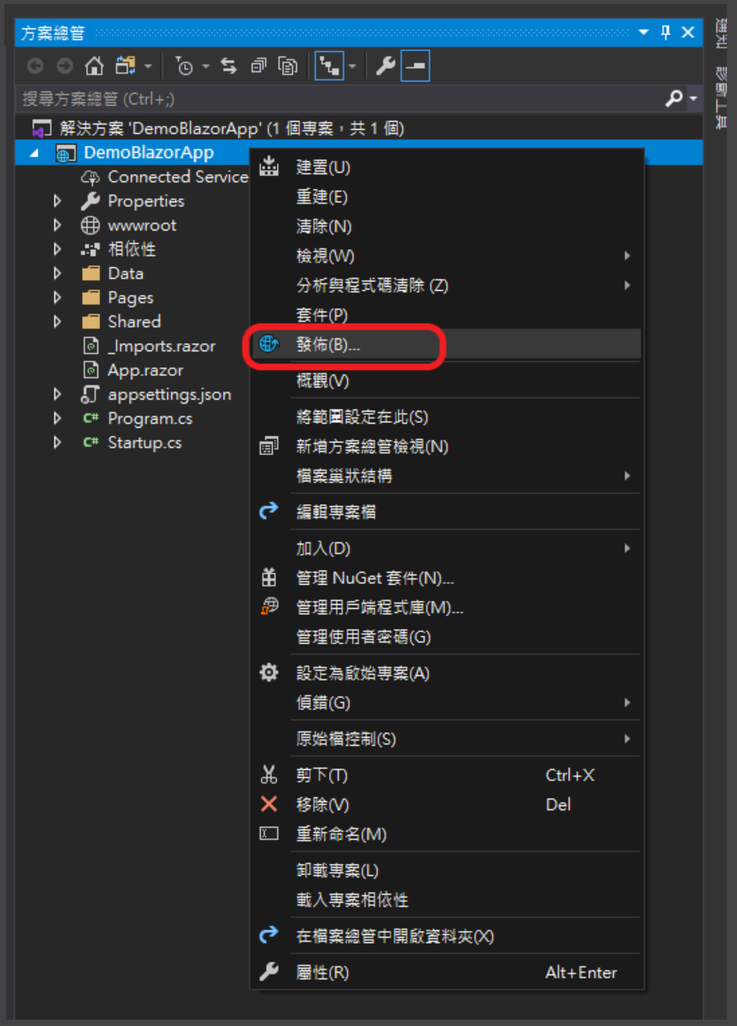
部署 Tank Server

關閉強制導向 https

```
using Microsoft.EntityFrameworkCore;
using TankServer.Models;

var builder = WebApplication.CreateBuilder(args);

// Add services to the container.

builder.Services.AddControllers();

builder.Services.AddDbContext<TankContext>(opt =>
  opt.UseInMemoryDatabase("TankDB"));

// Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
builder.Services.AddEndpointsApiExplorer();
builder.Services.AddSwaggerGen();

var app = builder.Build();

// Configure the HTTP request pipeline.
if (app.Environment.IsDevelopment())
{
  app.UseDeveloperExceptionPage();
  app.UseSwagger();
  app.UseSwaggerUI();
}

// app.UseHttpsRedirection();

app.UseAuthorization();

app.MapControllers();

app.Run();

…
```

