

Lab 2 – Onprem Domain Controller

Now since we don't have any office and domain controller we are creating one domain controller

[Home](#) > [Virtual machines](#) >

Create a virtual machine

Resource group * ⓘ vijayplaying ▼
[Create new](#)

Instance details

Virtual machine name * ⓘ server1 ✓

Region * ⓘ (Europe) West Europe ▼

Availability options ⓘ No infrastructure redundancy required ▼

Image * ⓘ Windows Server 2019 Datacenter - Gen1 ▼
[Browse all public and private images](#)

Azure Spot instance ⓘ ☐ Yes ☒ No

Size * ⓘ Standard_D2s_v3 - (₹10,229.06/month) ▼
[Select size](#)

[Review + create](#)

[< Previous](#)

[Next : Disks >](#)



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Windows 2019 server and size also see above image.

Create new windows 2019 server



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[Home](#) > [Virtual machines](#) >

Create a virtual machine

Public IP (new) server1-ip

Accelerated networking Off

Place this virtual machine behind an existing load balancing solution? No

Management

Boot diagnostics On

OS guest diagnostics Off

Azure Security Center Basic (free)

Diagnostics storage account (new) vijayplayingdiag

System assigned managed identity Off

Auto-shutdown Off

Backup Disabled

Patch installation OS-orchestrated patching: patches will be installed by OS

Create

< Previous

Next >

[Download a template for automation](#)



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**server1** 
Virtual machine

 Connect  Start  Restart  Stop  Capture  Delete  Refresh  Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Disks

Size

Security

Advisor recommendations

Essentials

Resource group [\(change\)](#)
vijayplaying

Status
Running

Location
West Europe

Subscription [\(change\)](#)
Free Trial

Subscription ID
ae72b670-91c4-4d89-a54a-4aa24d1e6a4f

Tags [\(change\)](#)
[Click here to add tags](#)

Operating system
Windows


Size
Standard D2s v3 (2 vcpus, 8 GiB memory)


Public IP address
20.67.98.234

Virtual network/subnet
vijayplaying-vnet/default

DNS name
[Configure](#)

Properties Monitoring Capabilities (8) Recommendations Tutorials

 Virtual machine

 Networking



Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20201020150428 > server1

server1 | Connect

Virtual machine

Search (Ctrl+ /)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Networking
- Connect
- Disks
- Size

⚠ To improve security, enable just-in-time access on this VM. →

RDP SSH BASTION

Connect with RDP

To connect to your virtual machine via RDP, select an IP address, optionally change the port number, and download the RDP file.

IP address *

Public IP address (20.67.98.234)

Port number *

3389

Download RDP File

Can't connect?

server1.rdp

Login to that windows 2019 server via RDP

After your logged in widows 2019 server



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Turn off IE

Install chrome

Login portal.azure.com

Check the server name



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Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20201020150428 > server1

server1 | Connect


Virtual machine

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Networking
- Connect**
- Disks
- Size

 To improve security, enable just-in-time access on this VM. →

RDP SSH BASTION

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IP address *

Public IP address (20.67.98.234)

Port number *

3389

Download RDP File

Can't connect?

server1.rdp

Now configure this windows server as a domain controller



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Domain is vijayarchitect.com

Goto server manager and → add roles and feature's



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Server Manager

Server Manager ▸ Local Server

Manage Tools View Help

Dashboard

Local Server

All Servers

File and Storage

PROPERTIES For server1

Add Roles and Features Wizard

Before you begin

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

DESTINATION SERVER server1

Never

Install updates automatically using Windows Update

Never

Real-Time Protection: On

Settings

Off

(UTC) Coordinated Universal Time

00430-00000-00000-AA864 (activated)

Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz

8 GB

142.51 GB

server1 10016 Error Microsoft-Windows-DistributedCOM System 10/20/2020 1:18:57 PM

1:28 PM 10/20/2020



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Add Roles and Features Wizard

Select installation type

DESTINATION SERVER
server1

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



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Select destination server

DESTINATION SERVER
server1

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
server1	10.0.0.4	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



