Microsoft

# Azure RDS Manager Deployment Guide

## Step #1 How to Set Up an Azure RDS Deployment

**Prepared for**

Service Providers

**Prepared by**

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Microsoft OCP

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# Revision and Signoff Sheet

## Change Record

| Date | Author | Version | Change Reference |
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## Reviewers

| Name | Version Approved | Position | Date |
|---|---|---|---|
| | | | |

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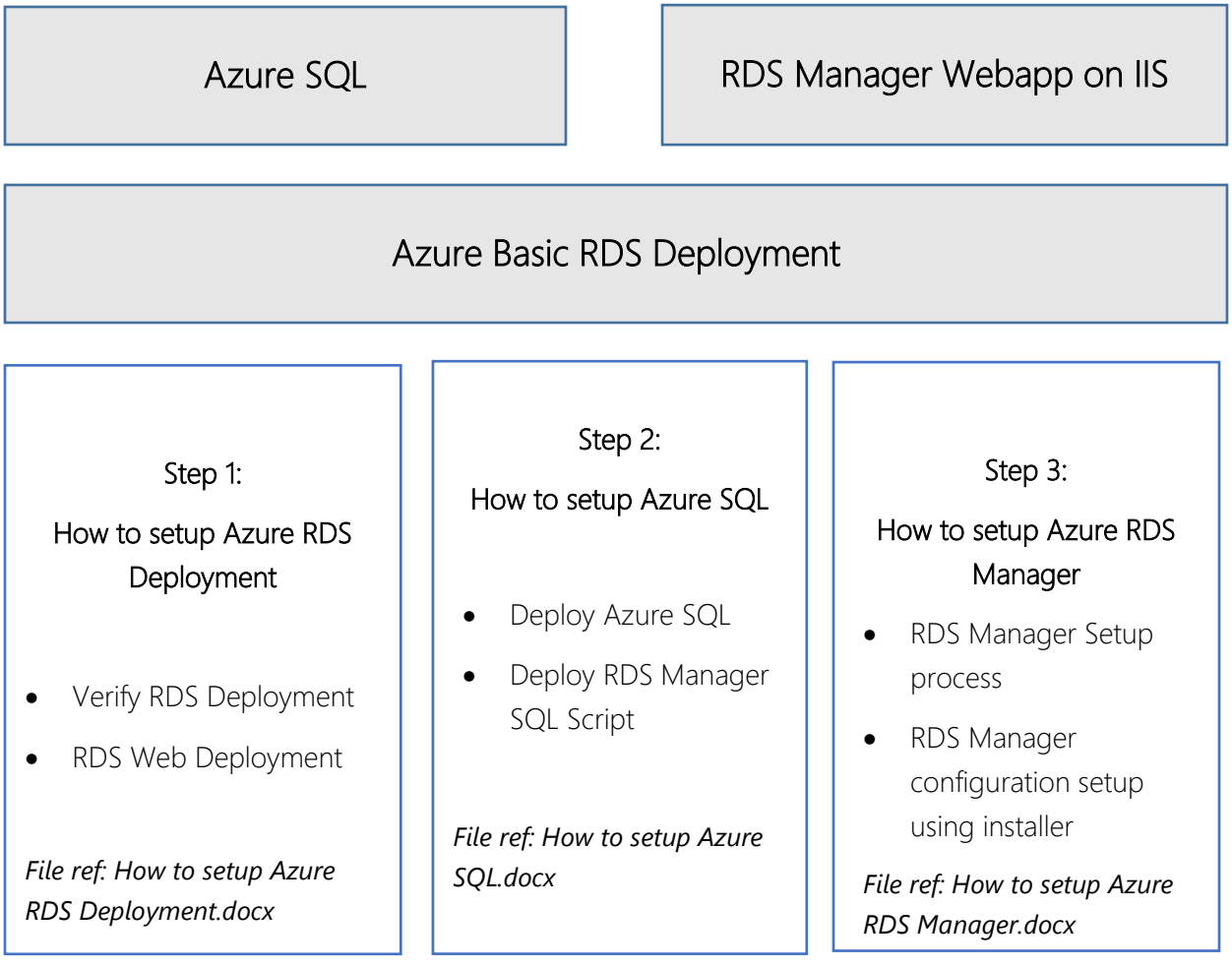
# Introduction

This document provides a step-by-step guide for a Remote Desktop Services (RDS) Deployment.

## About This Document

This document describes the Azure Basic RDS Manager Farm Deployment. The complete installation is divided into 3 steps. This document covers Step 1.



# Prerequisites

1. You must have a valid Azure user account with an Azure subscription
2. To Access and Manage the Azure Resource Manager, you must be be an Owner/Contributor

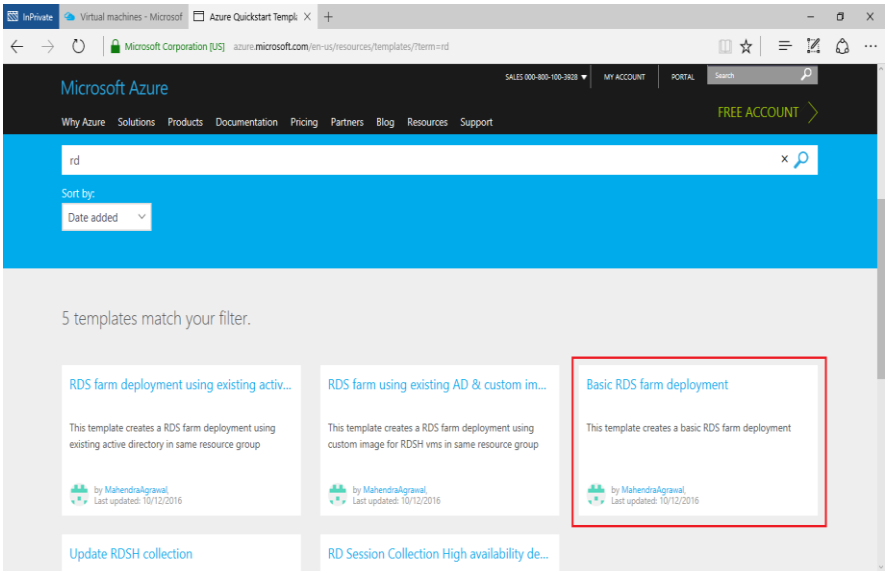
# Installation Procedure

1. Estimated time to complete Setup: 2 hours
2. Refer to the screenshots provided for each action

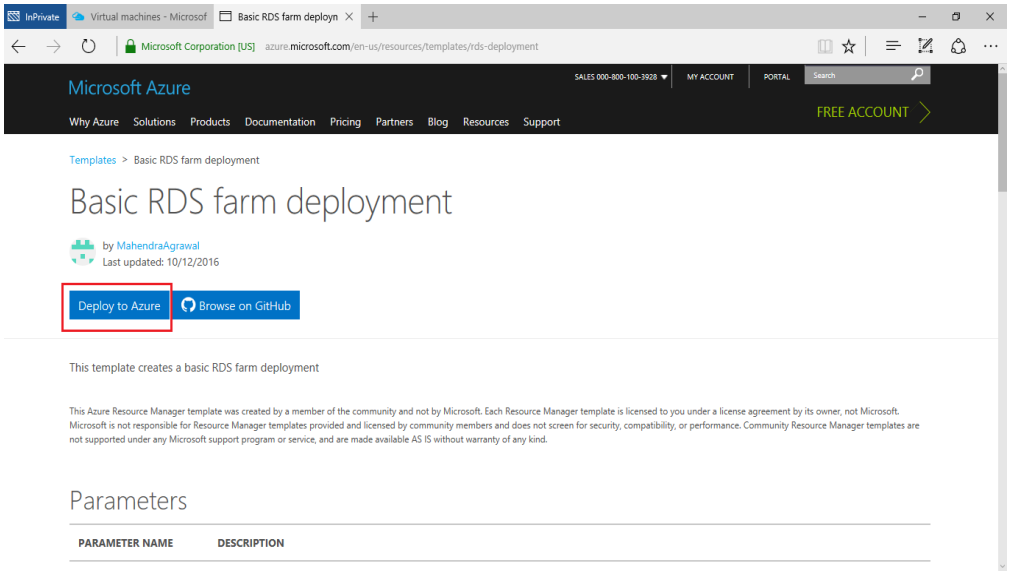
## Deploying Azure RM Basic RDS Farm

1. Login to the Azure portal URL at **https://portal.azure.com** with valid credentials
2. Deploy a Basic RDS Farm on Azure ARM
    a. Open the **Azure quick start template** page
        i. **https://azure.microsoft.com/en-us/resources/templates/?term=rd** or navigate to the basic **RDS ARM Deployment Template** directly at **https://azure.microsoft.com/en-us/resources/templates/rds-deployment/**