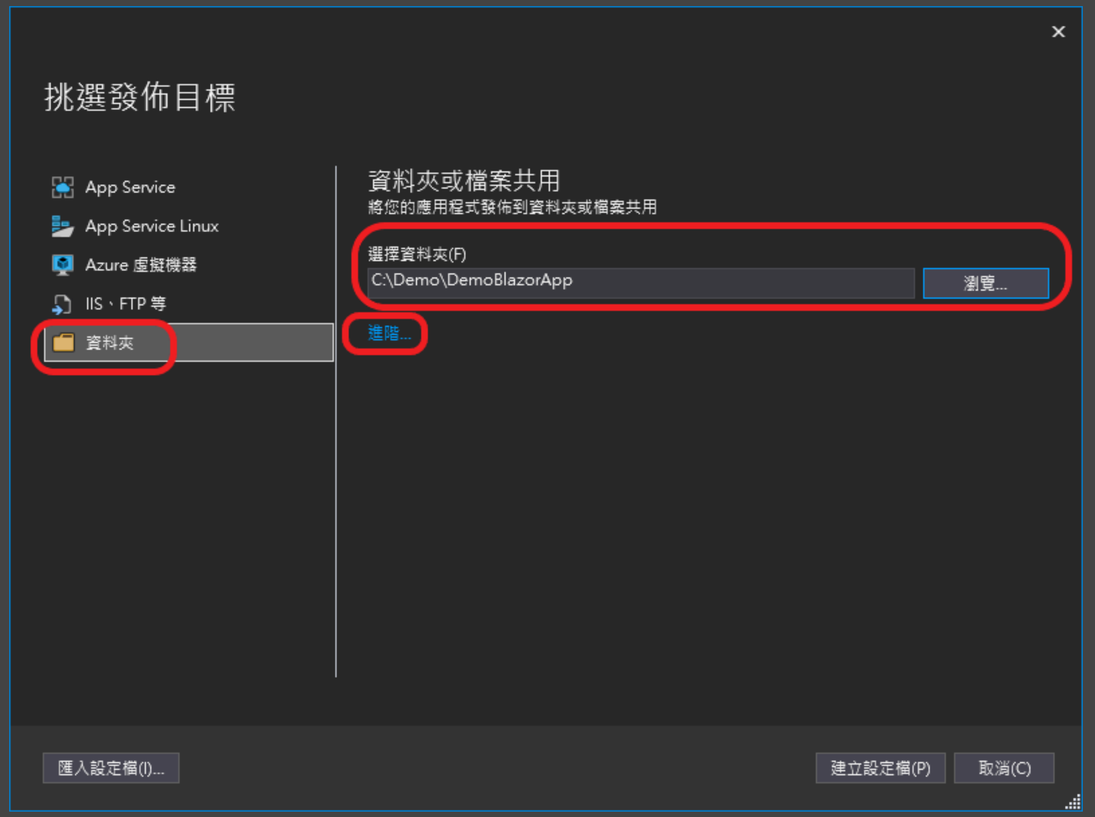
打包 Server 程式

- 以滑鼠右鍵按一下 [方案總管] 中的專案，再選取 [發佈]
- 在 [挑選發佈目標] 對話方塊中，選取 [資料夾] 發佈選項
- 設定 [資料夾或檔案共用] 路徑
- 選取 [發佈] 按鈕
- 加發佈後的資料夾壓縮
- 並且拷貝到Server上