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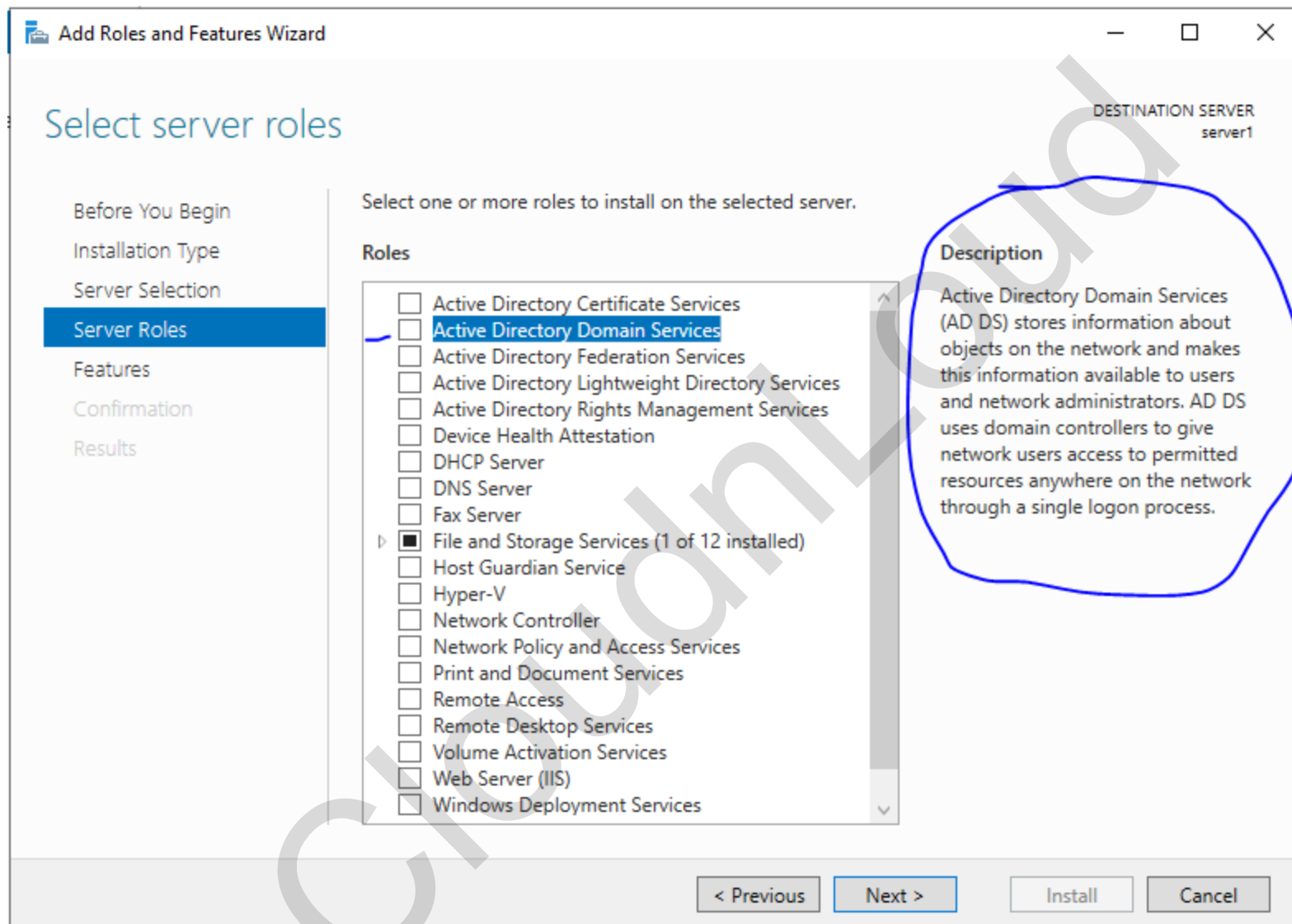
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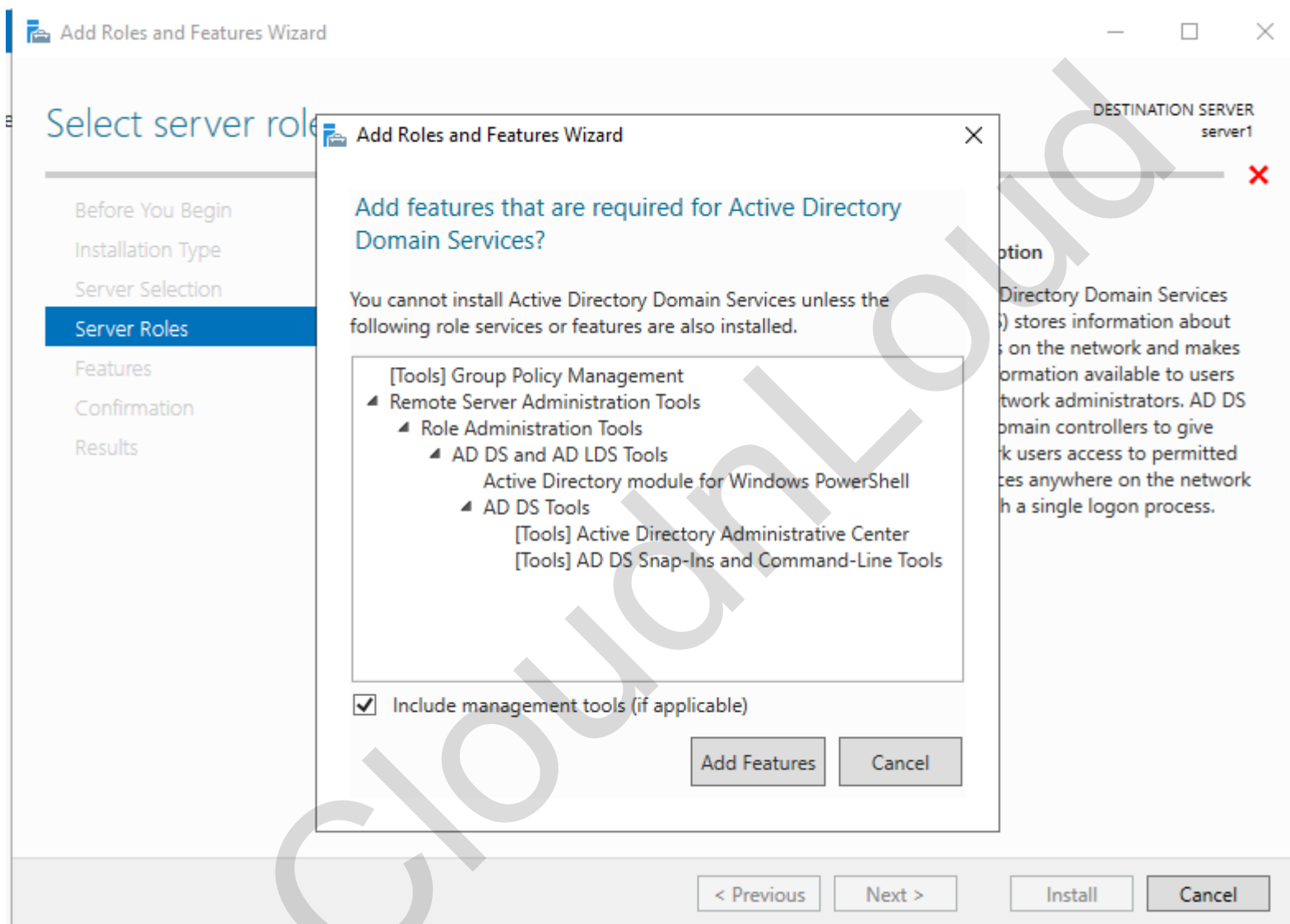
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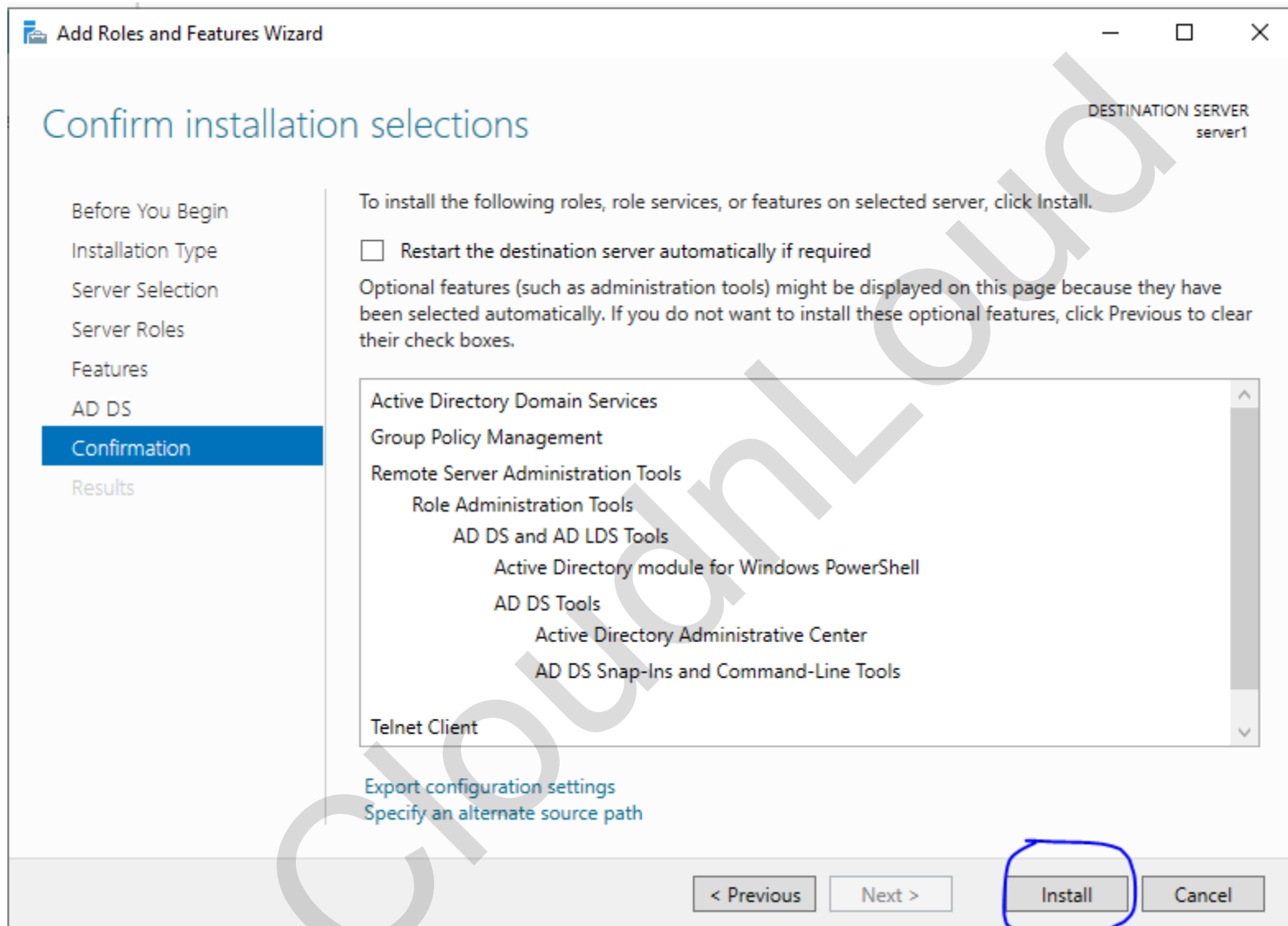
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Installation progress