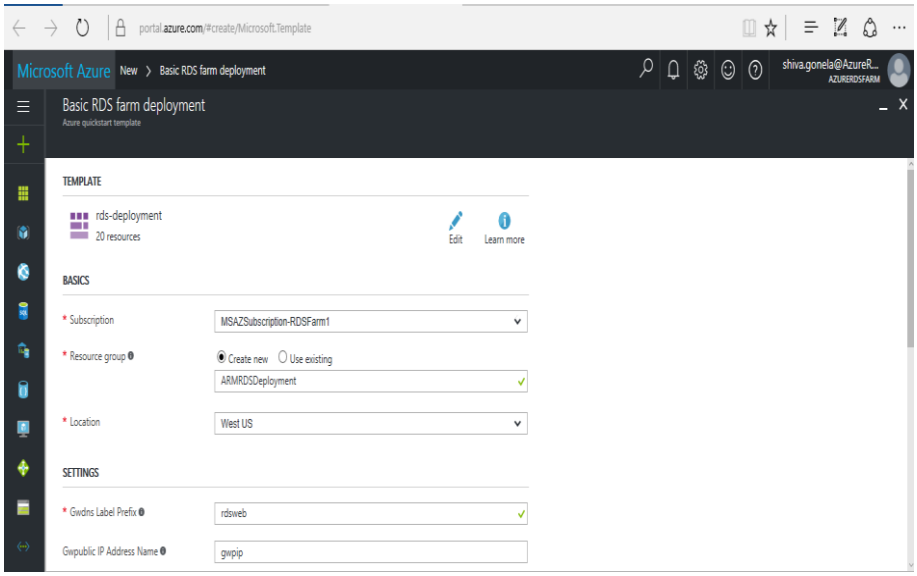
3. On the **Azure quick start template** page, click **Basic RDS farm deployment**




4. On the **Basic RDS farm deployment** page, click **Deploy to Azure** to launch the Azure ARM portal (Log in, as previously instructed, to ensure you land directly on the ARM Template Deployment Page on Azure)

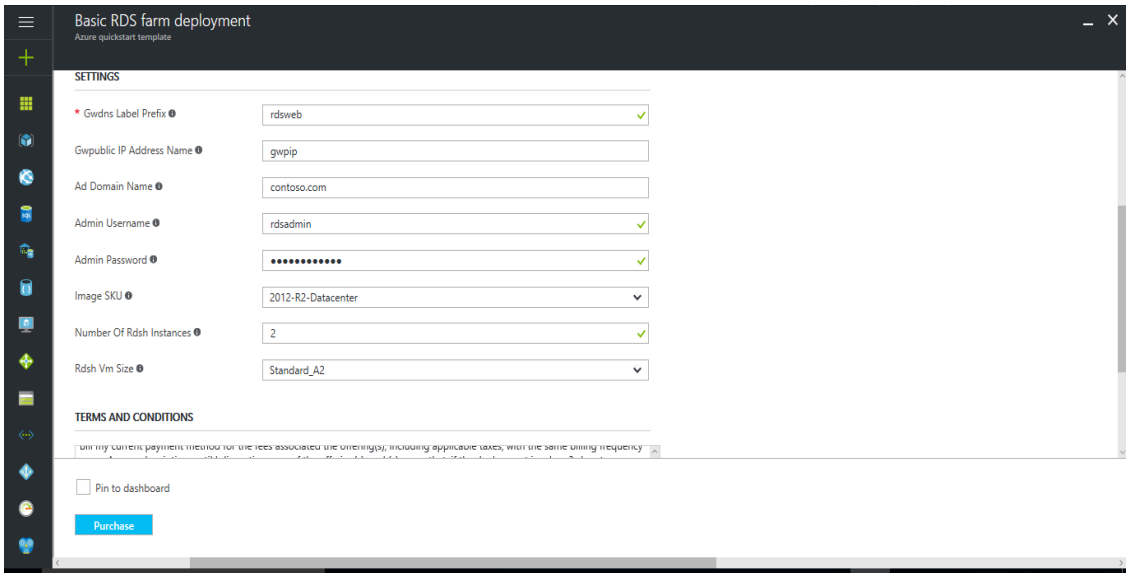


5. On the **ARM Template Deployment** page, specify details under **BASICS**



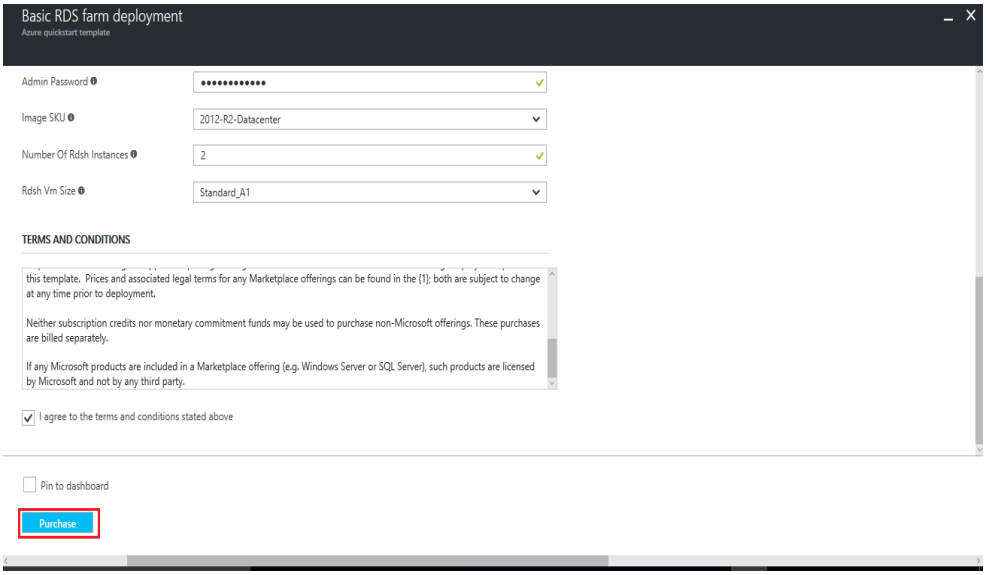

- **Subscription**: Select the existing subscription for deployment from the dropdown list
- **Resource Group**: Select **Create new** and specify a name for the **Resource group**
- **Location**: Select the location nearest the customer base

6. Specify the following details under **SETTINGS**



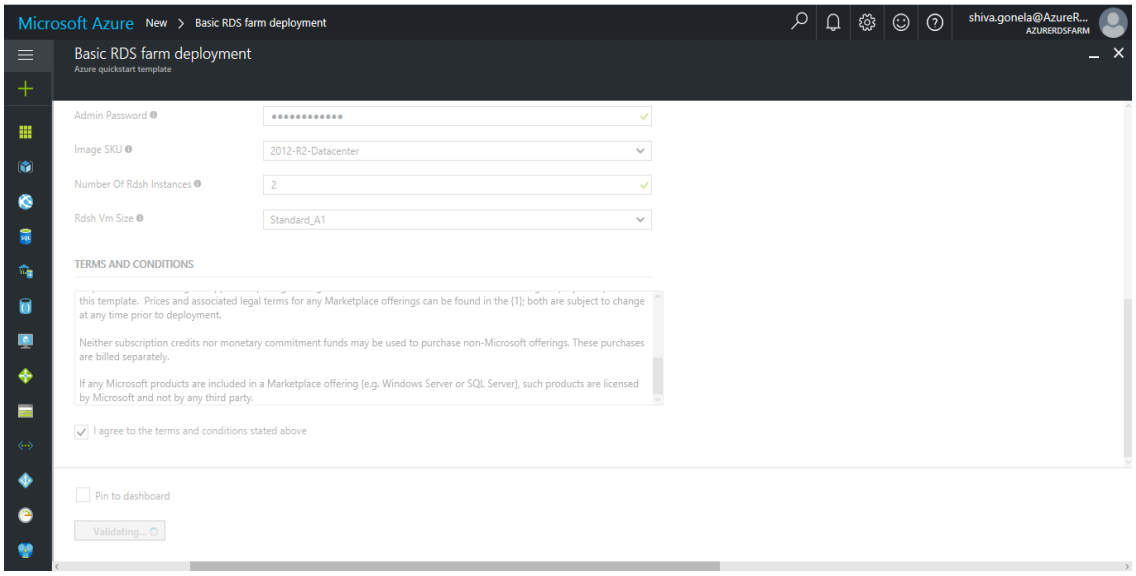
- Gwdns Label Prefix: Specify a unique gateway server DNS name: Unique gateway public DNS prefix for the deployment. The FQDN will look something like 'westus.cloudapp.azure.com'. Up to 62 charachters, digits dashes, and lowercase, should start with a letter: must conform to '^[a-z][a-z0-9-]{1,61}[a-z0-9]$'
- Gwpublic IP Address: This IP address can be set to Default
- Ad Domain Name: Enter the Domain Name – for example, contoso.com
- Admin Username: Enter the Admin Username
- Admin Password: Enter the Admin Password. The password must include 1 uppercase character, 1 lowercase character, 1 number, 1 special character, and a maximum of 8 characters
- Image SKU: Specify either 2016 server or 2012-R2-Datacenter from the dropdown list
- Number of RDSH Instances: Specify the number of required RDSH instances to deploy
- RDSH VM Size: Specify the RDSH instance VM size

7. In Terms and Conditions, read all the terms and conditions and click the checkbox 'I agree to the terms and conditions stated above' then click Purchase