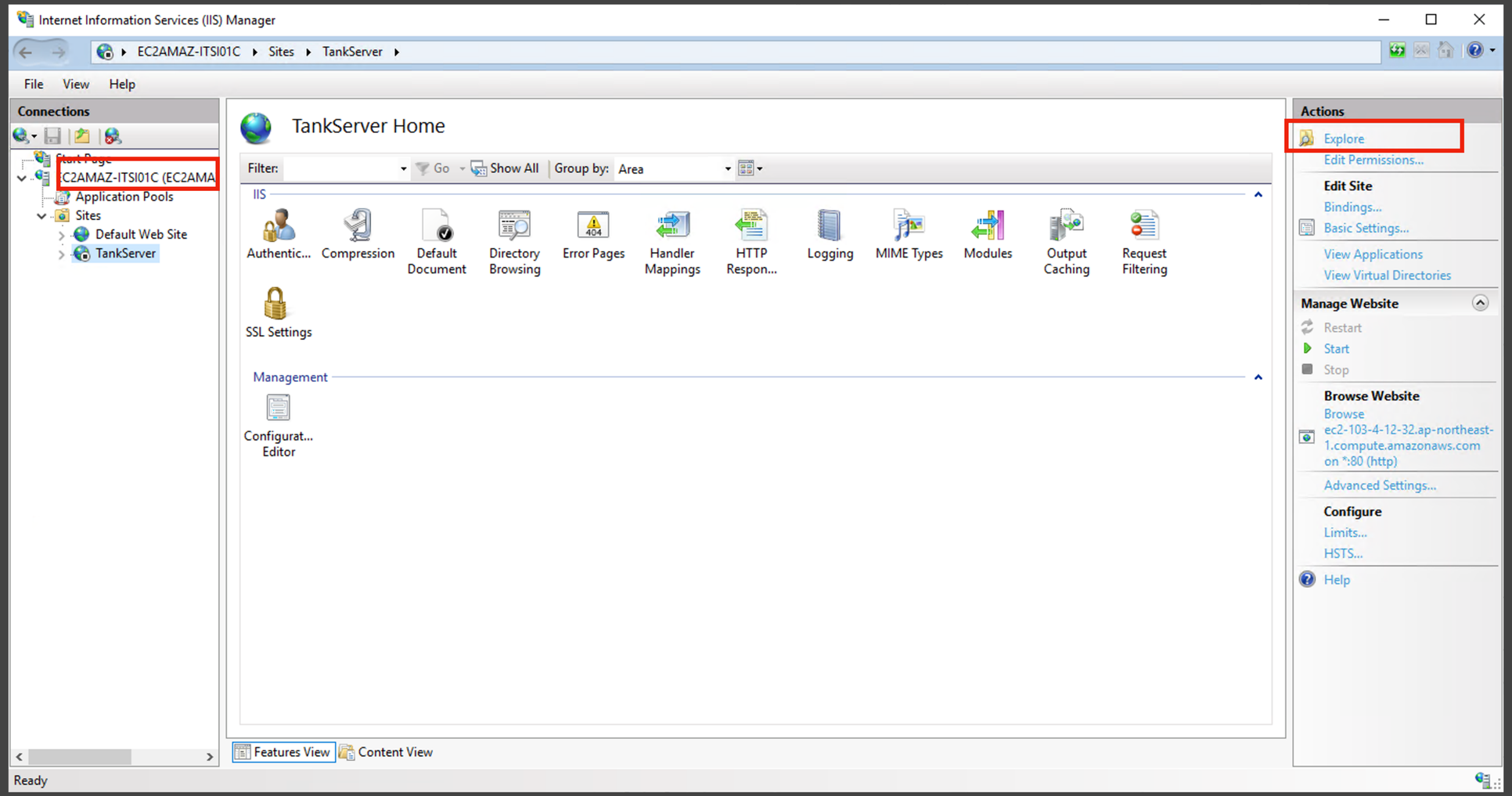


https://docs.microsoft.com/zh-tw/aspnet/core/tutorials/publish-to-iis?view=aspnetcore-6.0&tabs=visual-studio

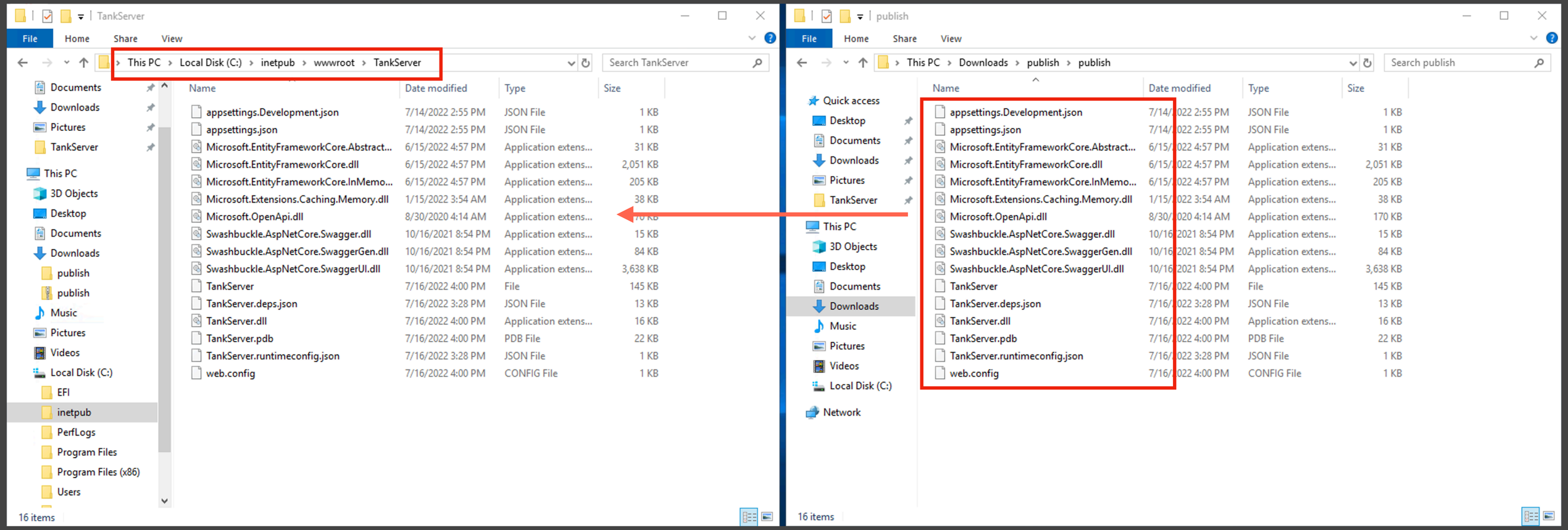
打包Server程式


挑選發佈目標
App Service
App Service Linux
Azure 虛擬機器
IIS、FTP 等
資料夾
資料夾或檔案共用
將您的應用程式發佈到資料夾或檔案共用
選擇資料夾(F)
C:\Demo\DemoBlazorApp
瀏覽...
進階...
匯入設定檔(I)...
建立設定檔(P)
取消(C)

