

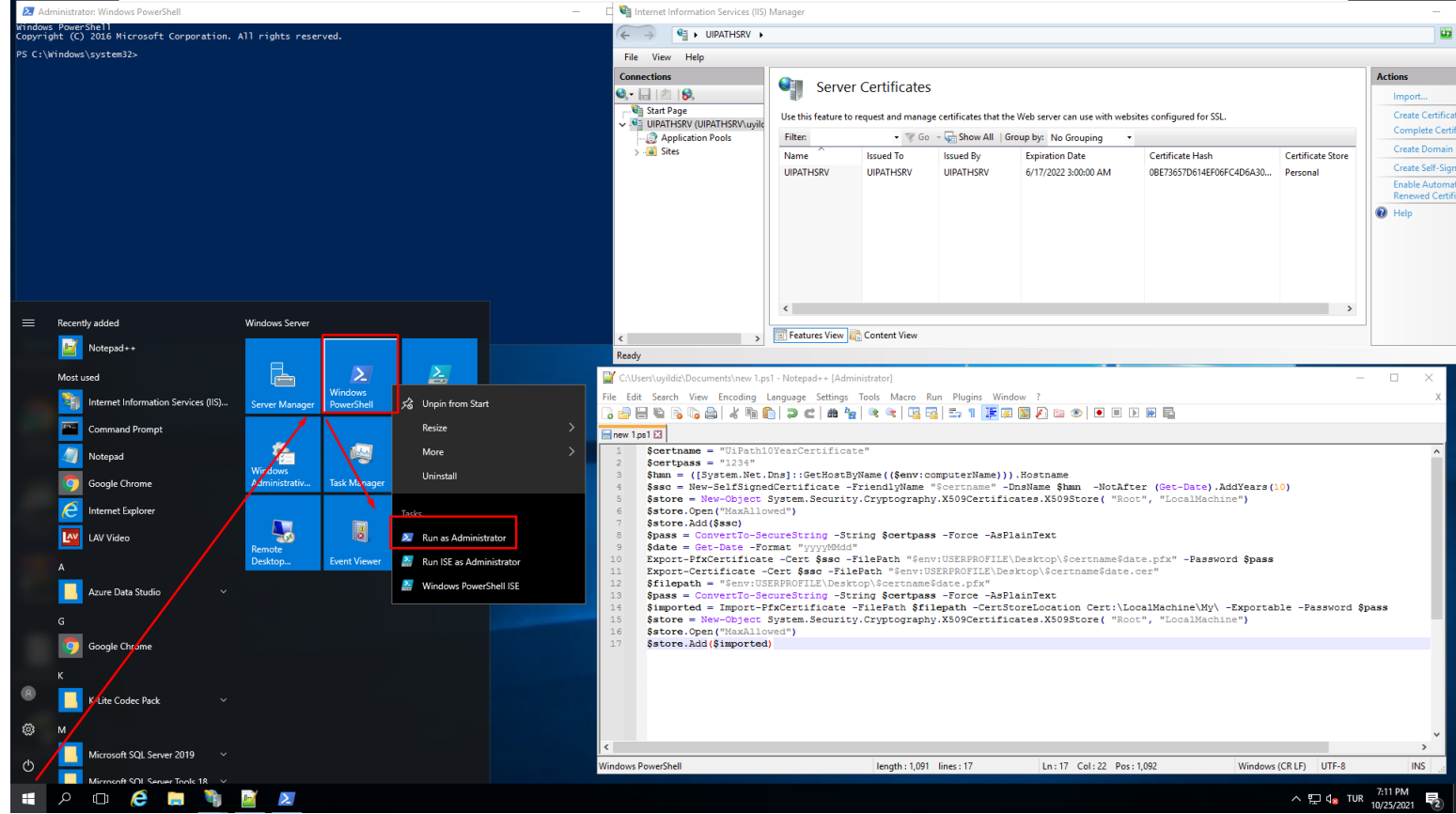
UiPath Orchestrator 10 Yıllık Sertifika Oluřturma ve Yükleme Dokümanı

- A. UiPath Orchestrator Single Node 10 Years Certificate Create & Import**
- B. UiPath Robot Orchestrator Certificate Import**
- C. UiPath Orchestrator Multi Node 10 Years Certificate Create & Import**