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

Confirmation

Results

View installation progress



Feature installation



Installation started on server1

Active Directory Domain Services
Group Policy Management
Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS Tools
Active Directory module for Windows PowerShell
AD DS Tools
Active Directory Administrative Center
AD DS Snap-Ins and Command-Line Tools

Telnet Client

TFTP Client



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



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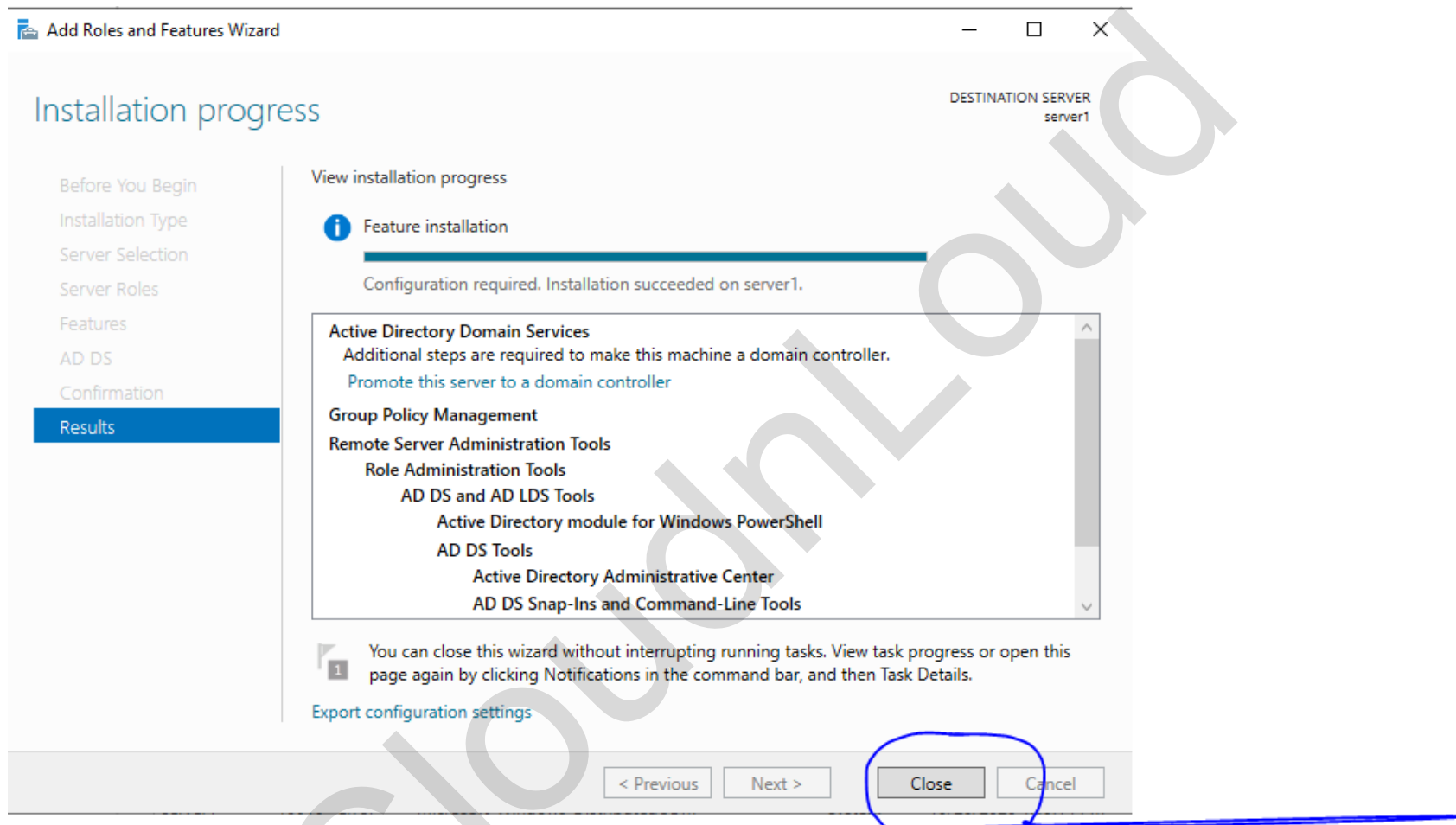
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Server Manager ▸ AD DS

Dashboard
Local Server
All Servers
AD DS
File and Storage Services ▸

SERVERS
All servers | 1 total

Configuration required for Active Directory Domain Services at server1

Filter

Server Name	IPv4 Address	Manageability	Last Update	Windows Activation
server1	10.0.0.4	Online - Performance counters not started	10/20/2020 1:35:04 PM	00430-00000-00000-AA864 (Activated)

EVENTS
All events | 1 total

Filter

Server Name	ID	Severity	Source	Log	Date and Time
server1	1202	Error	DFSR	DFS Replication	10/20/2020 1:34:35 PM