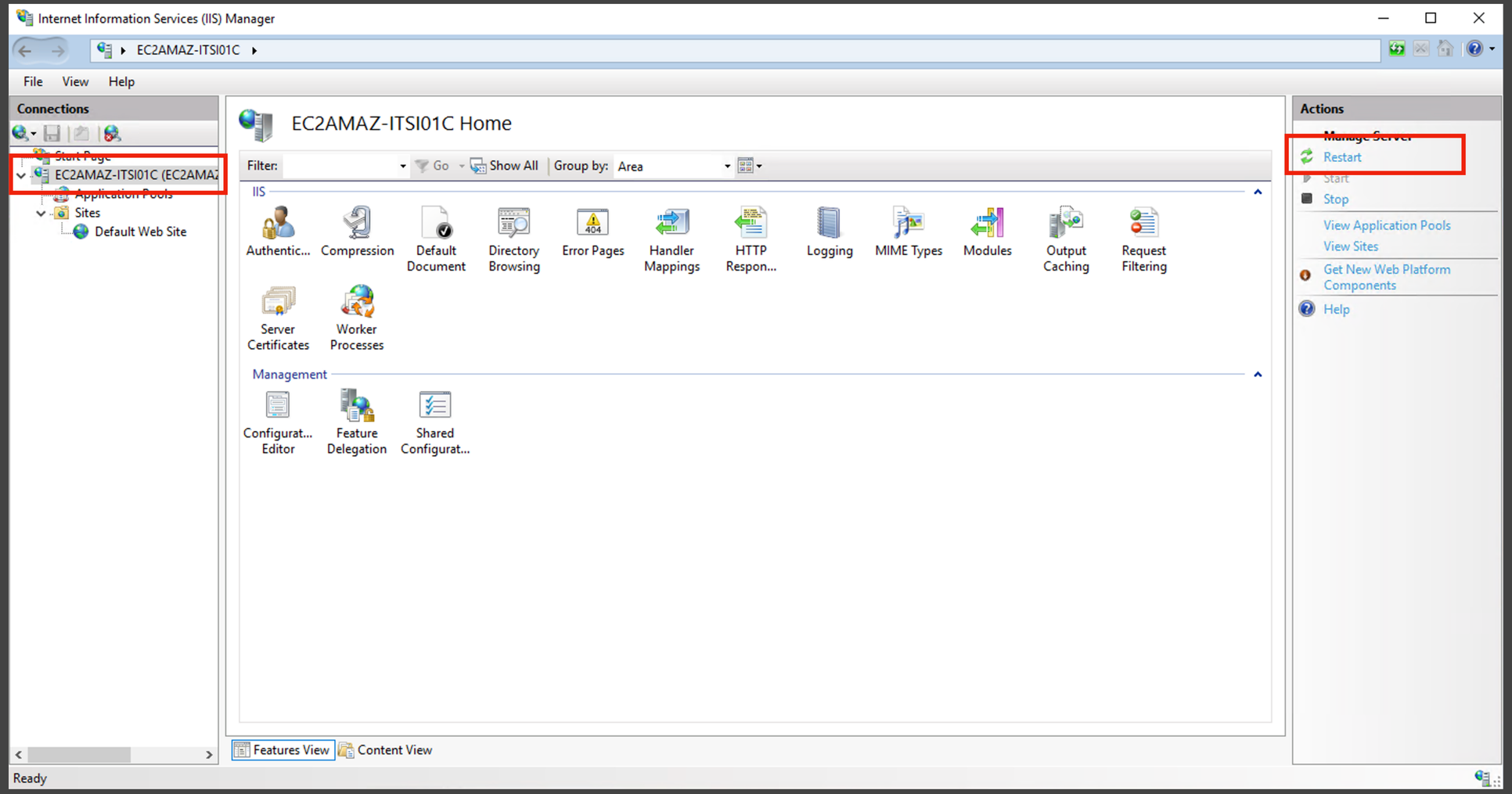
開啟網站程式目錄


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ TankServer ▸
File View Help
Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMA
Application Pools
Sites
Default Web Site
TankServer
TankServer Home
Filter:
Go
Show All
Group by: Area
IIS
Authentic...
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
SSL Settings
Management
Configurat... Editor
Features View
Content View
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Ready

