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write-Host "Creating Search Service and Proxy..."
Add-PSSnapin Microsoft.SharePoint.PowerShell -erroraction SilentlyContinue

$serviceName = "Search Service Application"
$searchDBName = "SearchService_DB_2013"
$saAppPoolName = "SharePoint Web Services"
$appPoolUserName = "DOMAIN\SP_Pool"

$saAppPool = Get-SPServiceApplicationPool $saAppPoolName

# Create the Search Service Application and Proxy
write-Host "Creating Search Service Application and Proxy..."
$searchServiceApp = New-SPEnterpriseSearchServiceApplication -Name $serviceName -
ApplicationPool $saAppPoolName -DatabaseName $searchDBName
$searchProxy = New-SPEnterpriseSearchServiceApplicationProxy -Name "$serviceName
Proxy" -SearchApplication $searchServiceApp

# Clone the default Topology (which is empty) and create a new one and then activate
it
write-Host "Configuring Search Component Topology..."

#Prepare the topology variables
$hostApp1 = Get-SPEnterpriseSearchServiceInstance -Identity "SPAPP-SRV1"
$hostApp2 = Get-SPEnterpriseSearchServiceInstance -Identity "SPAPP-SRV2"
$hostWF1 = Get-SPEnterpriseSearchServiceInstance -Identity "SPWF-SRV1"
$hostWF2 = Get-SPEnterpriseSearchServiceInstance -Identity "SPWF-SRV2"

Start-SPEnterpriseSearchServiceInstance -Identity $hostApp1
Start-SPEnterpriseSearchServiceInstance -Identity $hostApp2
Start-SPEnterpriseSearchServiceInstance -Identity $hostWF1
Start-SPEnterpriseSearchServiceInstance -Identity $hostWF2

#Get services status
Get-SPEnterpriseSearchServiceInstance -Identity $hostApp1
Get-SPEnterpriseSearchServiceInstance -Identity $hostApp2
Get-SPEnterpriseSearchServiceInstance -Identity $hostWF1
Get-SPEnterpriseSearchServiceInstance -Identity $hostWF2

#Setting up the topology
$ssa = Get-SPEnterpriseSearchServiceApplication

$newTopology = New-SPEnterpriseSearchTopology -SearchApplication $ssa

#SPAPP-SRV1
New-SPEnterpriseSearchAdminComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp1
New-SPEnterpriseSearchCrawlComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp1
New-SPEnterpriseSearchContentProcessingComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp1

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```
New-SPEnterpriseSearchAnalyticsProcessingComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp1
```

```
New-SPEnterpriseSearchIndexComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp1 -IndexPartition 0
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#SPAPP-SRV2
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```
New-SPEnterpriseSearchAdminComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp2
```

```
New-SPEnterpriseSearchCrawlComponent -SearchTopology $newTopology-
SearchServiceInstance $hostApp2
```

```
New-SPEnterpriseSearchContentProcessingComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp2
```

```
New-SPEnterpriseSearchAnalyticsProcessingComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp2
```

```
New-SPEnterpriseSearchIndexComponent -SearchTopology $newTopology -
SearchServiceInstance $hostApp2 -IndexPartition 0
```

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#SPWF-SRV1 , SPWF-SRV2
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```
New-SPEnterpriseSearchQueryProcessingComponent -SearchTopology $newTopology -
SearchServiceInstance $hostWF1
```

```
New-SPEnterpriseSearchQueryProcessingComponent -SearchTopology $newTopology -
SearchServiceInstance $hostWF2
```

```
#Activate the Topology
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```
Set-SPEnterpriseSearchTopology -Identity $newTopology
```

```
# Verify the Topology
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```
Get-SPEnterpriseSearchTopology -SearchApplication $ssa
```

```
Write-Host "Search Configuration Done Successfully!"
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```
Write-Host "change the default content crawl account. By default Search uses the Farm
account, which is a really bad idea."
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```
Read-Host -Prompt "Press Enter to exit"
```