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Server Manager ▸ AD DS

Dashboard
Local Server
All Servers
AD DS
File and Storage

All Servers Task Details and Notifications

All Tasks | 1 total

Status	Task Name	Stage	Message	Action	Notifications
⚠	Post-deployment Configuration	Not Sta...	Configuration required for Active Directory Do...	Promote this server to a domain...	1

Status	Notification	Time Stamp
ℹ	Additional steps are required to make this machine a domain controller.	10/20/2020 1:35:02 PM



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All Servers Task Details

Active Directory Domain Services Configuration Wizard

Deployment Configuration

TARGET SERVER
server1

- Deployment Configuration
- Domain Controller Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check
- Installation
- Results

Select the deployment operation

- ☒ Add a domain controller to an existing domain
- ☐ Add a new domain to an existing forest
- ☐ Add a new forest

Specify the domain information for this operation

Domain:

Supply the credentials to perform this operation

<No credentials provided>

[More about deployment configurations](#)

< Previous Next > Install Cancel



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Active Directory Domain Services Configuration Wizard

Deployment Configuration

TARGET SERVER
server1

Deployment Configuration

Domain Controller Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select the deployment operation

- ☐ Add a domain controller to an existing domain
- ☐ Add a new domain to an existing forest
- ☒ Add a new forest

Specify the domain information for this operation

Root domain name:

vijayarchitect.com

[More about deployment configurations](#)

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Next >

Install

Cancel



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Active Directory Domain Services Configuration Wizard

Domain Controller Options

TARGET SERVER
server1

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select functional level of the new forest and root domain

Forest functional level:

Windows Server 2016

Domain functional level:

Windows Server 2016

Specify domain controller capabilities

☒ Domain Name System (DNS) server

☒ Global Catalog (GC)

☐ Read only domain controller (RODC)

Type the Directory Services Restore Mode (DSRM) password

Password:

.....

Confirm password:

.....

[More about domain controller options](#)