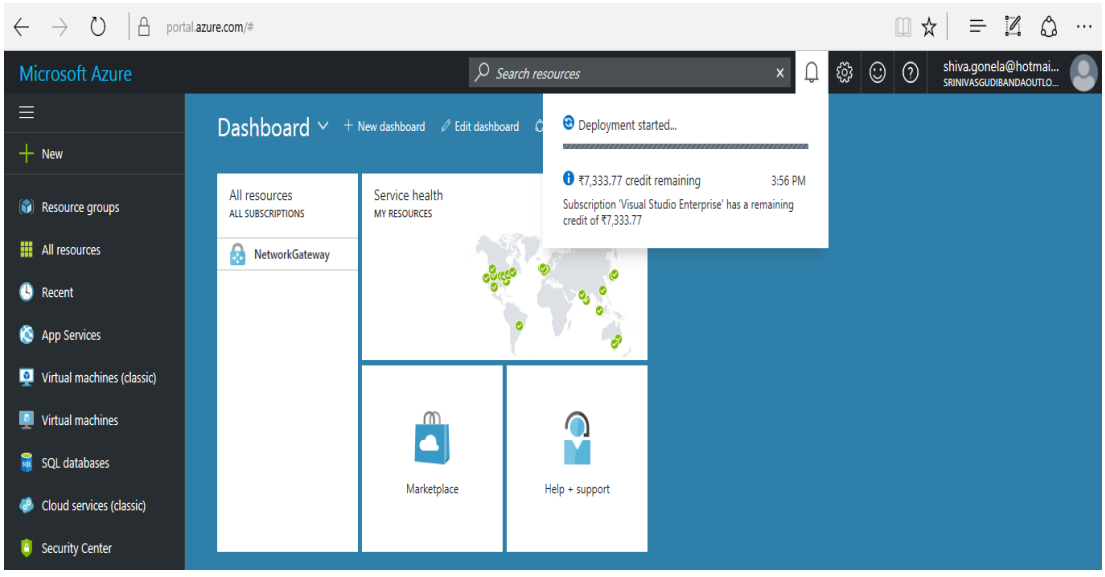


# Validation Process and Deployment Status

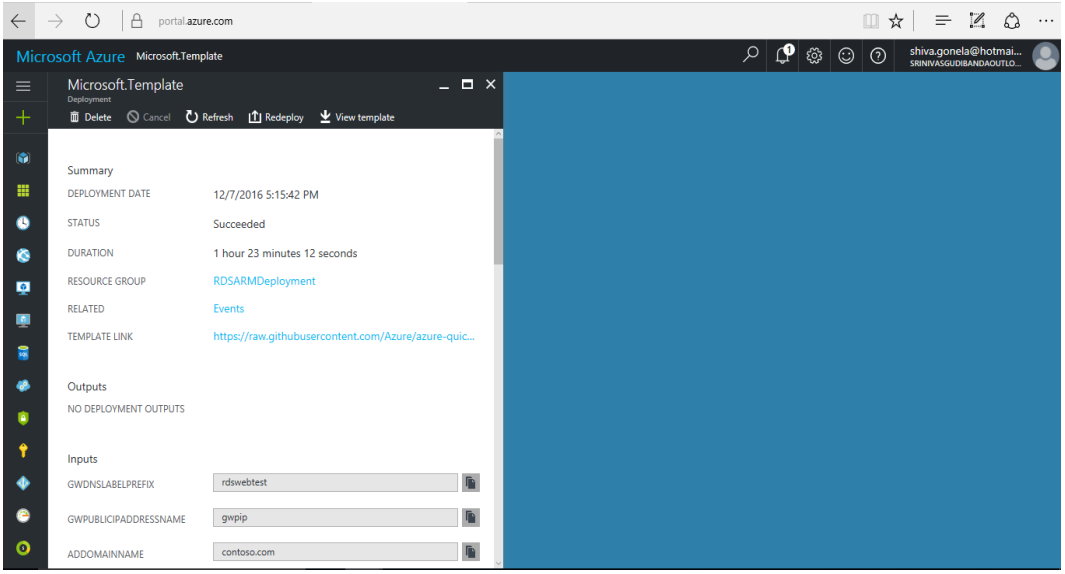
1. Once the **Purchase** operation is complete, the **ARM Template** will be validated and progress can be tracked




2. Click the notification icon on the top right of the screen to follow the deployment status

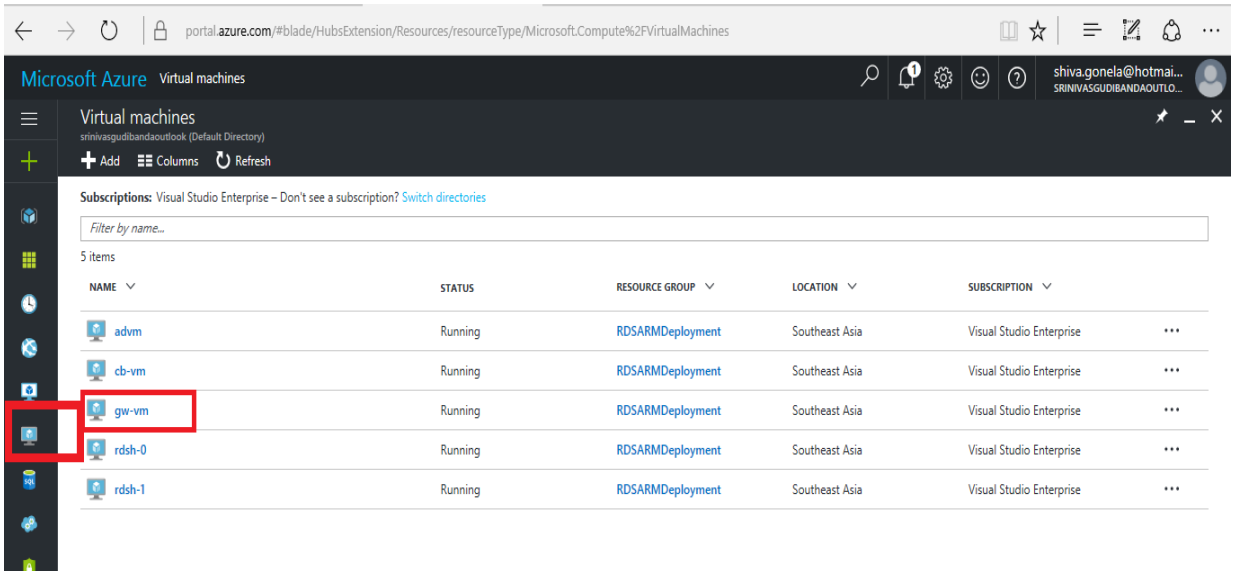


3. When the deployment is complete, the **Deployment Status Summary** will be displayed

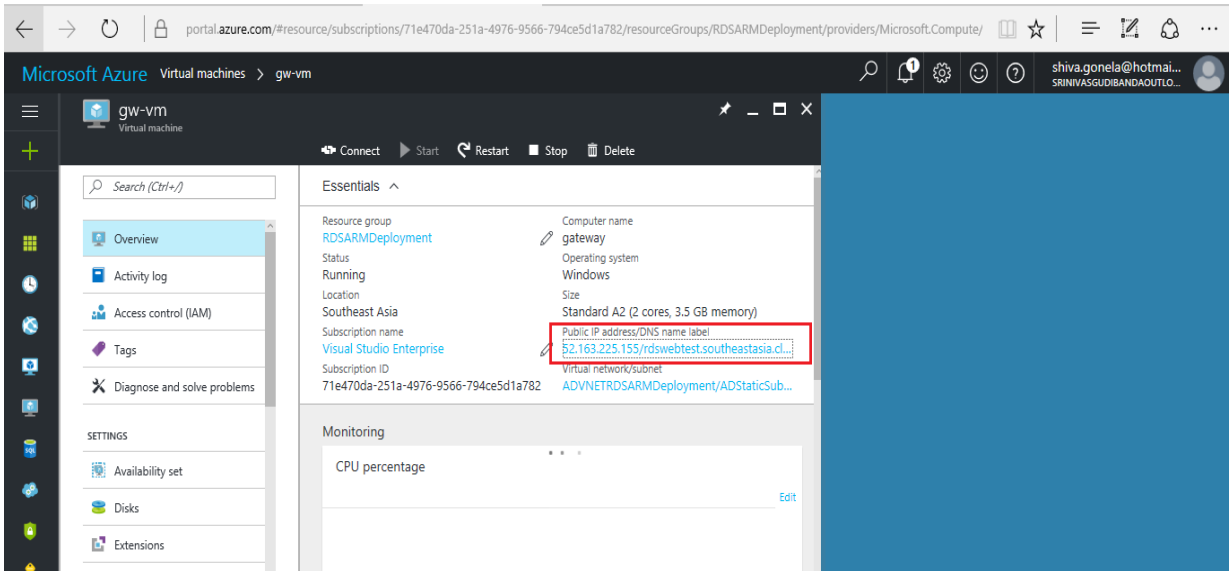



## Checking the deployed Virtual Machines

1. Click the **Virtual Machines** tab



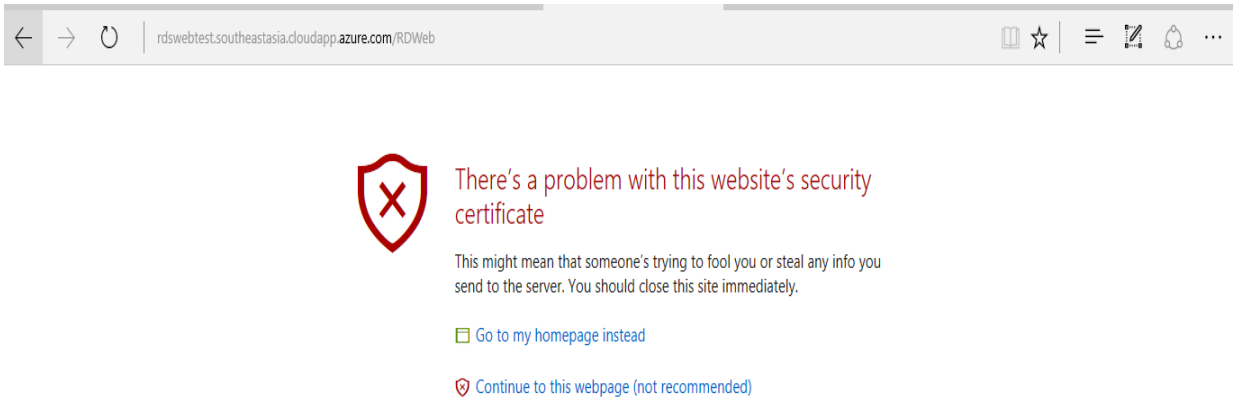
2. Click **gw-vm (Gateway Server)**
3. Copy the DNS Name Label – in this example, **rdswebtest.southeastasia.cloudapp.azure.com**



