

Penetration Testing Timeline



SCHEDULING

2-4 Months Before Penetration Test



TESTING PREPARATION

5 Weeks Before Penetration Test



AUTOMATED/MANUAL TESTING

During Penetration Test



REPORTING

0-6 Weeks After Penetration Test



REMEDIATION

0-3 Months After Penetration Test



RETESTING

0-3 Months After Penetration Test



AFTER RETESTING

Ongoing



SCHEDULING (2-4 Months Before Penetration Test)

You've been given a timeline for your assessment, it is important to consider all factors before scheduling a test.

Choose a pentester by verifying that:

- They follow industry best practice standards
- They communicate their testing methodologies

Determine your pentest date by answering these questions:

- Is the pentest starting early enough to leave time for remediation later?
- Is this during a busy time of the year?
 - Will office operations be interrupted?
 - How much notice should we give everyone?

Confirm your timeline with the pentester



Testing Preparation (5 Weeks Before Penetration Test)

You have your technical questionnaire, now you need to address all aspects of testing preparation.

Fill out your questionnaire

Collect and deliver documentation

- Provide as much information as you can by answering:
 - What is your motivation?
 - What do you really want to find out?
 - What are your compliance requirements?

Schedule penetration test

Coordinate with personnel and prepare office

- Inform your entire staff
- Assign team members to assist with pentest

Coordinate with personnel and prepare office

Verify this is done in your IPS (Intrusion Prevention System)
or IDS (Intrusion Detection System)



Automated/Manual Testing *(During Penetration Test)*

During this step, automated scans and manual testing is performed to further assess the security of the target while your team assists to make the process smooth and straightforward.

Ensure that team members are available to assist with questions or issues during testing

Be available and responsive

Don't change the environment

Raise concerns if production is impacted

Plan enough in advance, holidays can be a popular time to book a pentest

Don't change your environment in the middle of the pentest

Pick a time of day for automated scans

Determine how busy your environment is during this time



Reporting *(0-6 Weeks After Penetration Test)*

Now that your penetration test is complete and you've received your report, you should review it to see if the penetration tester was able to identify the root causes of issues.

Evaluate your report, taking note of:

Date of your report

Mark 90 days later on a calendar as the end of retesting window

The executive summary

Statement of the scope

Methodologies

Limitations

Narrative of steps they went through when they found a problem

What tools they used

How vulnerabilities were identified

Begin planning for remediation

Analyze findings

Sometimes they can only see the symptoms of the issue

Look to see if the tester was able to identify root causes

Start addressing root causes



Remediation *(0-3 Months After Penetration Test)*

It's time to review your report and consider the logistics of your remediation and retesting plans.

Remediate items

Schedule retesting

Your development team will want to:

Review changes

Install patches

Reconfigure software

Update code for all applications

Eliminate old OS (Operating System)

Close any non-critical network ports

Restrict Access

Double-check which personnel have access to what

Evaluate how much access every employee actually requires

Confirm all staff only have essential access



Retesting *(0-3 Months After Penetration Test)*

During remediation, you can send your test back over to the penetration testing firm for retesting, and receive a revised report.

Retest (within 90 days of initial report date)

- Certify that fixes are working

- Repeat remediation processes until all fixes are implemented correctly



After Retesting *(Ongoing)*

Now that remediation and retesting is over, you should make process and policy changes to avoid future vulnerabilities.

Develop an improvement plan by considering these questions:

- How can we make our environment a little more secure every time?

- Do we need additional training for our developers and network engineers?

- Do they have the resources they need to be successful?

Assess your experience for next year's pentest:

- Did you have enough time to get everything done?

- Re-evaluate your timeline

Plan a date for next year's pentest

Ensure continued maintenance

- Regular updates

- Port scans

- App scans

- Incorporate new security practices