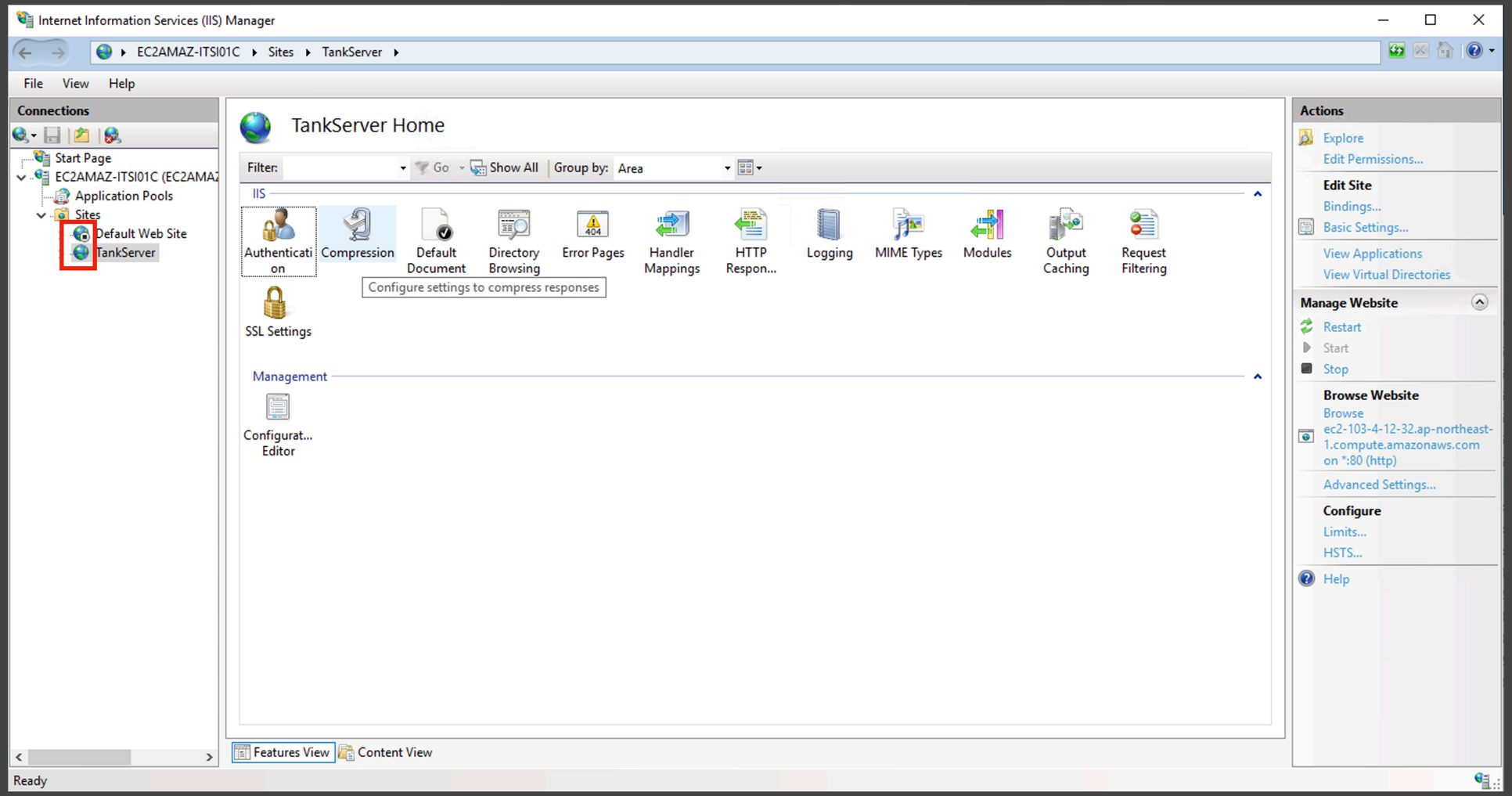
拷貝網站程式碼到伺服器上
並解壓縮到網站目錄裡



重新啟動 Servers



確認伺服器狀態


Internet Information Services (IIS) Manager
EC2AMAZ-ITSI01C ▸ Sites ▸ TankServer ▸
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Connections
Start Page
EC2AMAZ-ITSI01C (EC2AMAZ
Application Pools