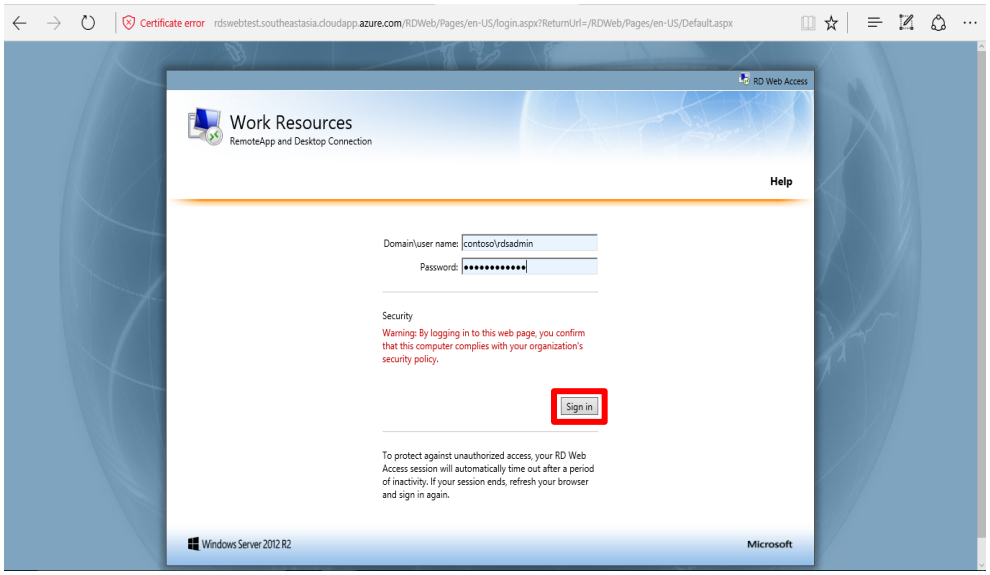

## Testing RDS Web from the Client Side (Optional)

1. The RDS Web will be configured on the IIS of Gateway Server (GW-VM) with the RDWeb Directory path
2. GW-VM is configured with both Gateway Server role and Web Access role
3. The Web Access URL is **https://gw-vm DNS Name Label /RDWeb,** in this example, https://rdswebtest.southeastasia.cloudapp.azure.com/RDWeb
4. Copy the link and paste it into a browser to access RDWeb
5. Ignore the certificate issues as we have not configured those yet. We can store the certificate locally to authenticate

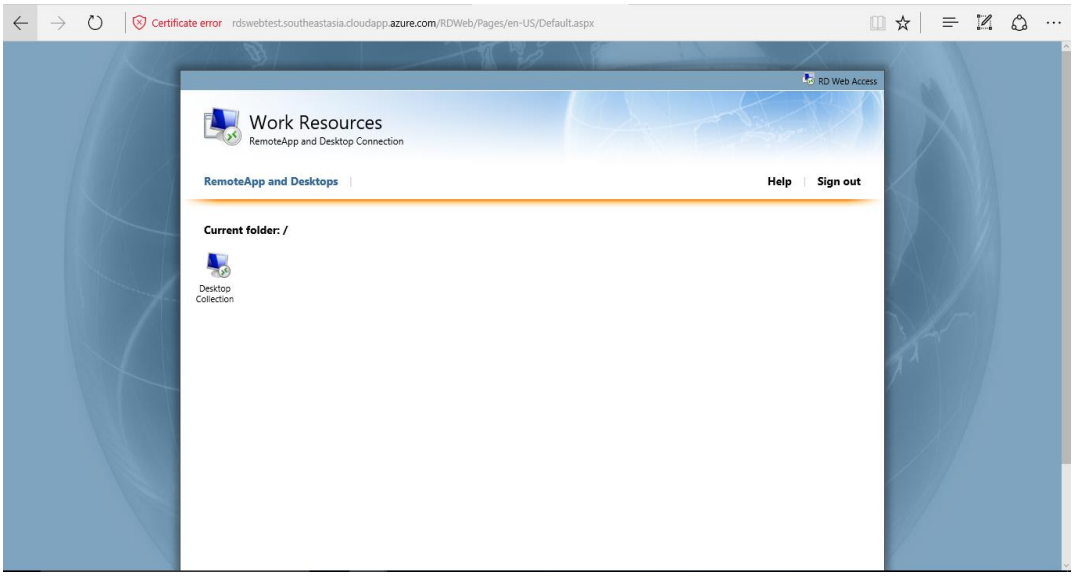
6. Click **Continue to this webpage (not recommended)**




7. On the **Work Resources** page, specify the Username (Domain_name\user_name) and the Password
    a. Use the same username and password entered while deploying the RDS Template

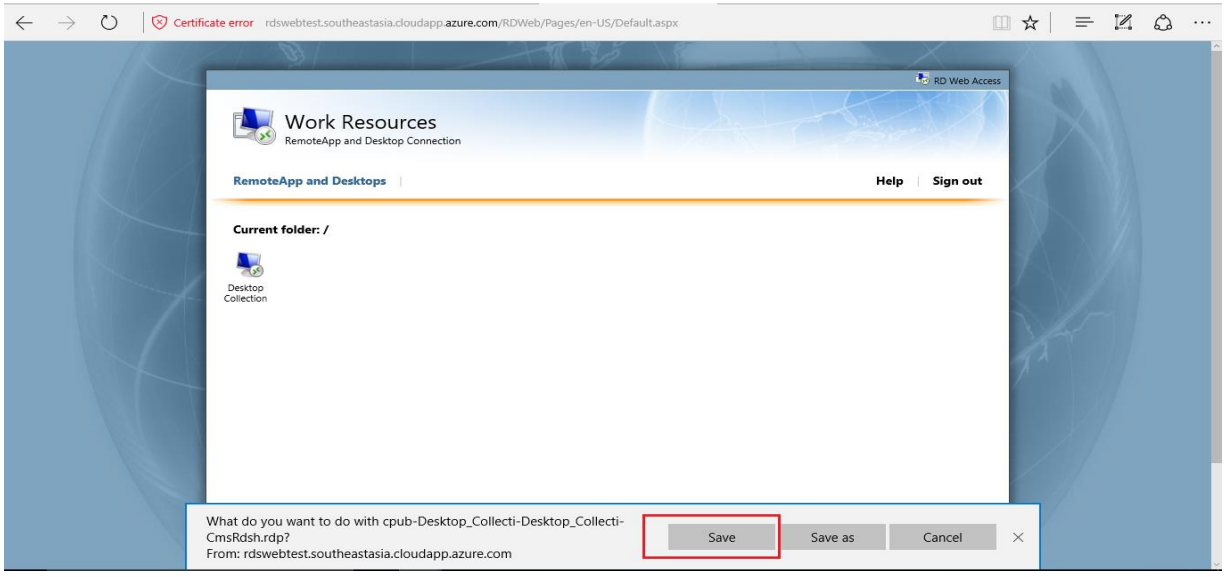


8. Click **Sign in**
9. When the sign-in operation is successful, the user will get the following screen with Remote Desktop