Hazırlayan: Uğur YILDIZ

A. UiPath Orchestrator Single Node 10 Years Certificate Create & Import

1. Orchestratorun yüklü olduğu makinada Powershell Yönetici olarak çalıştırılır.



2. Scriptte belirlenen alana sertifika adı ve şifre yazılır.

```
$certname = "UiPath10YearCertificate"

$certpass = "1234"

$hm = ([System.Net.Dns]::GetHostByName(($env:computerName))).Hostname

$ssc = New-SelfSignedCertificate -FriendlyName "$certname" -DnsName $hm -NotAfter (Get-Date).AddYears(10)

$store = New-Object System.Security.Cryptography.X509Certificates.X509Store( "Root", "LocalMachine")

$store.Open("MaxAllowed")

$store.Add($ssc)

$pass = ConvertTo-SecureString -String $certpass -Force -AsPlainText

$date = Get-Date -Format "yyyyMMdd"

Export-PfxCertificate -Cert $ssc -FilePath "$env:USERPROFILE\Desktop\$certname$date.pfx" -Password $pass

Export-Certificate -Cert $ssc -FilePath "$env:USERPROFILE\Desktop\$certname$date.cer"

$filepath = "$env:USERPROFILE\Desktop\$certname$date.pfx"

$pass = ConvertTo-SecureString -String $certpass -Force -AsPlainText

$imported = Import-PfxCertificate -FilePath $filepath -CertStoreLocation Cert:\LocalMachine\My\ -Exportable -Password $pass

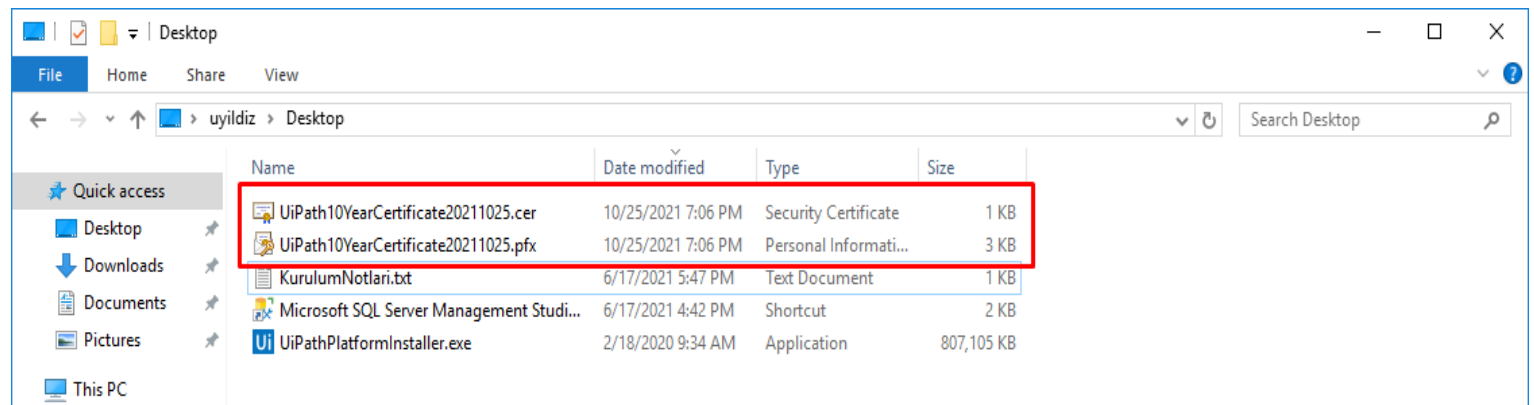
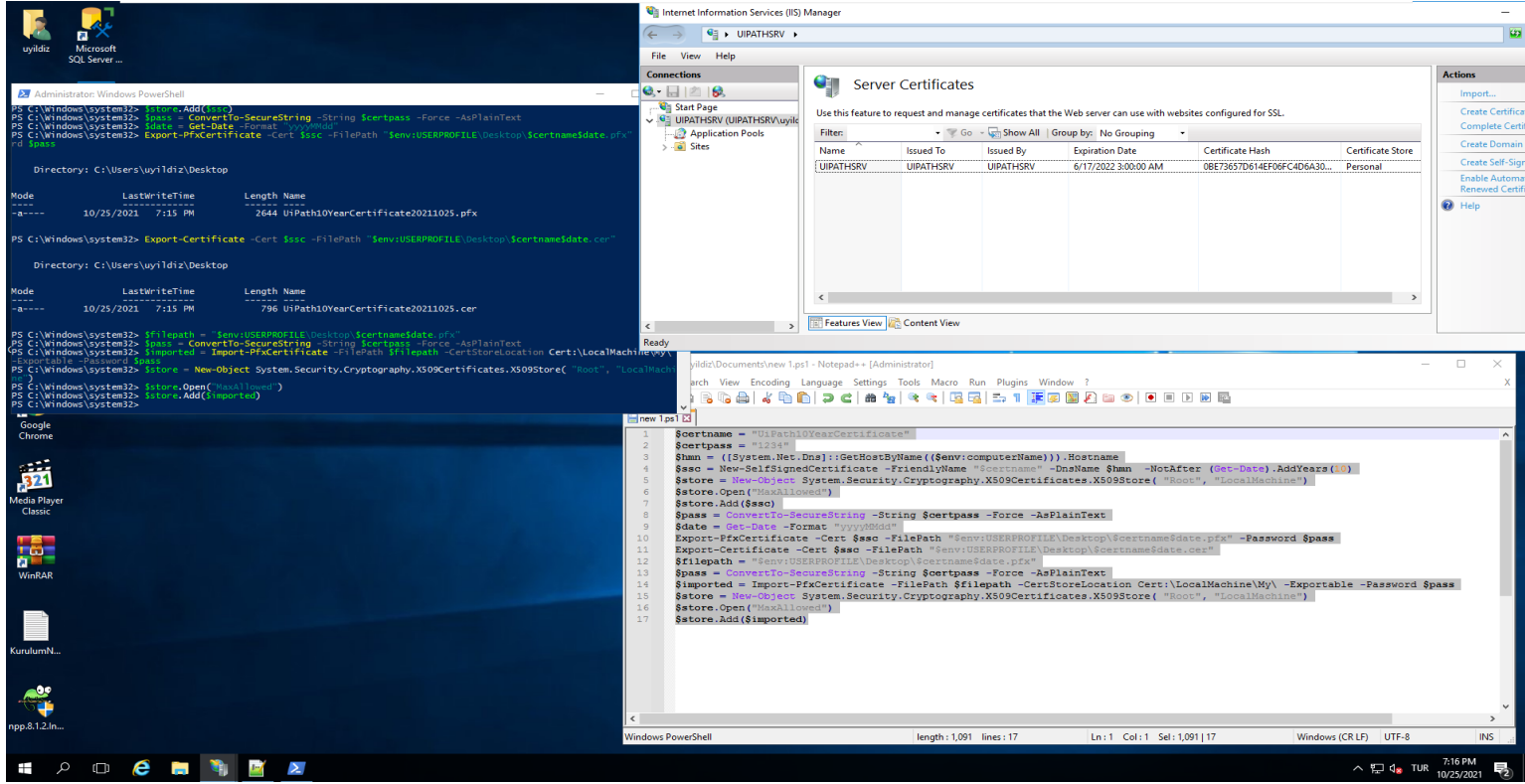
$store = New-Object System.Security.Cryptography.X509Certificates.X509Store( "Root", "LocalMachine")