< Previous

Next >

Install

Cancel



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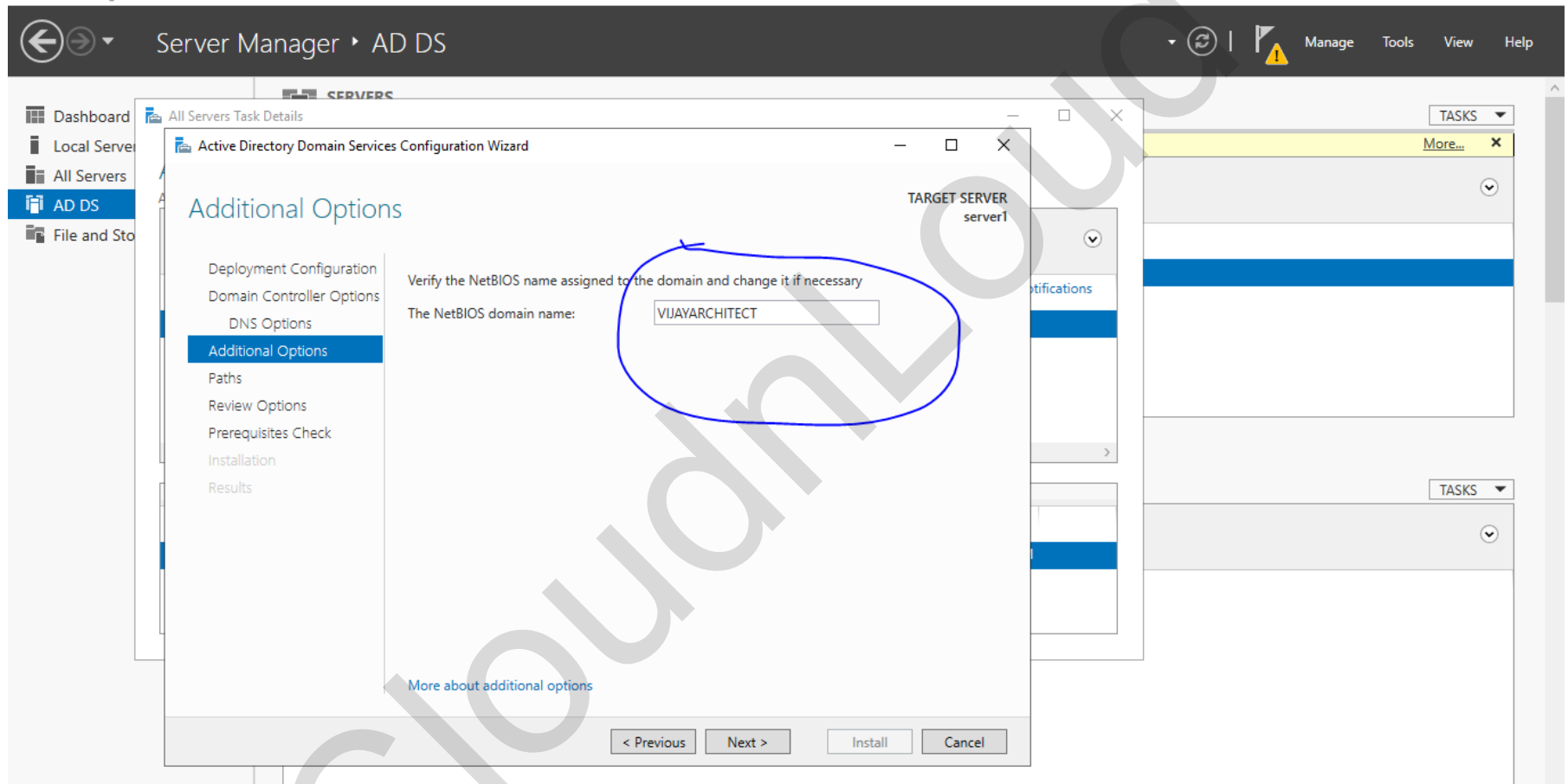
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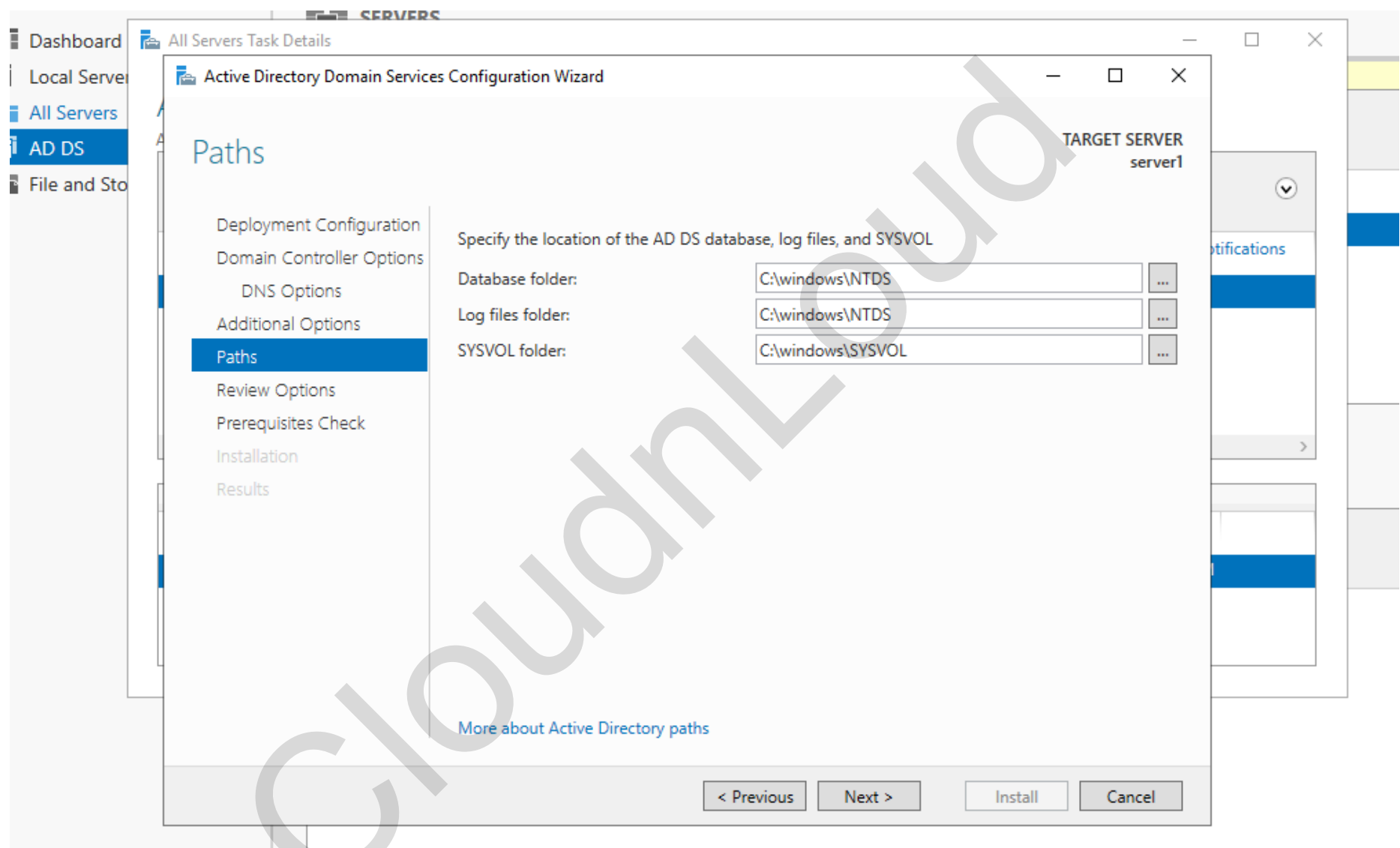
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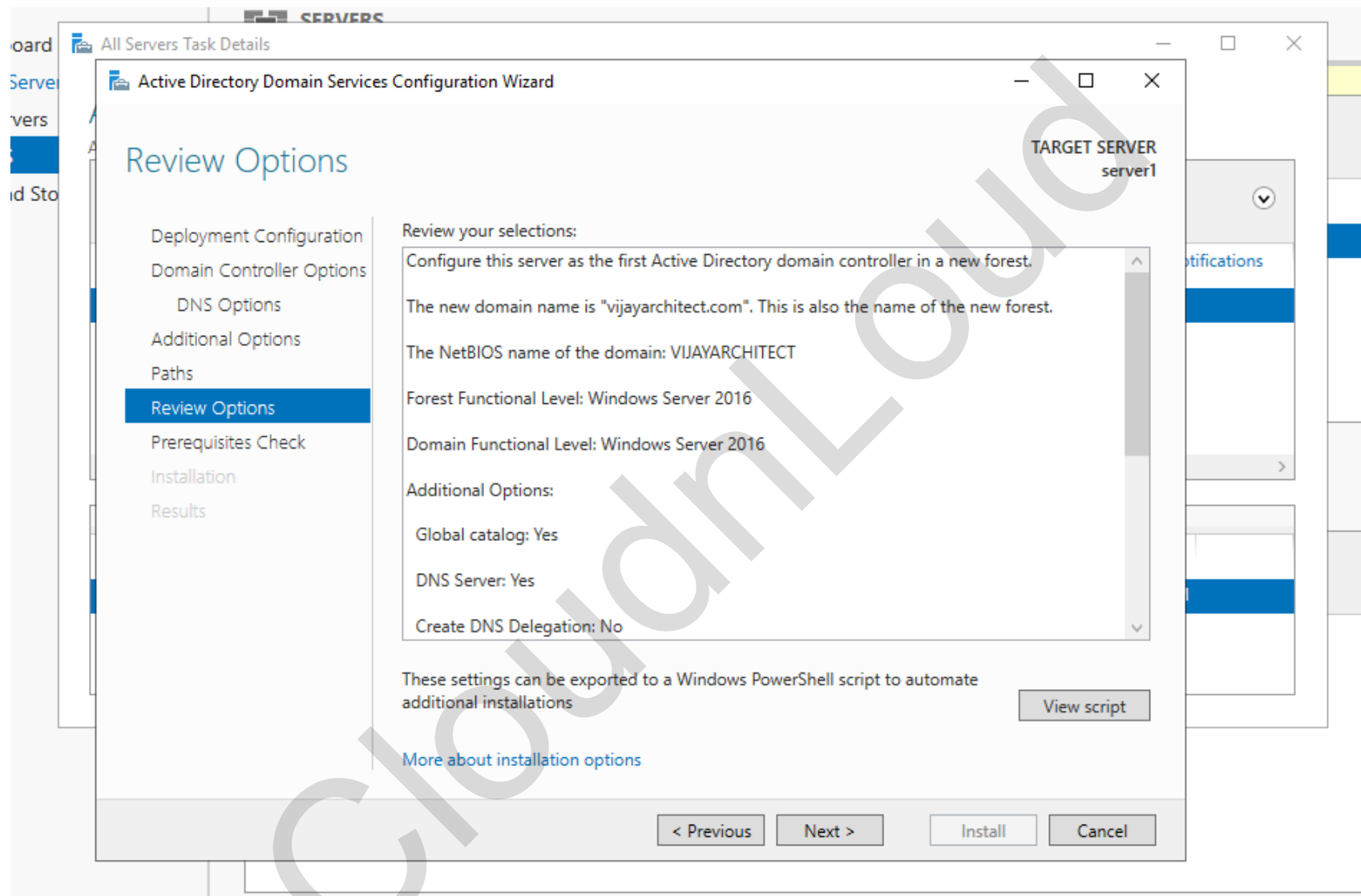