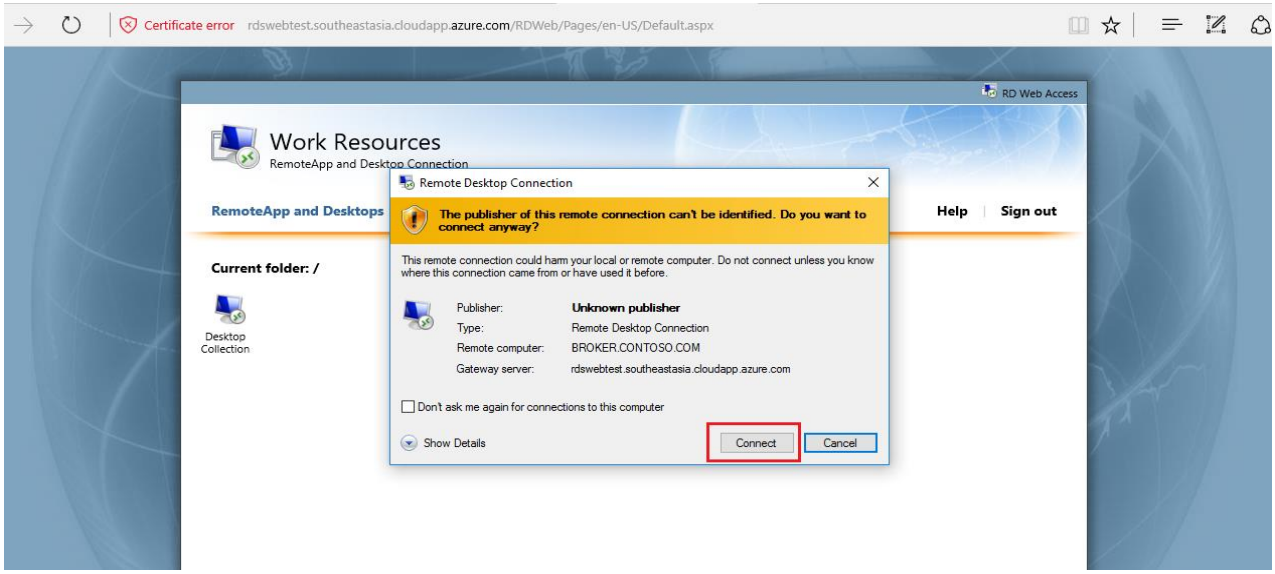



## Adding local certificate and Accessing Remote Desktop

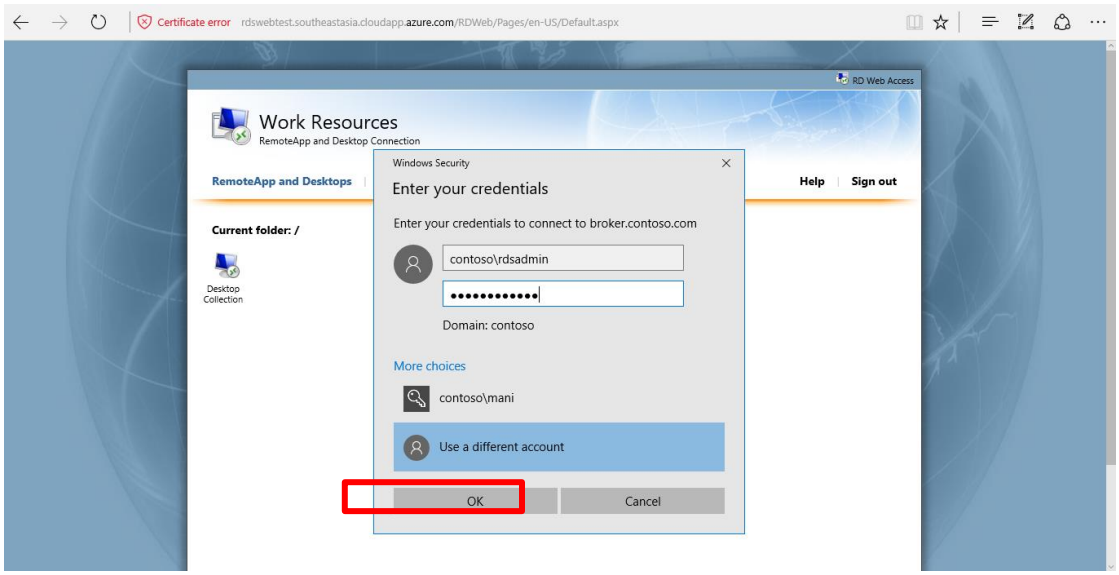
1. Double-click the **Desktop Collection** icon
2. An .rdp file will be downloaded with a notification bar for confirmation



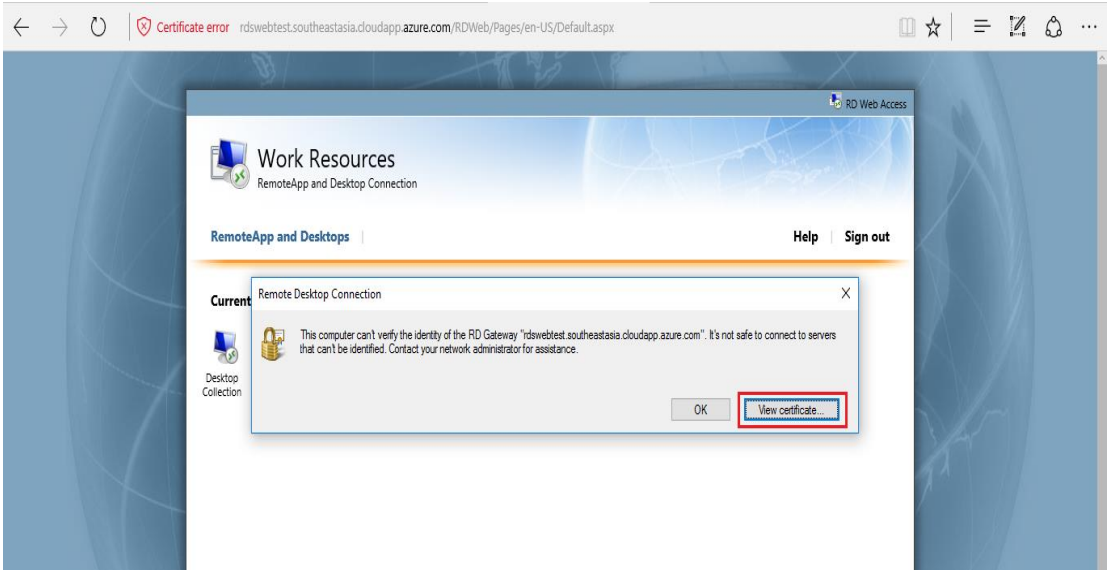
3. Click **Save** to save the file to a known directory
4. Open the .rdp file
5. Click **Connect** to launch a new tab. Specify the username and password for the remote desktop



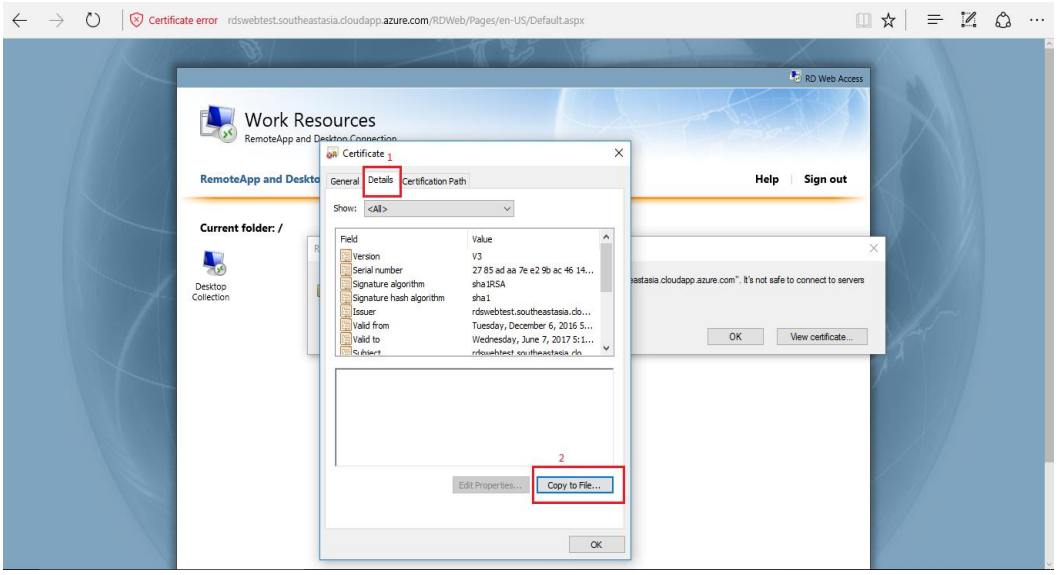

6. Specify the login credentials used in RDWeb and click **OK**. A dialog box will launch with a message about the certificate



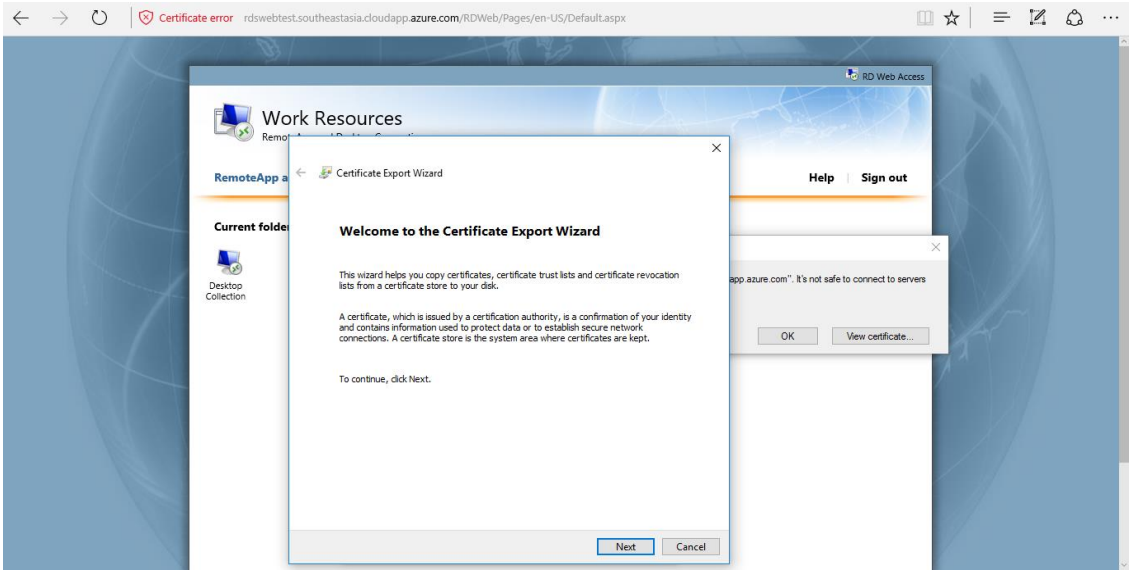
7. Click **View Certificate** to copy the certificate locally for authorization