$store.Open("MaxAllowed")

$store.Add($imported)
```

```
C:\Users\uyildiz\Documents\new 1.ps1 - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
new 1.ps1
1 $certname = "UiPath10YearCertificate"
2 $certpass = "1234"
3 $hmn = ([System.Net.Dns]::GetHostByName(($env:computerName))).Hostname
4 $ssc = New-SelfSignedCertificate -FriendlyName $certname -DnsName $hmn -NotAfter (Get-Date).AddYears(10)
5 $store = New-Object System.Security.Cryptography.X509Certificates.X509Store( "Root", "LocalMachine")
6 $store.Open("MaxAllowed")
7 $store.Add($ssc)
8 $pass = ConvertTo-SecureString -String $certpass -Force -AsPlainText
9 $date = Get-Date -Format "yyyyMMdd"
10 Export-PfxCertificate -Cert $ssc -FilePath "$env:USERPROFILE\Desktop\$certname$date.pfx" -Password $pass
11 Export-Certificate -Cert $ssc -FilePath "$env:USERPROFILE\Desktop\$certname$date.cer"
12 $filepath = "$env:USERPROFILE\Desktop\$certname$date.pfx"
13 $pass = ConvertTo-SecureString -String $certpass -Force -AsPlainText
14 $imported = Import-PfxCertificate -FilePath $filepath -CertStoreLocation Cert:\LocalMachine\My\ -Exportable -Password $pass
15 $store = New-Object System.Security.Cryptography.X509Certificates.X509Store( "Root", "LocalMachine")
16 $store.Open("MaxAllowed")
17 $store.Add($imported)
```