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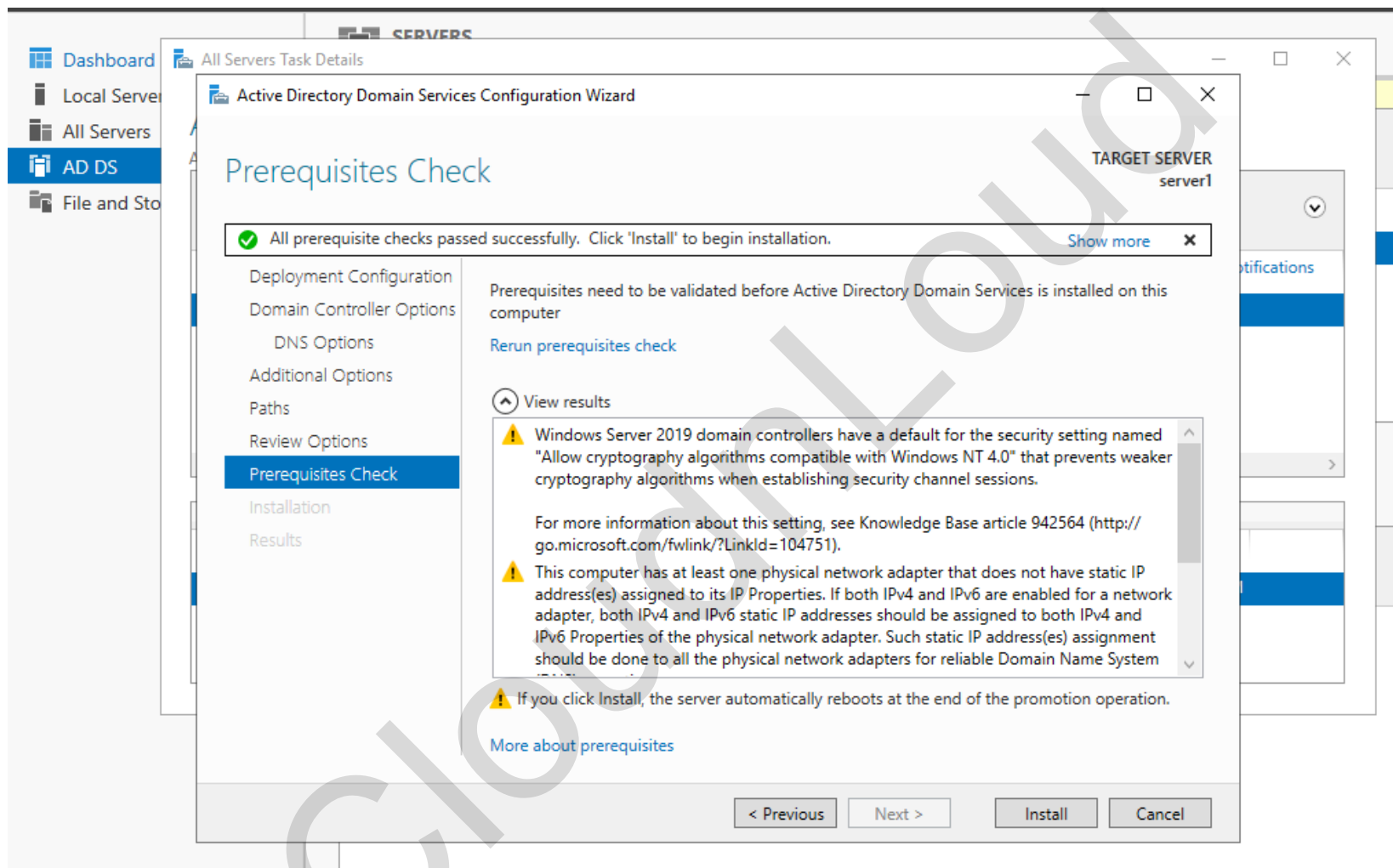
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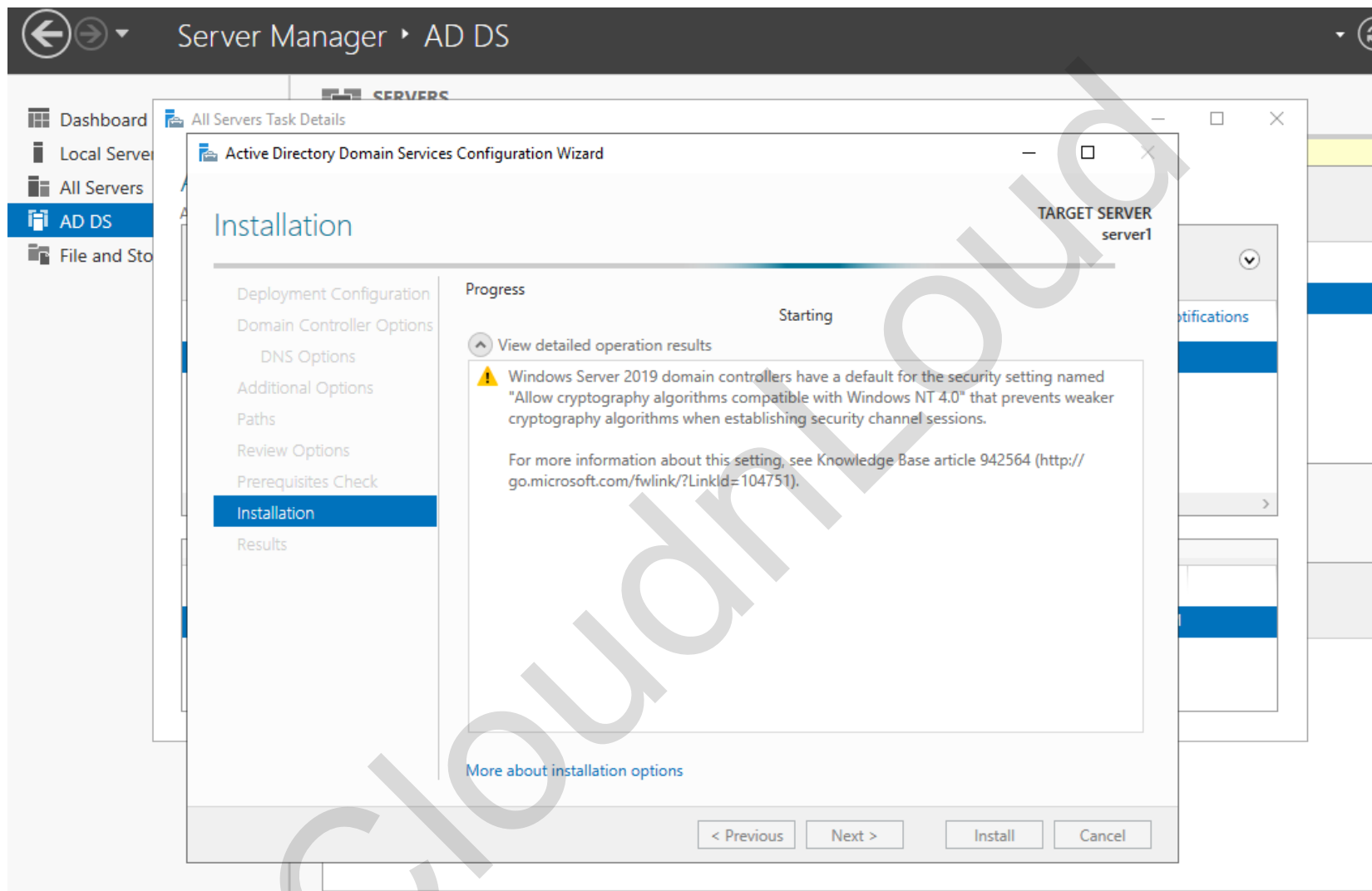
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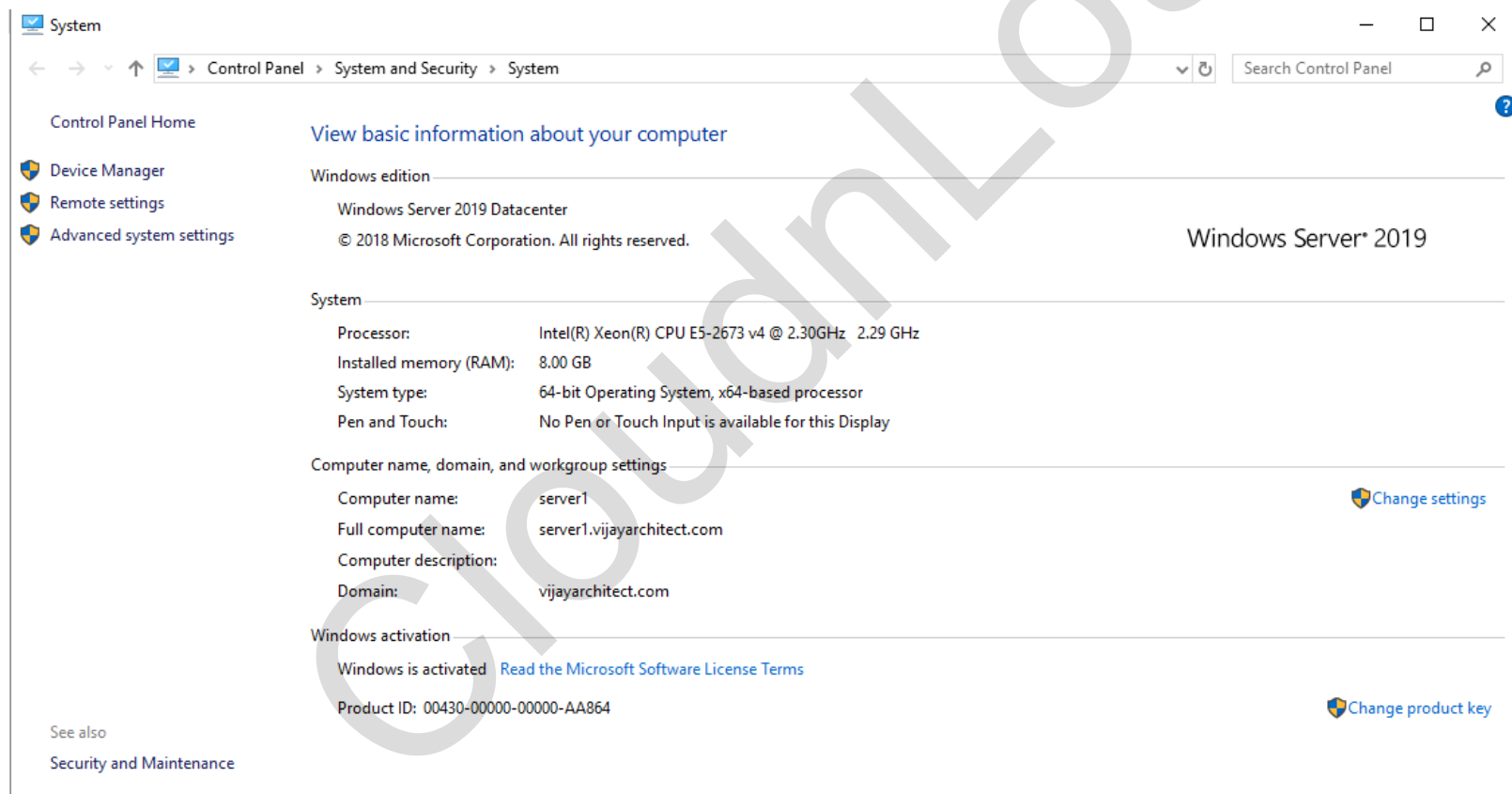
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Windows server will be rebooted now