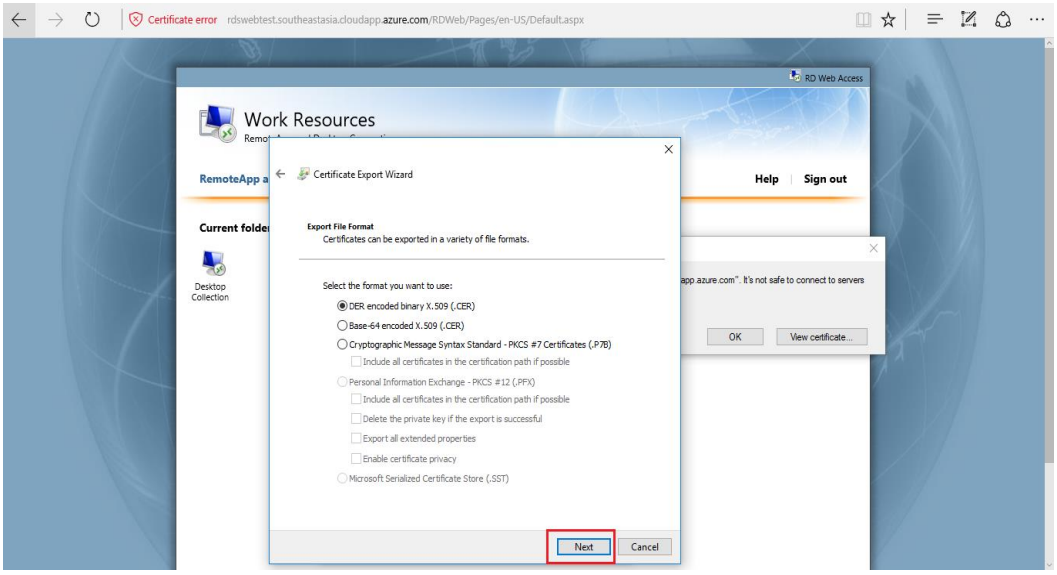

8. On the **Details** tab, click **Copy to File** to launch a dialog box with the **Certificate Export Wizard**



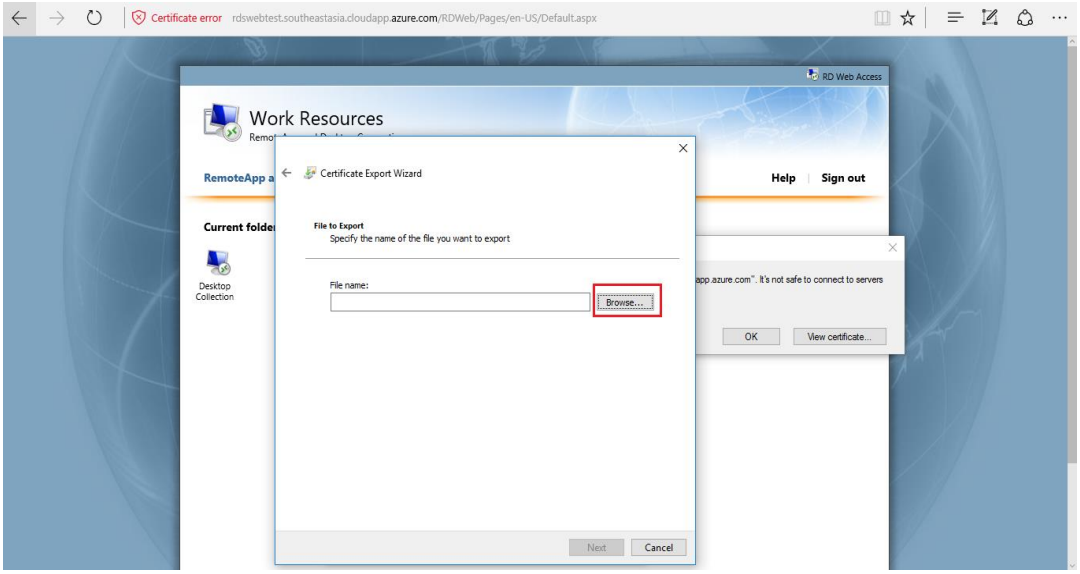
9. Click **Next**



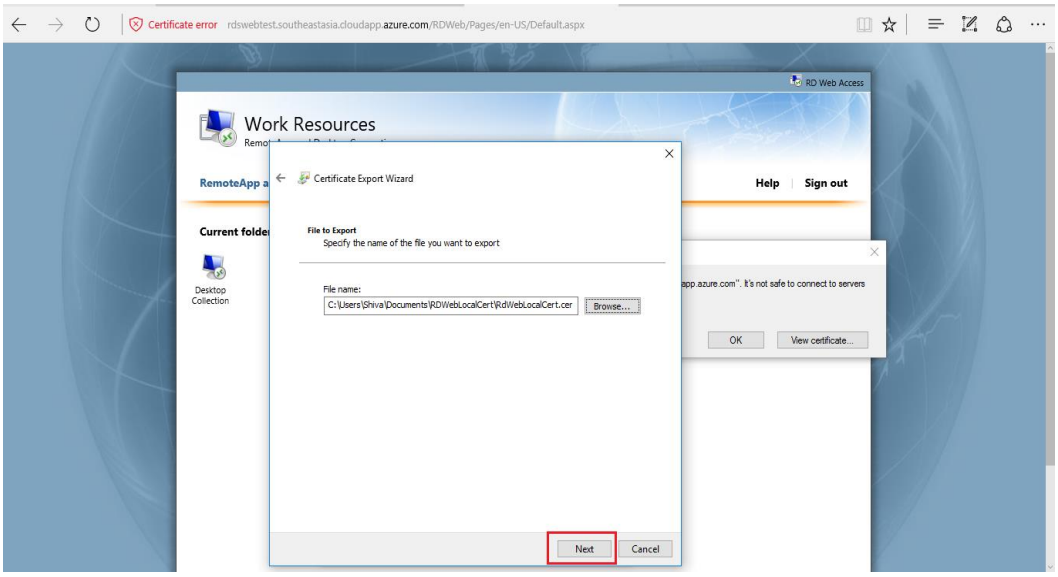

10. Click the option for the **DER encoded binary X.509 (.CER)** then click **Next**



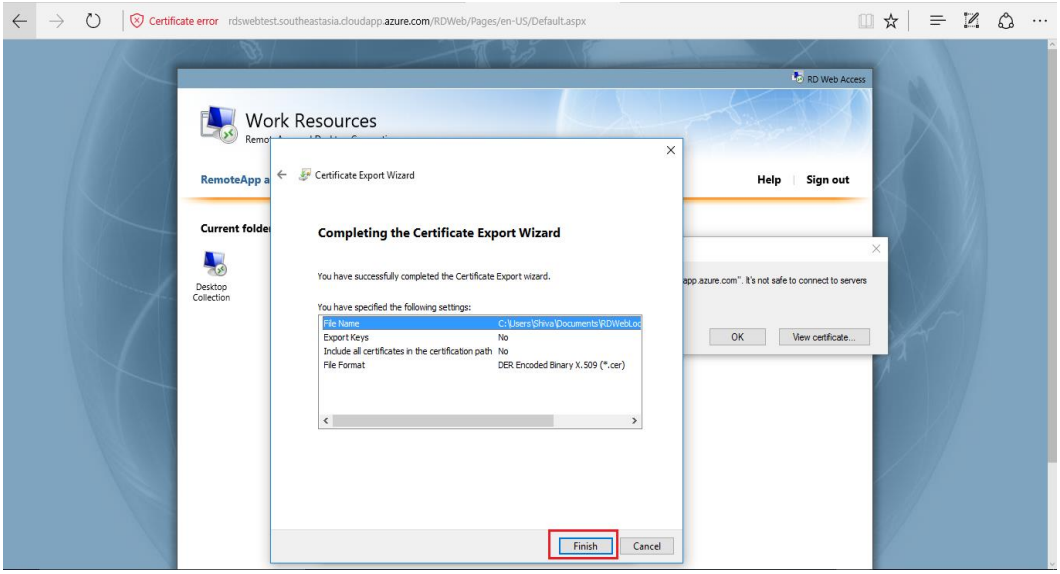
11. Click **Browse** and specify the location to store the exported certificate on the local system