3. Scriptin tamamı Powershel'e kopyalanır ve enter tuşuna basılır. Sertifika dosyalarının masaüstünde olduğu be import edildiği görüntülenir. "Inetmgr => Server => Server Certificates"



4. "Iinetmgr => UiPath Orchestrator => Edit Bindings => https => edit => SSL Certificate => Oluşturulan Sertifika Seçilir => Ok" denir ve Orchestrator üzerinde sertifika tanımlama işlemi tamamlanmış olur. Masaüstünde oluşan ".cer" uzantılı sertifikayı robotlara dağıtmayı unutmayın yoksa robotlar çalışmaz..

Administrator: Windows PowerShell

```
PS C:\Windows\system32> $store = Get-Childitem Cert:\CurrentUser\My
PS C:\Windows\system32> $cert = New-Object System.Security.Cryptography.X509Certificates.X509Certificate2($store, "UiPath10YearCertificate20211025.pfx", [X509ContentType]::Blob)
PS C:\Windows\system32> $cert.Export($store, "UiPath10YearCertificate20211025.pfx", [ExportOptions]::Exportable)
PS C:\Windows\system32> $cert.Export($store, "UiPath10YearCertificate20211025.cer", [ExportOptions]::Exportable)
PS C:\Windows\system32> $cert.Export($store, "UiPath10YearCertificate20211025.cer", [ExportOptions]::Exportable)
```

Directory: C:\Users\uyıldız\Desktop

Mode	LastWriteTime	Length	Name
-a----	10/25/2021 7:15 PM	2644	UiPath10YearCertificate20211025.pfx

Directory: C:\Users\uyıldız\Desktop

Mode	LastWriteTime	Length	Name
-a----	10/25/2021 7:15 PM	796	UiPath10YearCertificate20211025.cer

Internet Information Services (IIS) Manager

Server Certificates

Name	Issued To	Issued By	Expiration Date	Certificate Hash	Certificate Store
UiPath10YearCert...	UIPATHSRV	UIPATHSRV	10/25/2021 7:15:50 PM	F83729E1189A518A3568C7C3...	Personal

Sertifika sayfası yenilenir ve sertifikanın oluştuğu görüntülenir.

Orchestrator sayfasına sağ tıklanır edit bindings tıklanır.

Administrator: Windows PowerShell

```
PS C:\Windows\system32> $store = Get-Childitem Cert:\CurrentUser\My
PS C:\Windows\system32> $cert = New-Object System.Security.Cryptography.X509Certificates.X509Certificate2($store, "UiPath10YearCertificate20211025.pfx", [X509ContentType]::Blob)
PS C:\Windows\system32> $cert.Export($store, "UiPath10YearCertificate20211025.pfx", [ExportOptions]::Exportable)
PS C:\Windows\system32> $cert.Export($store, "UiPath10YearCertificate20211025.cer", [ExportOptions]::Exportable)
PS C:\Windows\system32> $cert.Export($store, "UiPath10YearCertificate20211025.cer", [ExportOptions]::Exportable)
```

Directory: C:\Users\uyıldız\Desktop

Mode	LastWriteTime	Length	Name
-a----	10/25/2021 7:15 PM	2644	UiPath10YearCertificate20211025.pfx

Directory: C:\Users\uyıldız\Desktop

Mode	LastWriteTime	Length	Name
-a----	10/25/2021 7:15 PM	796	UiPath10YearCertificate20211025.cer

Internet Information Services (IIS) Manager

Server Certificates

Name	Issued To	Issued By	Expiration Date	Certificate Hash	Certificate Store
UiPath10YearCert...	UIPATHSRV	UIPATHSRV	10/25/2021 7:15:50 PM	F83729E1189A518A3568C7C3...	Personal

