

Installing Exchange Server 2019 on Windows Server 2022 Guide

- 1. Configure AD in a network**
- 2. Assign static IP to exchange server and change its name and join it to the domain and sign in as domain administrator**
- 3. Make sure exchange server is update (Check for windows update)**
- 4. Download and install the prerequisites in exchange server**
For easy navigation search as: Exchange server 2019 prerequisites
<https://learn.microsoft.com/en-us/exchange/plan-and-deploy/prerequisites?view=exchserver-2019>
 - a. .Net Framework 4.8**
 - b. Visual C++ Redistributable Package for Visual Studio 2012**
 - c. Visual C++ Redistributable Package for Visual Studio 2013**
 - d. Unified Communications Managed API 4.0**
 - e. Copy and run the powershell script of "Desktop Experience"**

Required script:

Install-WindowsFeature Server-Media-Foundation, NET-Framework-45-Core, NET-Framework-45-ASPNET, NET-WCF-HTTP-Activation45, NET-WCF-Pipe-Activation45, NET-WCF-TCP-Activation45, NET-WCF-TCP-PortSharing45, RPC-over-HTTP-proxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, WAS-Process-Model, Web-Asp-Net45, Web-Basic-Auth, Web-Client-Auth, Web-Digest-Auth, Web-Dir-Browsing, Web-Dyn-Compression, Web-Http-Errors, Web-Http-Logging, Web-Http-Redirect, Web-Http-Tracing, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Lgcy-Mgmt-Console, Web-Metabase, Web-Mgmt-Console, Web-Mgmt-Service, Web-Net-Ext45, Web-Request-Monitor, Web-Server, Web-Stat-Compression, Web-Static-Content, Web-Windows-Auth, Web-WMI, Windows-Identity-Foundation, RSAT-ADDS

f. IIS URL Rewrite Module

After installing all prerequisites, restart the server and again login as domain administrator.

5. Download the Exchange ISO file

For easy navigation search as: Exchange server 2019 build numbers and release date

<https://learn.microsoft.com/en-us/exchange/new-features/build-numbers-and-release-dates?view=exchserver-2019>

6. Mount the downloaded Exchange iso file and right click on setup file and run it as administrator.

The installation process will start after passing prerequisites analysis and customizing certain pages as per requirement which appears after running the setup file.

Additional Requirements (Preparation Steps for Deploying Exchange Server 2019)

1. Check AD Health

- Run the following commands to verify Active Directory health:

```
dcdiag /v
```

```
repadmin /replsummary
```

2. Prepare Active Directory for Exchange

- From Exchange ISO, open Command Prompt as Administrator and run:

```
Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms
```

```
Setup.exe /PrepareAD /OrganizationName:"YourOrg" /IAcceptExchangeServerLicenseTerms
```

3. Time Synchronization

- Ensure server clock is accurate (time skew >5 min can cause Exchange issues)
- Recommended: sync with domain controller or NTP server

4. Firewall / Network Requirements

- Open required ports:
 - SMTP: 25
 - HTTPS: 443
 - MAPI: 135
 - IMAP: 143/993 (if used)
 - POP3: 110/995 (if used)
- Ensure Exchange server can communicate with Domain Controllers and DNS

5. Disk and Storage

- Minimum 64 GB on system drive (C:)
- Additional drives for Mailbox databases and logs
- Format additional drives with NTFS or ReFS

6. Antivirus / Security

- Exclude Exchange folders from real-time antivirus scanning:
`C:\Program Files\Microsoft\Exchange Server\`
`C:\Program Files\Microsoft\Exchange Server\V15\Mailbox\`
- Do not install antivirus on Exchange without proper exclusions

7. User Account

- Use a domain administrator account for installation
- After installation, use Exchange admin role accounts for management

8. Optional Features

- If using Unified Messaging (UM) or Edge Transport, install additional roles during setup
- UM requires Microsoft UCMA 4.0 installed

9. Reboot

- After all prerequisites and AD preparation steps, reboot server before running Exchange setup

10. Test Installation

- Access OWA: `https://yourserver/owa`
- Check Exchange services: `Get-Service *Exchange*`