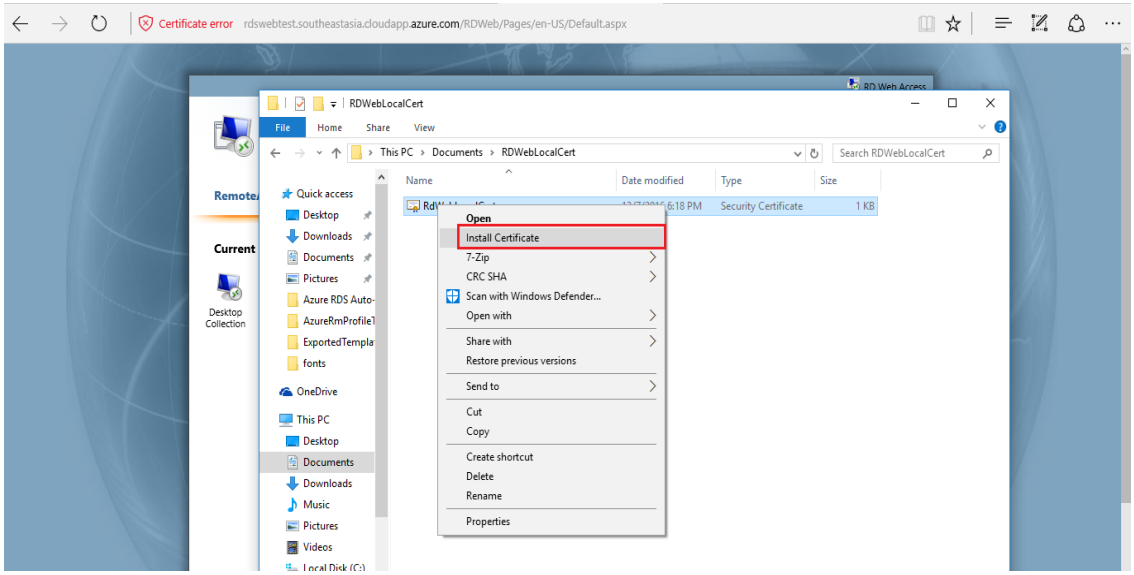

12. After specifying the location, click **Next**

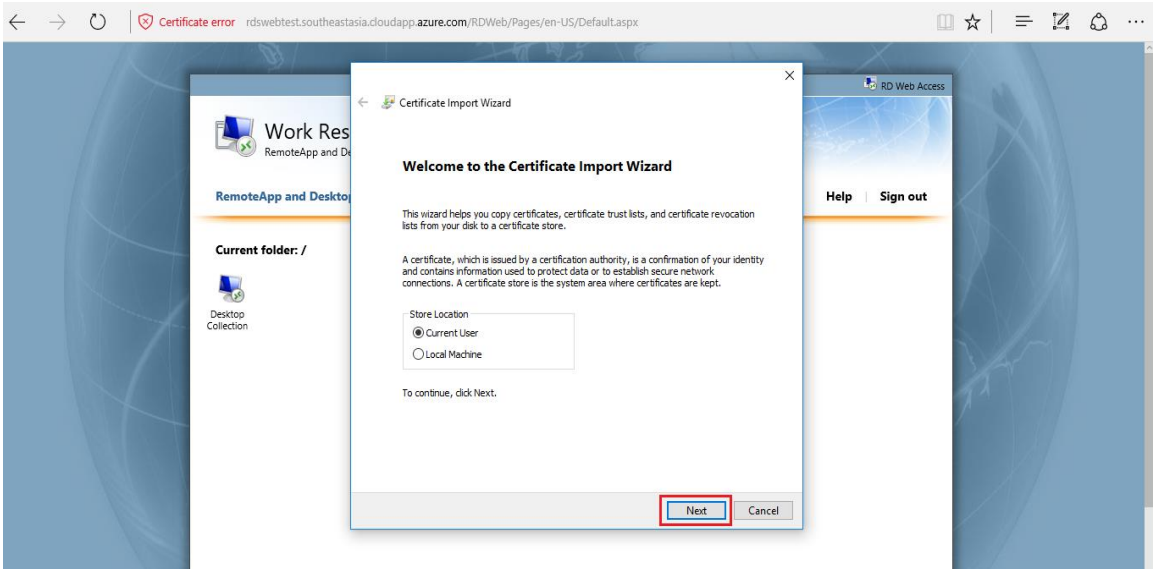


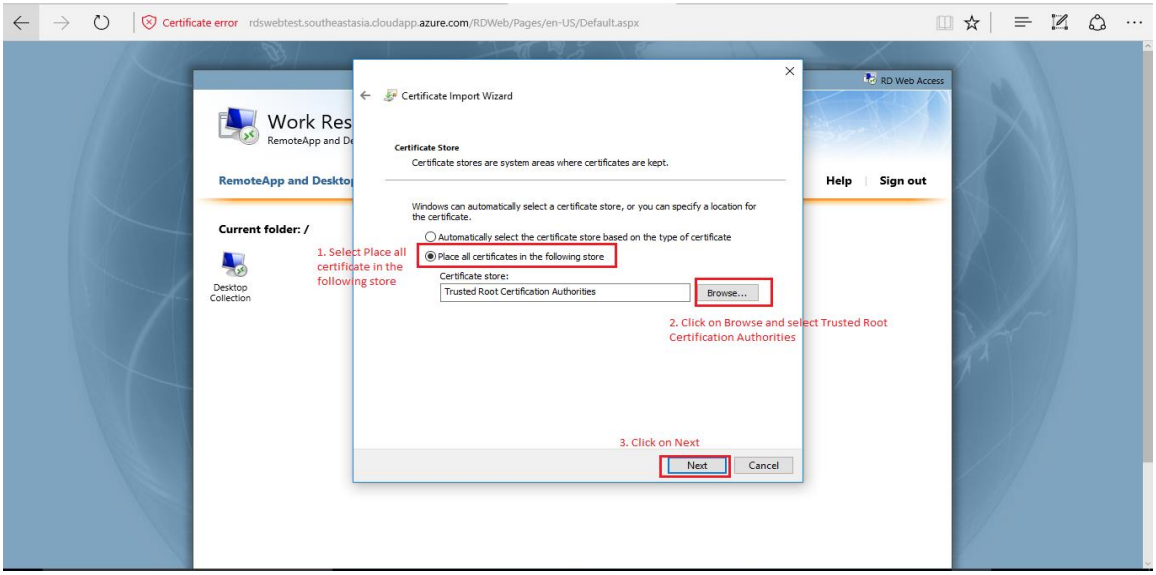
13. Click **Finish** and then click **OK** on the alert message

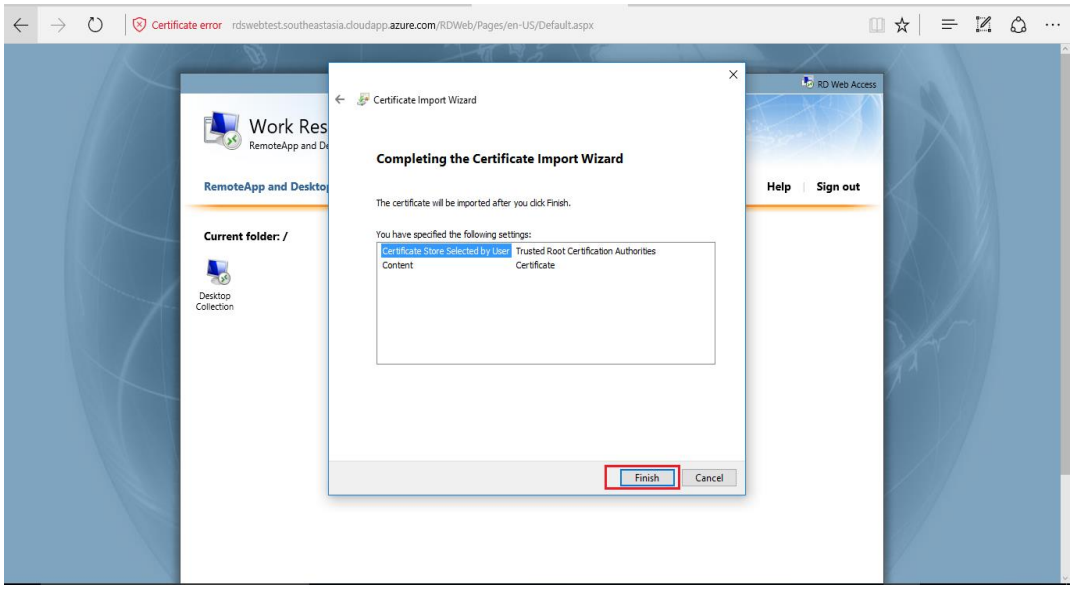



14. To install the exported certificate to a local certificate directory, open the location where the user has exported the certificate and use the following steps