Site Bindings

Type	Host Name	Port	IP Address	Binding Information
https	UIPATHSRV	443	*	

Edit Site Binding

Type: https IP address: All Unassigned Port: 443

Host name: UIPATHSRV

Require Server Name Indication: ☐

SSL certificate: UiPath10YearCertificate

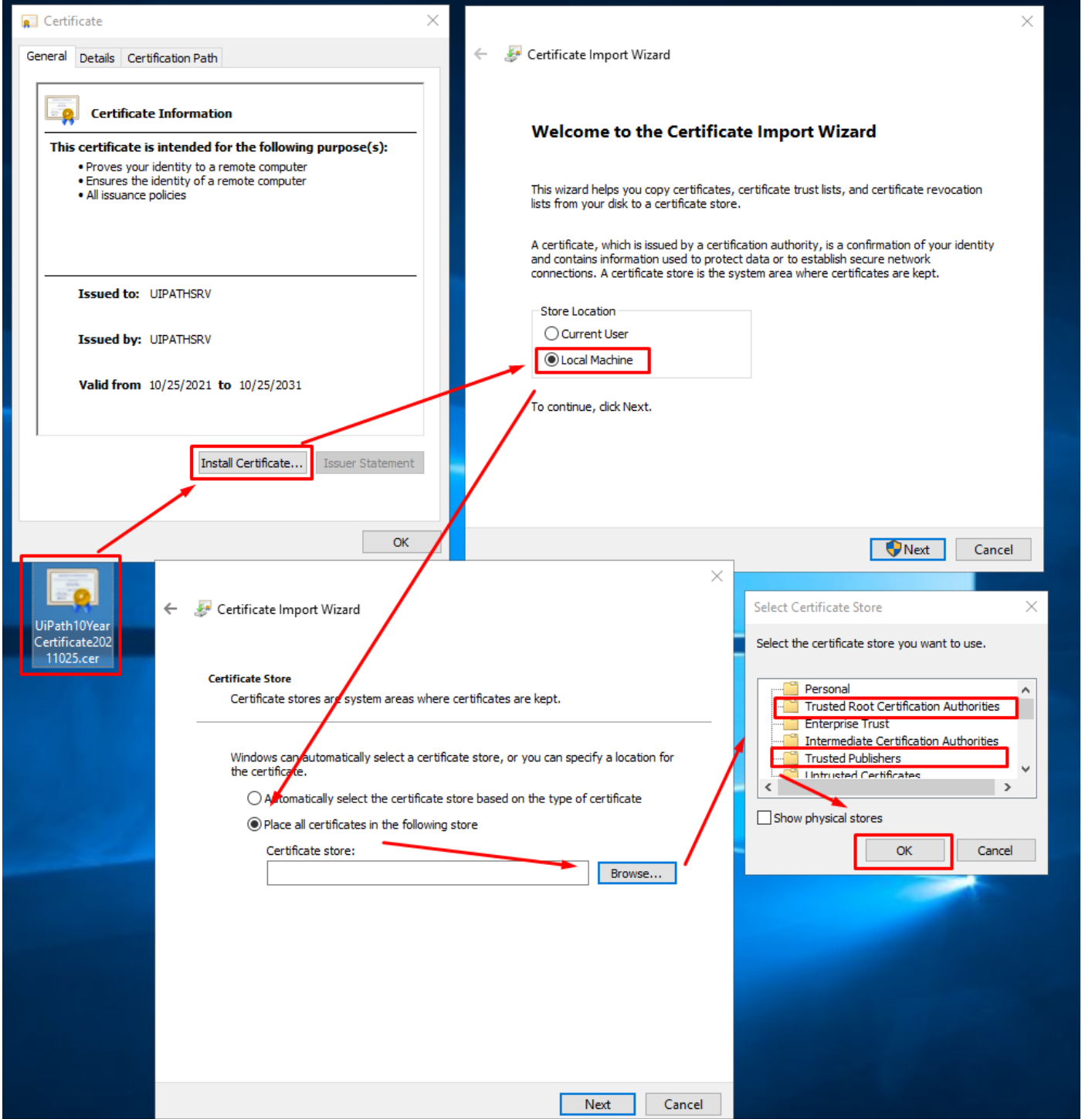
Not selected

UiPath10YearCertificate

OK

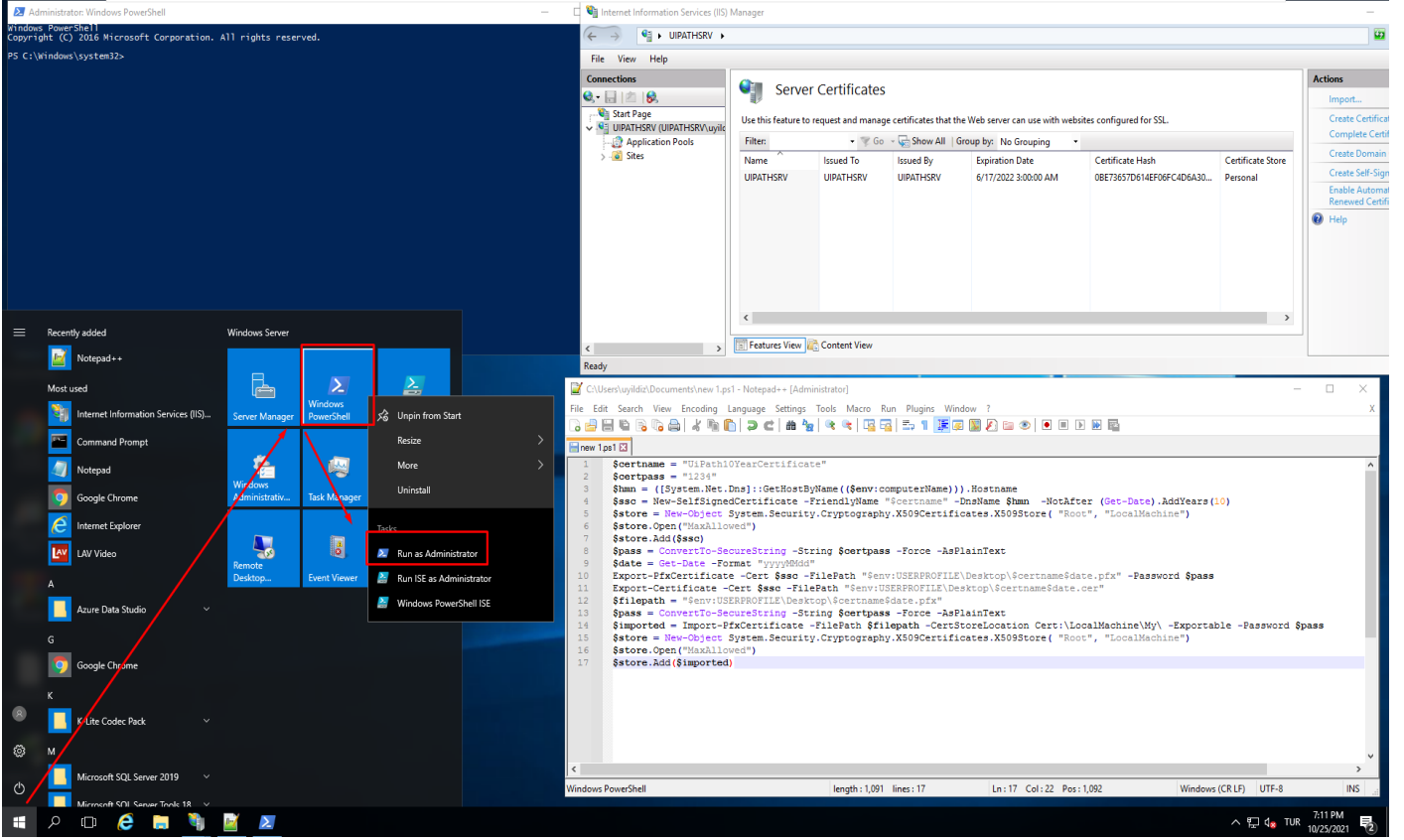
B. UiPath Robot Orchestrator Certificate Import