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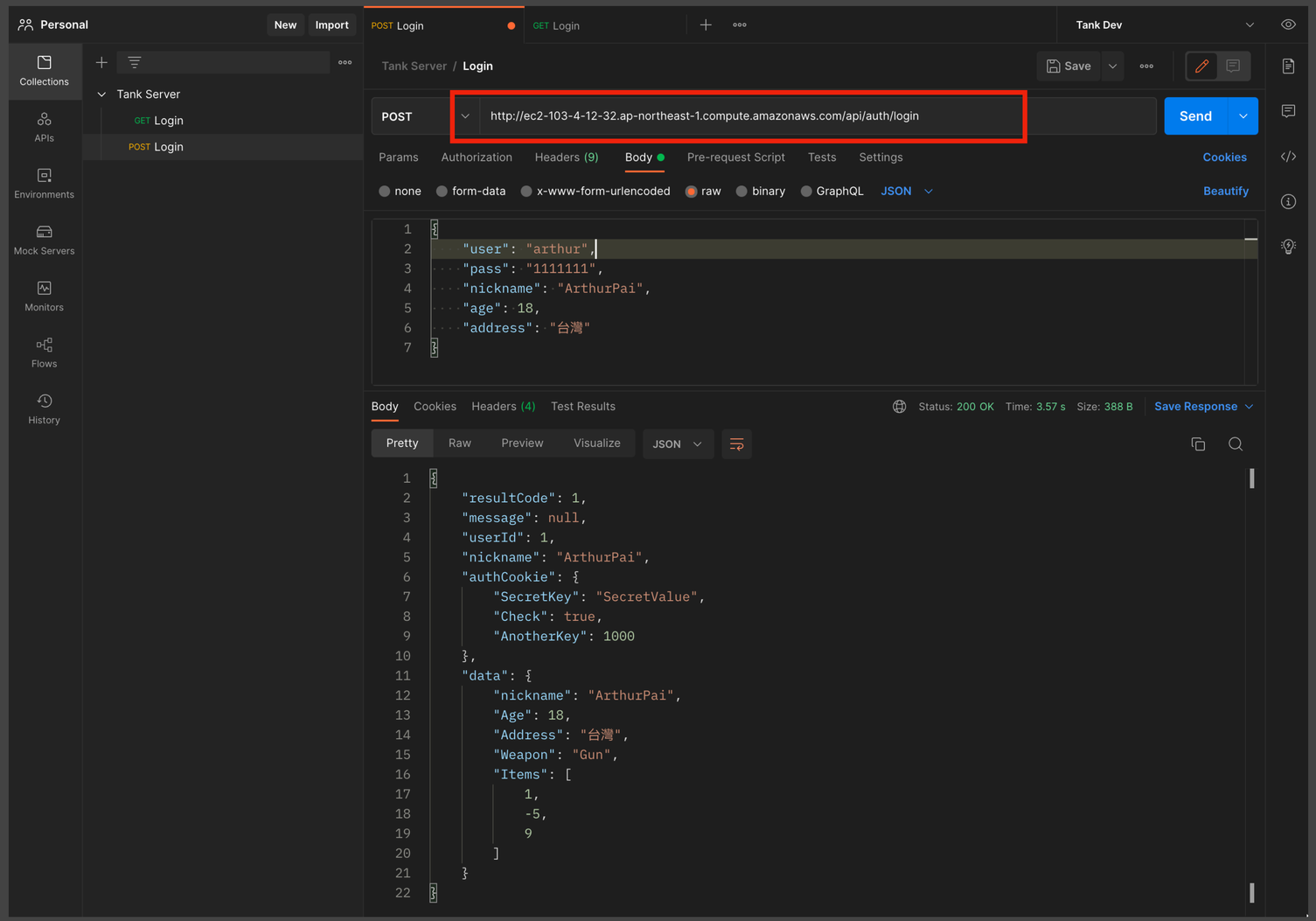
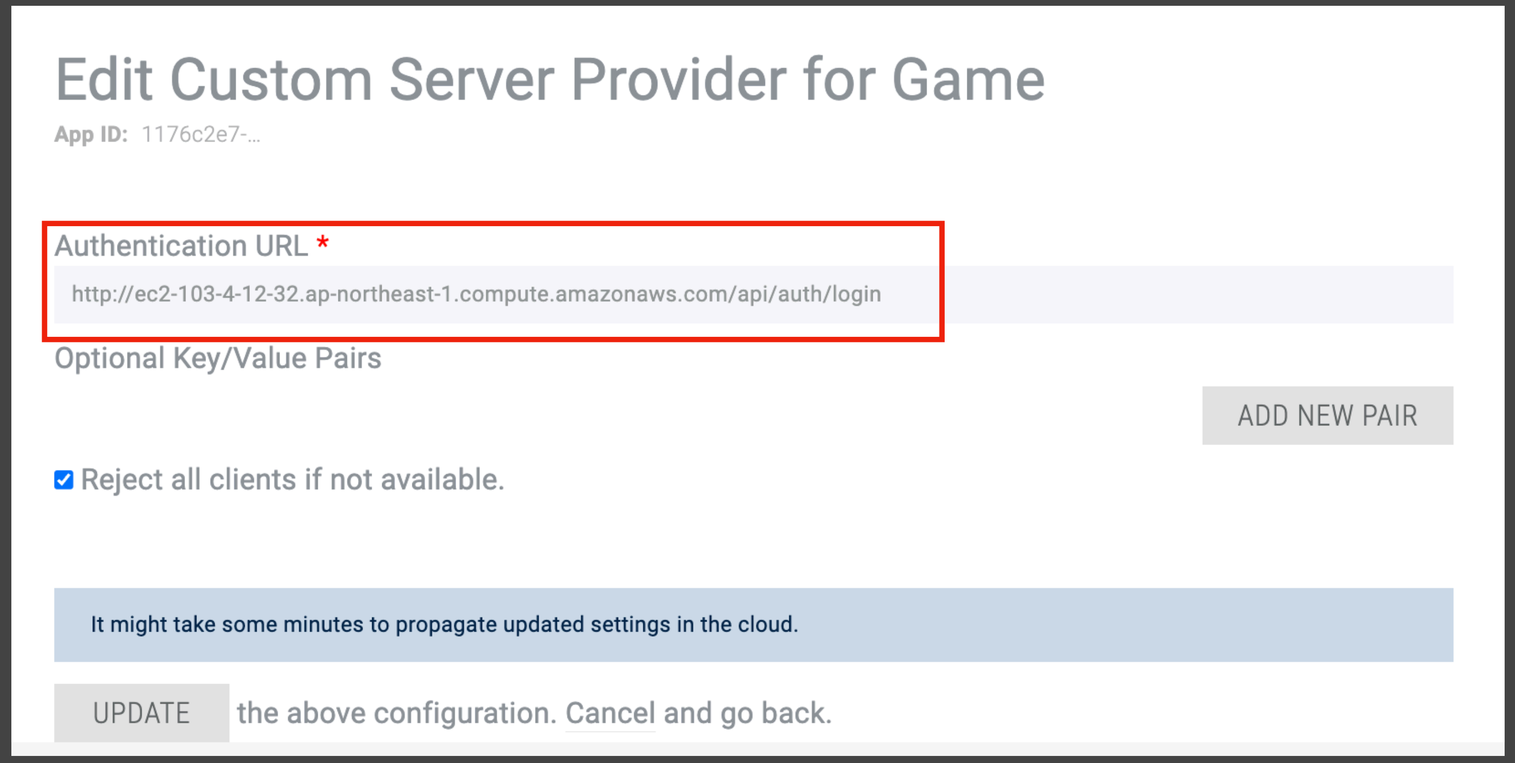
TankServer
TankServer Home
Filter:
Go
Show All
Group by: Area
IIS
Authentication
Compression
Default Document
Directory Browsing
Error Pages
Handler Mappings
HTTP Respon...
Logging
MIME Types
Modules
Output Caching
Request Filtering
Configure settings to compress responses
SSL Settings
Management
Configurat... Editor
Features View
Content View
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com on *:80 (http)
Advanced Settings...
Configure
Limits...
HSTS...
Help
Ready