See now the windows server is configured as an domain controller.



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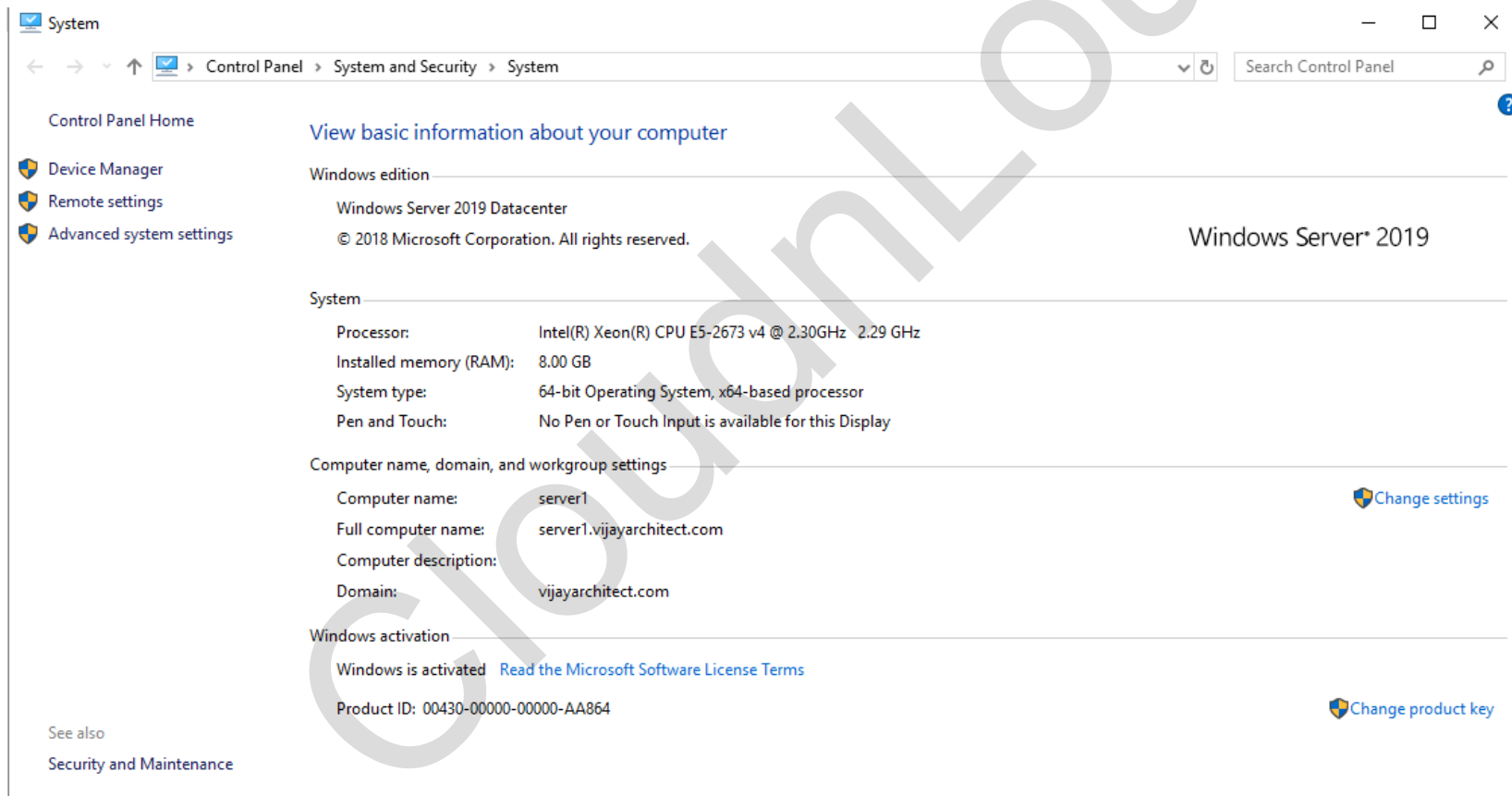