1. “.cer” uzantılı sertifika tüm runner makinelere dağıtılır yada aşağıdaki gibi yüklenir. Bu işlem yapılmaz ise robotlar hata verir.



C. UiPath Orchestrator Multi Node 10 Years Certificate Create & Import

1. LoadBalancer makinasında Powershell Yönetici olarak çalıştırılır.



2. Scriptte belirlenen alanlara Sertifikanıza vermek istediğiniz isim , Sertifika Şifresi

LoadBalancer Makina Adı = UiPathLoadBalancer.domain.local

UiPath Server 1 = UiPathSrv1

UiPath Server 2 = UiPathSrv1.domain.local

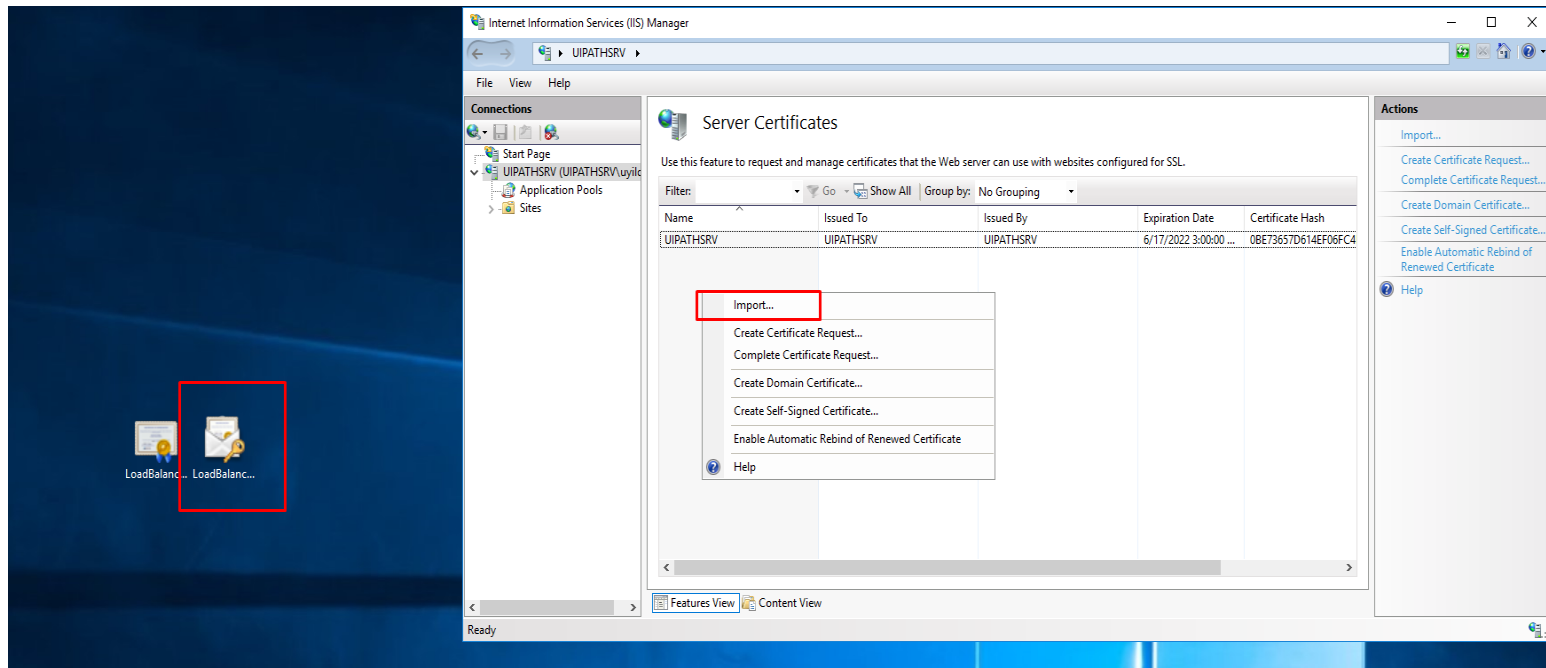
DIKKAT: Makinanız herhangi bir etki alanındaysa lütfen tam adını yazınız. Yukarıda örnekteki gibi herhangi bir etki alanında değilse makina adı yeterli olacaktır.