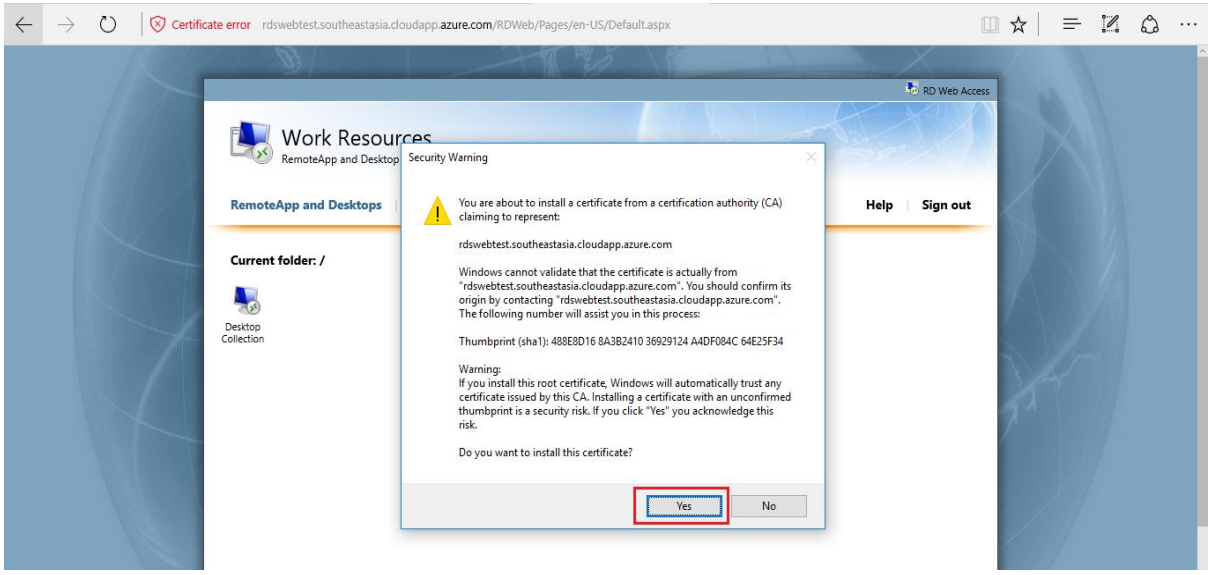



Certificate error
rdswebtest.southeastasia.cloudapp.azure.com/RDWeb/Pages/en-US/Default.aspx
RD Web Access
Work Res
RemoteApp and D
RemoteApp and Deskto
Help
Sign out
Current folder: /
Desktop Collection
Certificate Import Wizard
Welcome to the Certificate Import Wizard
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
Store Location
Current User
Local Machine
To continue, click Next.
Next
Cancel

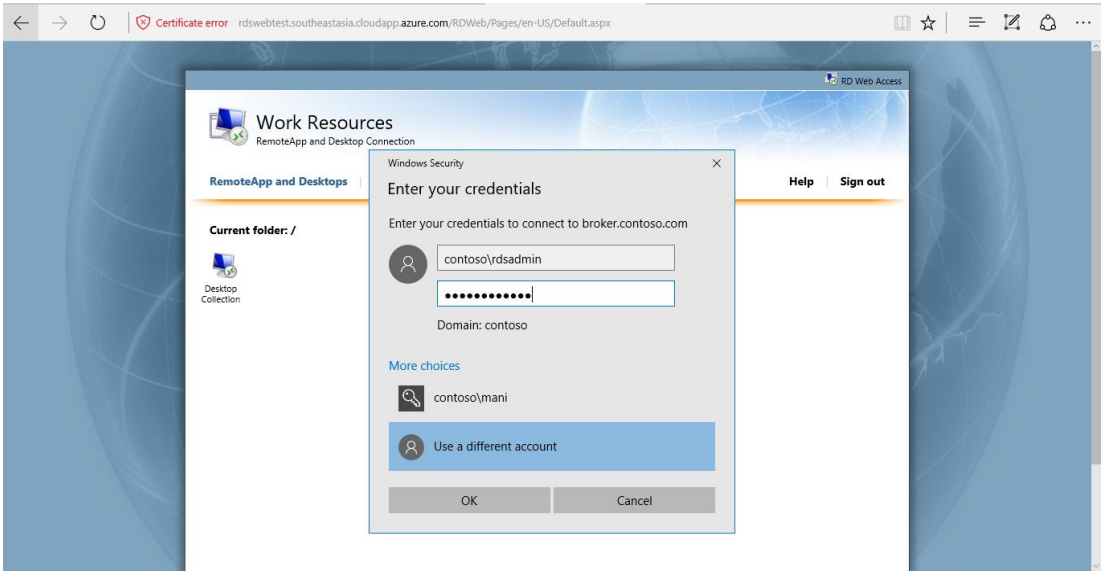

Certificate error
rdswebtest.southeastasia.cloudapp.azure.com/RDWeb/Pages/en-US/Default.aspx
RD Web Access
Work Res
RemoteApp and D
RemoteApp and Deskto
Help
Sign out
Current folder: /
Desktop Collection
Certificate Import Wizard
Certificate Store
Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for the certificate.
Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Trusted Root Certification Authorities
Browse...
1. Select Place all certificate in the following store
2. Click on Browse and select Trusted Root Certification Authorities
3. Click on Next
Next
Cancel



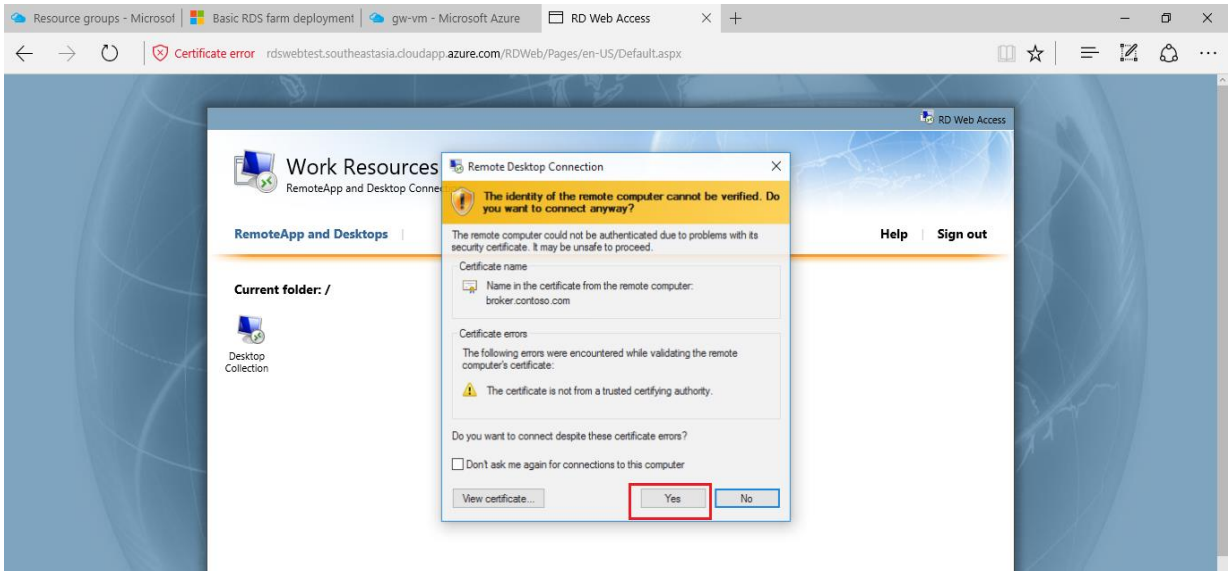

15. When the **Certificate Import Wizard** is complete, a security warning dialog box will be displayed. Click **Yes** and then click **OK**



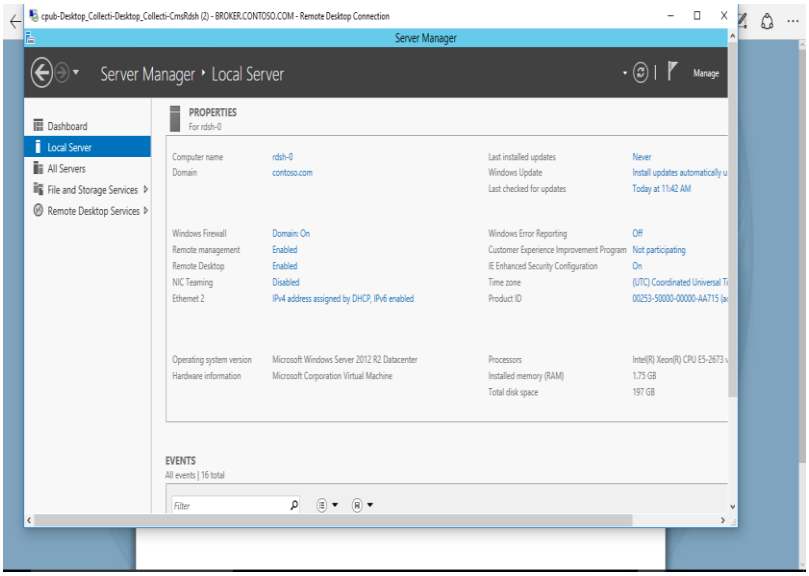
16. Open the .rdp file which was downloaded to access the desktop collection. Specify the login credentials and then click **OK**




17. It will now pass through the certificate issue, click **Yes** to get connected to Remote Desktop Server



18. Remote Desktop Server is connected



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# Glossary

| Abbreviation | Definition |
|---|---|
| ARM | Azure Resource Manager |
| DNS | Domain Name Server |
| GW | Gateway Server |
| IIS | Internet Information Service |
| RDP | Remote Desktop Protocol |
| RDS | Remote Desktop Services |
| URL | Uniform Resource Locator |
| VM | Virtual Machine |