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Assume this Domain Controller server is located into your Chennai Office



The screenshot shows the Windows System Control Panel window. The title bar reads "System". The breadcrumb navigation is "Control Panel > System and Security > System". The left sidebar contains links: "Control Panel Home", "Device Manager", "Remote settings", and "Advanced system settings". The main content area is titled "View basic information about your computer". It displays the following information:

- Windows edition:** Windows Server 2019 Datacenter. © 2018 Microsoft Corporation. All rights reserved. Windows Server® 2019
- System:**
 - Processor: Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz 2.29 GHz
 - Installed memory (RAM): 8.00 GB
 - System type: 64-bit Operating System, x64-based processor
 - Pen and Touch: No Pen or Touch Input is available for this Display
- Computer name, domain, and workgroup settings:**
 - Computer name: server1 [Change settings](#)
 - Full computer name: server1.vijayarchitect.com
 - Computer description:
 - Domain: vijayarchitect.com
- Windows activation:**
 - Windows is activated [Read the Microsoft Software License Terms](#)
 - Product ID: 00430-00000-00000-AA864 [Change product key](#)

At the bottom left, there is a "See also" section with a link to "Security and Maintenance".



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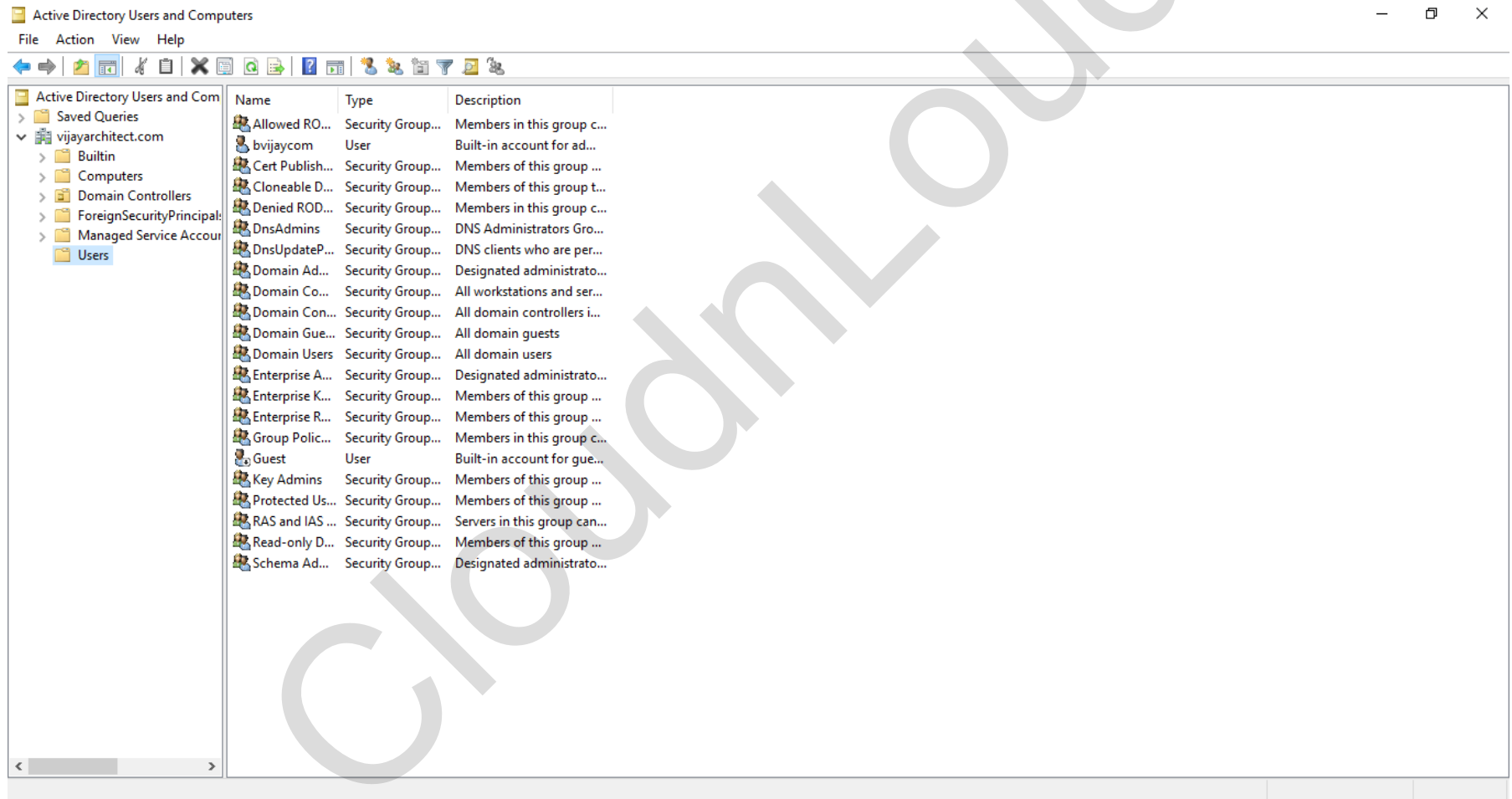


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See users



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