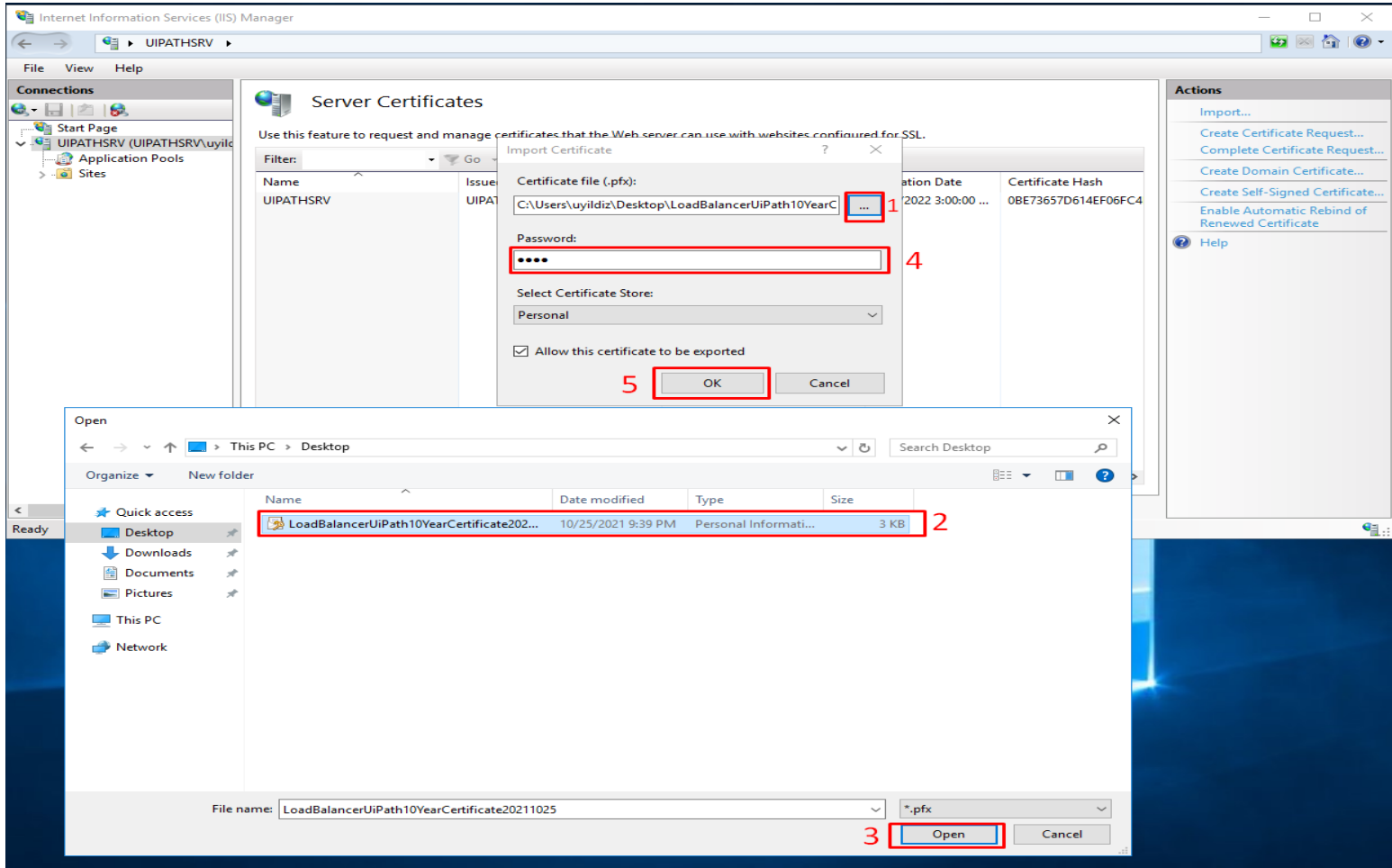
```

$certname = "LoadBalancerUiPath10YearCertificate"
$certpass = "1234"
$LoadBalancerMachineName = "LoadBalancer"
$SingleNodeMachineName = "UiPathServer01"
$SecondaryNodeMachineName = "UiPathServer02.domain.uyildiz"
$hmnm = $LoadBalancerMachineName , $SingleNodeMachineName , $SecondaryNodeMachineName
$ssc = New-SelfSignedCertificate -FriendlyName "$certname" -DnsName $hmnm -NotAfter (Get-Date).AddYears(10)
$store = New-Object System.Security.Cryptography.X509Certificates.X509Store( "Root", "LocalMachine")
$store.Open("MaxAllowed")
$store.Add($ssc)
$pass = ConvertTo-SecureString -String $certpass -Force -AsPlainText
$date = Get-Date -Format "yyyyMMdd"
Export-PfxCertificate -Cert $ssc -FilePath "$env:USERPROFILE\Desktop\$certname$date.pfx" -Password $pass
Export-Certificate -Cert $ssc -FilePath "$env:USERPROFILE\Desktop\$certname$date.cer"