測試伺服器是否正常

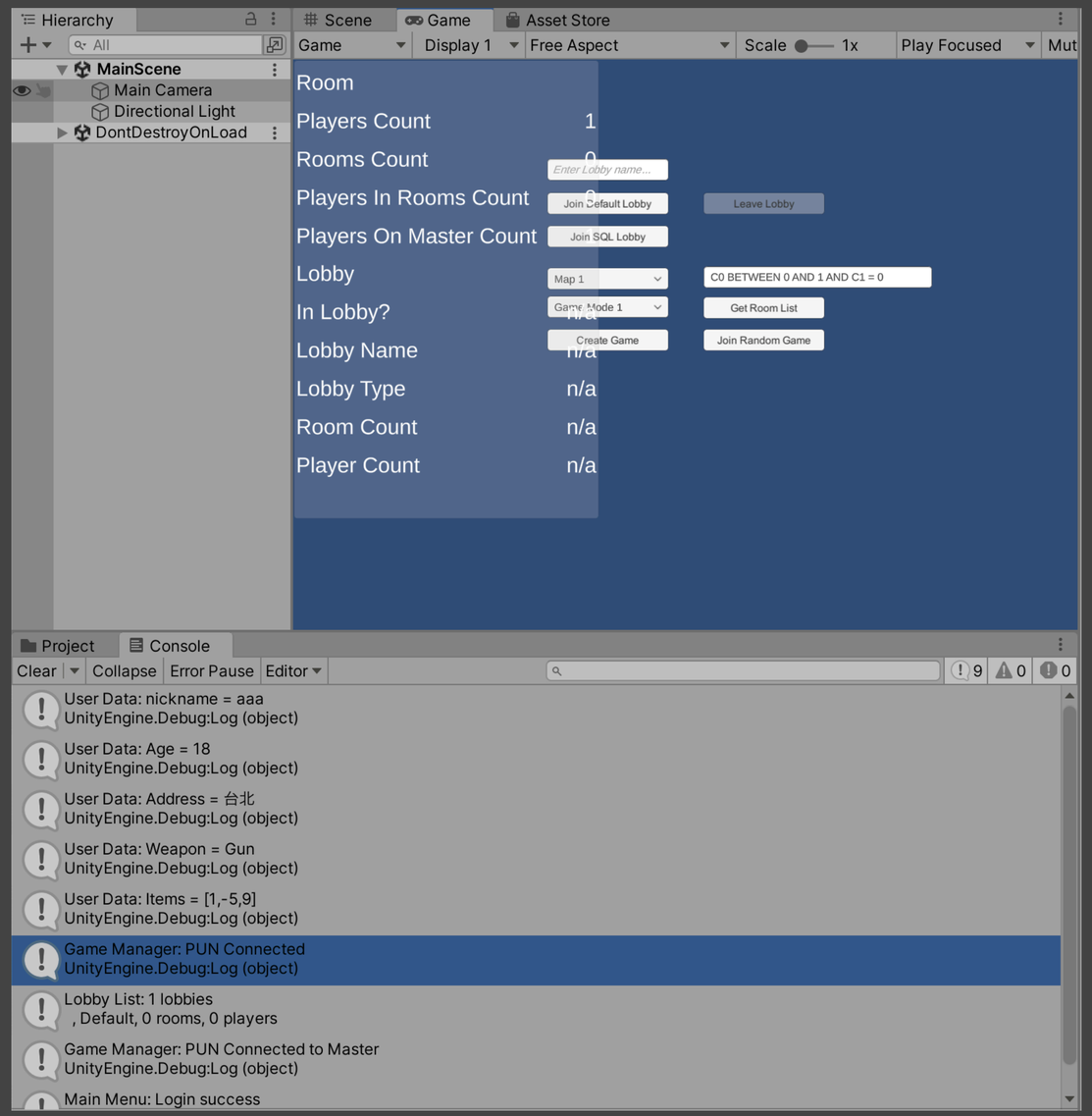

Personal
New
Import
Collections
APIs
Environments
Mock Servers
Monitors
Flows
History
Tank Server
GET Login
POST Login
POST Login
GET Login
Tank Dev
Tank Server / Login
Save
POST
http://ec2-103-4-12-32.ap-northeast-1.compute.amazonaws.com/api/auth/login
Send
Params
Authorization
Headers (9)
Body
Pre-request Script
Tests
Settings
Cookies
none
form-data
x-www-form-urlencoded
raw
binary
GraphQL
JSON
Beautify
{
"user": "arthur",
"pass": "1111111",
"nickname": "ArthurPai",
"age": 18,
"address": "台灣"
}
Body
Cookies
Headers (4)
Test Results
Status: 200 OK
Time: 3.57 s
Size: 388 B
Save Response
Pretty
Raw
Preview
Visualize
JSON
{
"resultCode": 1,
"message": null,
"userId": 1,
"nickname": "ArthurPai",
"authCookie": {
"SecretKey": "SecretValue",
"Check": true,
"AnotherKey": 1000
},
"data": {
"nickname": "ArthurPai",
"Age": 18,
"Address": "台灣",
"Weapon": "Gun",
"Items": [
1,
-5,
9
]
}
}

練習 10分鐘

設定 Photon 的登入伺服器



測試 Unity Tank Client 登入



練習 10分鐘