$filepath = "$env:USERPROFILE\Desktop\$certname$date.pfx"
$pass = ConvertTo-SecureString -String $certpass -Force -AsPlainText
$imported = Import-PfxCertificate -FilePath $filepath -CertStoreLocation Cert:\LocalMachine\My\ -Exportable -Password $pass
$store = New-Object System.Security.Cryptography.X509Certificates.X509Store( "Root", "LocalMachine")
$store.Open("MaxAllowed")
$store.Add($imported)

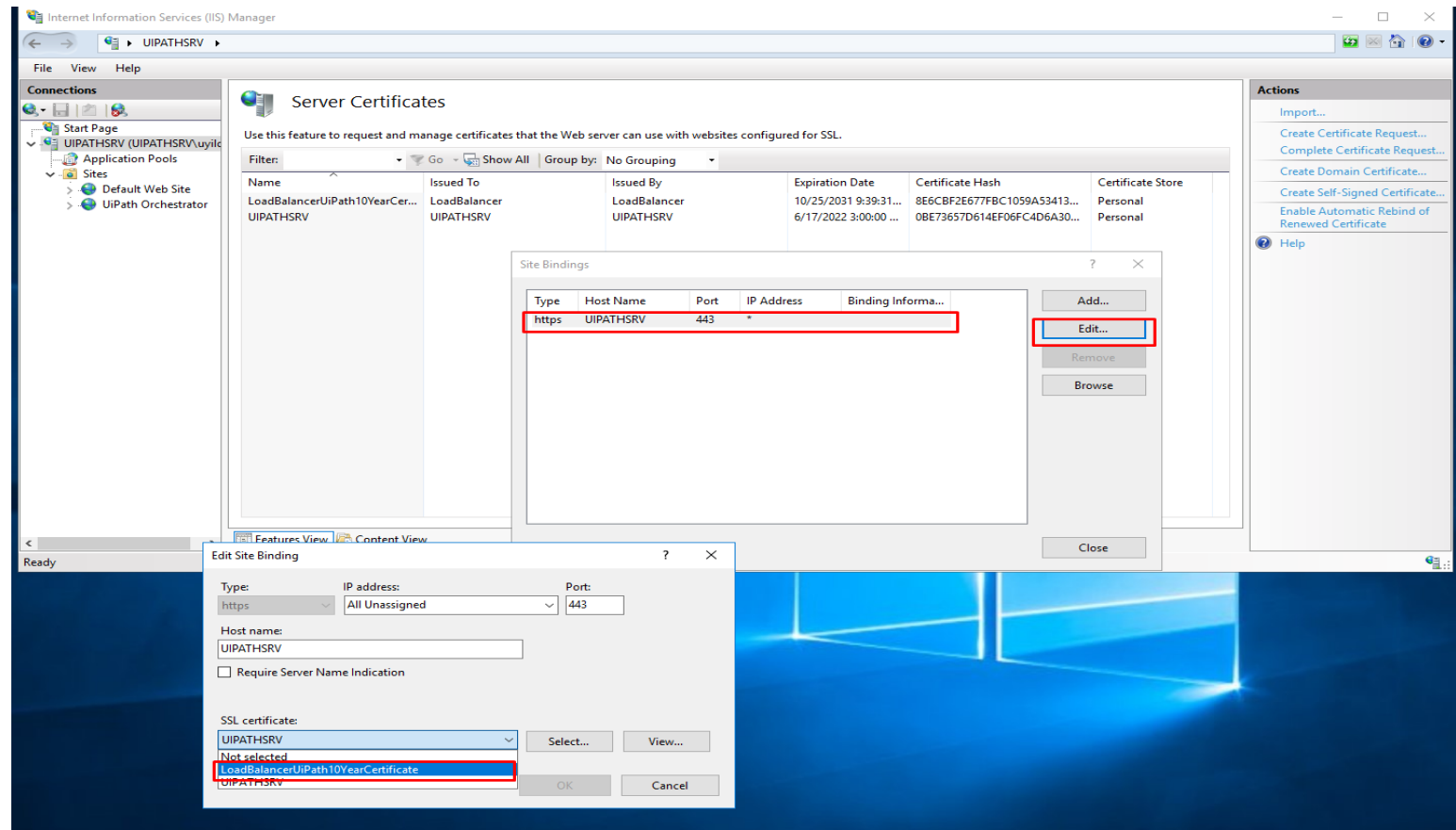
```

3. Orchestrator Makinalarında "Inetmgr => Server => Server Certificates => Import => Oluşturulan Sertifika şifresi yazılarak import edilir."





4. Orchestrator makinalara “.pfx” sertifikalar import edilir ve robotlara “.cer” sertifikalar yüklenir. Yukarıda örneği var.



5. Sertifikanın hangi sunucuları kapsadığını “View => Details => Subject Alternative Name” kısmından görebilirsiniz.

